

पुणे
स्मार्ट सिटी
डेव्हलपमेंट
कॉर्पोरेशन लिमिटेड



PUNE
SMART CITY
DEVELOPMENT
CORPORATION LTD.

Expression of Interest

for

“Selection of System Integrator for
Vehicle Tracking Solution for PMC Vehicles”

EOI Notification No.: PSCDCL/VTS/24/2018

Issued By:

CEO

Pune Smart City Development Corporation Limited

Dated: 12th Sep. 2018

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Glossary

| | |
|----------------|-------------------------------------|
| PMC | Pune Municipal Corporation |
| EoI | Expression of Interest |
| GPS | Global Positioning System |
| GoI | Government of India |
| GoM | Government of Maharashtra |
| IT | Information Technology |
| O&M | Operation & Maintenance |
| PQ | Pre-Qualification |
| PSCDCL | Pune Smart City Development Limited |
| QoS | Quality of Service |
| SCOC | Smart City Operations Centre |
| VTS | Vehicle Tracking System |
| COTS | Commercial off-the-shelf |

Notice Inviting Expression of Interest for

“Selection of System Integrator for Vehicle Tracking Solution for Pune Municipal Corporation (PMC) vehicles”

[PSCDCL / VTS / 24]

This EOI Document is being published by the Pune Smart City Development Corporation Limited (PSCDCL) for the project of “Vehicle Tracking Solutions” which is an initiative to improve the efficiency of fleet of vehicles owned & contracted by PMC (“**Project**”). PSCDCL is proposing to select a private sector partner to procure, supply and implementation of the VTS System.

The purpose of this EOI Document is to provide interested parties with the relevant information regarding the project and understand the scope of the Project and invite feedback from interested private sector Applicants. The Applicants are advised to study this EOI Document carefully before submitting their feedback & suggestions in response to the EOI Notice. The feedback & suggestions received as part of the response from the industry participants to this EOI Document may or may not be used towards formalizing the RFP for the Project which is proposed to be released in the near future. This EOI document is not transferable. No pre-qualification of Applicants is proposed to be done as part of this EOI.

| | |
|--|--|
| Last date (deadline) for EOI response | Feedback & suggestions in response to the EOI, should be submitted through: a. Email to: cko@punsmartcity.in Latest by 03/10/2018 up to 15:00 hrs. b. Hard copy of the responses (duly signed) through Speed Post or Courier or in person. Latest by 03/10/2018 up to 15:00 hrs. at the following address: CEO PSCDCL A-204, ICC Trade Towers Senapati Bapat Marg Pune |
| EOI Meeting date | 26 th Sep. 2018, 15:00 hrs. |

| | |
|--------------------------------|---|
| | at <u>ICC Trade Towers, S.B. Road, Pune</u> |
| Website to download EoI | https://pmc.gov.in |

The right to accept/reject any or all the responses received is reserved with PSCDCL without assigning any reason thereof.

Pune Smart City Development Corporation Limited

1.Disclaimer

This Expression of Interest (EoI) contains brief information about the Project and will assist PSCDCL to formulate the RFP for the process of selecting the Applicants during the RFP stage. This EoI is not an agreement or an offer by the purchaser/authority to the applicants or any other person.

The purpose of the document is to provide the applicants with information to assist the formulation of their EoI application or response to EoI Document (“the Application”).

The information provided in this EoI Document, to the Applicants is on a wide range of matters, some of which depends upon interpretation of law. The Applicants may conduct their own independent assessment, site visit, investigations and analysis and check the reliability, accuracy and completeness of the information at their end and obtain independent advice from relevant sources as required before submission of their EoI application.

Furthermore, the information provided in this EOI Document is not intended to be an exhaustive account of statutory or commercial requirements and should not be regarded as a complete or authoritative statement of law. PSCDCL along with its directors, associates, employees, affiliates, consultants make no representation or warranty and shall have no liability to any person including the Applicant under any law, statute or by any rule and/or regulation made thereunder, tort, equity, principles of restitution, unjust enrichment or otherwise for any loss, damage, costs or expenses which may arise from or be incurred or suffered on account of anything contained in this EOI Document or otherwise, including the accuracy, adequacy, correctness, reliability or completeness of the EOI Document any assessment, assumption, statement or information contained therein or deemed to form part of this EOI Document or arising in anyway in this subject.

Pune Smart City Development Corporation Limited (PSCDCL) or any of its employees or advisors / representatives shall incur no liability under any law, statute, rules or regulations as to the accuracy or completeness of the EoI Document. PSCDCL reserves the right to change any or all conditions/ information set in this EoI Document by way of revision, deletion, updation or annulment through issuance of appropriate addendum as the organisation may deem fit without assigning any reason thereof.

PSCDCL will not entertain or be liable for any claim for costs and expenses in relation to the preparation of the EoI applications to be submitted in terms of this EoI Document.

The information contained in this EOI Document or subsequently provided to the prospective Applicants, whether verbally or in documentary or any other form by or on behalf of PSCDCL or any of its employees or advisers, shall be considered confidential and is not to be reproduced/ adopted/ displayed for any purpose whatsoever.

This EOI Document is for informative purpose only and does not imply that PSCDCL is bound to select or short list pre-qualified applications for the RFP stage or to appoint the Applicant for the Project as the case maybe and PSCDCL further reserves its absolute right and discretion to terminate the process at any time without assigning any reasons or explanations thereof.

2. Introduction and Background

2.1 About Pune

Pune is the seventh-most populous city in India and the second largest in the state of Maharashtra. It was known as Punya Nagari in earlier times. It is situated 560 meters (1,837 feet) above sea level on the Deccan plateau, on the right bank of the Mutha River. Pune city is the administrative headquarters of Pune district and was once the center of power of the Maratha Empire.

Further, the city is also known for manufacturing and automobiles, as well as government and private sector research institutes for information technology (IT) education, management and training that attract migrants, students, and professionals from India, South East Asia, the Middle East, and Africa.

Pune is also one of the fastest growing cities in the Asia-Pacific region. Pune is considered as the cultural capital of Maharashtra and is also popularly known as ‘Queen of the Deccan’. Pune is also known as ‘Oxford of the East’ and has one of the oldest universities and colleges in India such as, University of Pune, College of Engineering Pune and Fergusson College.

Pune is one of India’s major industrial hubs. The city is known for its automobile and Information Technology (IT) industries. Other major manufacturing sectors in Pune are steel, equipment, biotechnology and pharmaceutical. Pune is one of the most populous districts in Maharashtra and ranks third in the state in terms of population.

2.2 About Pune Smart City

The Pune Smart City proposal was selected for priority financing under Smart City Mission by Ministry of Urban Development (MoUD), Government of India. Thereafter, the Pune Municipal Corporation (PMC) has incorporated a Special Purpose Vehicle (SPV) company called PUNE Smart City Development Corporation Limited (PSCDCL), under the Companies Act 2013, solely for the purpose of implementing the Smart City proposal. PSCDCL will be fully owned by the Government with equal shareholding from the Government of Maharashtra and the Pune Municipal Corporation (PMC).

The Board of PSCDCL is chaired by Principal Secretary, Urban Development Department, Government of Maharashtra with board comprising of elected representatives of PMC, representatives of the state and central government as well as independent directors

PSCDCL has received the funding from Government of India and PMC/ the State Government for implementing the smart city projects. Given the wide range of technical and sector specific expertise required to implement the smart city projects, PSCDCL shall be supported by a team of consultants for strategic, technical and project management support.

2.3 About Pune Municipal Corporation (PMC)

The Pune Municipal Corporation (PMC) was established on 15 February 1950. The PMC is in charge of the civic needs and infrastructure of the metropolis. Pune is divided into 15 municipal wards and about 76 electoral wards/prabhags.

Since 1950, the Pune Municipal Corporation is administrating the city and serving citizens. Pune Municipal Corporation has taken an initiative for implementing e-Governance. Success of e-governance depends on use of Information Technology in mobilization of Government resources and utilization of these scarce resources with an aim of providing a better service.

Pune Municipal Corporation stood second in the Smart Cities Challenge launched by Ministry of Urban Development, Govt. of India. Under Smart City Initiative, PMC is committed for making governance citizen-friendly and cost effective by delivering services electronically to ensure accountability and transparency, especially using mobiles to reduce cost of services and providing services to its stakeholders without having to go to municipal offices; and by facilitating e-groups to listen to citizens and obtain feedback and use online monitoring of programs and activities with the aid of cyber tour of worksites.

2.4 About Pune VTS Project

PMC is operating more than 1200 vehicles in the city for collecting waste, clearing the city drainage, providing water for drinking and gardening, street light maintenance, evacuation and loading, fire safety, health safety and other official purposes. Out of these 1200 + vehicles, GPS devices are installed on around 550 vehicles used for Solid Waste Management.

PMC, through PSCDCL, intends to implement an end-to-end Vehicle Tracking Solution (VTS) for its fleet of 1200 + vehicles (owned and contract vehicles) to track the location, speed, position, fuel consumption, direction and cost of travel. With the system, PMC should be able to assess the parameters like real-time vehicle position, routes taken, driving behaviour, fuel and related costs, mileage, productivity, improve on these parameters and quickly respond to citizens/stakeholder query on respective deliverables.

Project intends to use state-of-the-art technologies involved in the solution such as GPS, fuel sensor, implementation and integration with existing systems like electronic weighbridge system, Enterprise GIS, Finance ERP, Grievance systems (PMC Care, Aaple Sarkar etc.), Smart City Operations Centre etc. to improve ground level mechanisms and provide efficiency to the departments in waste collection process, public safety process and other official commute processes.

This Project is planned to cover all the 1200 + owned and contract vehicles in operation within the city in various wards of PMC (the number of vehicles are subject to increase in future). The VTS will encompass Automatic Vehicle Location Information System, route planning and optimization, providing data for integration with Operation Center and generation of MIS reports.

In this regard PSCDCL intends to engage System Integrator who can deploy the Vehicle Tracking Solution at Smart City Operation centre and should cover all PMC vehicles (including contractor vehicles) which are currently being used by individual PMC departments to deliver various citizen services.

2.5 Objectives of Pune VTS Project

The main purpose of this initiative is to track the fleet of vehicles registered under PMC and other city departments to ensure the timely service delivery to the citizens of Pune. The vehicles include the solid waste collection & disposal vehicles, water tankers, ambulance, squad vans, police vehicles etc.

In addition to real-time tracking of vehicles by using GPS Tracking System, PSCDCL intends to improve and smoothen the ground level operations for waste collection, disposal and distribution of water through water tankers and transport of other vehicles used for citizen services by integrating the city departments existing application like electronic weighbridge system, Enterprise GIS, Grievance systems (PMC Care, Aaple Sarkar etc.) Finance ERP, Smart City Operations Centre etc. to manage the entire end-to-end work flow.

The project objectives are:

- 1) To keep an eye and record precise facts about how the vehicle is being utilized.
- 2) Enhance the productivity of the vehicle fleet by tracking their location, speed and stoppages.
- 3) Save on operational cost and slippages by tracking fuel usage and prevent fuel theft.
- 4) Bring efficiency in the existing logistics by suggesting best possible routes, dynamic route assignment and real-time route updates.
- 5) Enhance departmental efficiency by managing end-to-end workflow.
- 6) Help faster decision making by real time integration with central command center and real-time alerts/updates.

2.6 Description of EOI Process

During the stage of Expression of Interest (EOI) is undertaken as an industry consultation where, credible Applicants having requisite capability for undertaking the Scope of Work have been requested to provide their inputs on the key parameters to be adopted by PSCDCL as it determines the terms and conditions of the RFP. Pre-qualification of Applicants will not be done at this stage.

Subsequent to this EOI and the finalization of the Project details, PSCDCL proposes to issue a Request for Proposal (RFP) for selection of interested Applicants for the Project.

PSCDCL does not, in any manner whatsoever, warrant or represent that it will subsequently proceed to release the RFP and/or initiate the RFP Stage of the Bidding Process. Accordingly, the information regarding the RFP made in this EOI are indicative in nature and purely informative, and non-binding.

PSCDCL in its absolute discretion may cancel, change, alter or replace the RFP Stage of the Bidding Process and/or the Project itself, without according any reason thereof or providing any prior notice to any person including the Applicants.

3. General Information

3.1 Eligible Applicants

The applicants eligible for participating in the EOI process shall be any of the following categories:

The applicant shall be legally competent to enter into contract as per prevailing Indian law and must be either: (i) a company incorporated under the Companies act 1956 (as amended or re-enacted and restated including the Companies act 2013 as notified from time to time), (Copy of certificate of incorporation, Memorandum and Article of the Association of the applicant should be submitted) or (ii) Partnership firm registered the Indian Partnership Act (copy of registered partnership deed should be submitted) or a (iii) registered proprietary firm (Copy of sales tax/service tax registration, EPF registration, Shop registration certificate, as may be applicable, should be submitted).

Foreign firms constituted under Applicable Law of any other country are also permitted to participate in submission (Copy of Certificate of Incorporation, Memorandum and Article of the association or constituting legal documents of the applicant should be submitted). In case of foreign Company, incorporation documents other than English language should be accompanied by a notarized translation to English language only.

The term applicant used hereinafter would therefore apply to both the above-mentioned categories. Any entity, which has earlier been barred by PSCDCL from participating in its projects, would not be eligible to submit an EOI individually, if such bar subsists as on the last date of submission of EOI.

4. Information to be provided in the EOI

| # | Information | Document Proof | Refer Format |
|-----|---|---|--------------|
| PQ1 | The Applicant must be (i) registered company and should be operational at least for last 5 years as on date of bid submission; and (ii) shall be certified as CMMI Level 3 / ISO 9000-3 company or any other equivalent certificate (<i>if any</i>). | <ul style="list-style-type: none"> • Certificate of Incorporation / Registration Certificate • Copy of the relevant certification | A_2 |
| PQ2 | The Applicant should have – (i) an average annual turnover of INR 10 crore for last 3 audited financial years (2015-16, 2016-17, 2017-18). (ii) a positive net worth of INR 7.5 crore , as on the last date of latest audited financial year. | <ul style="list-style-type: none"> • Certificate from the Statutory auditor/company secretary specifying the Applicant's net worth • Certificate from the chartered accountant specifying the Applicant's turnover. • Copy of the Audited financial statement for last 3 financial years | A 3 |
| PQ3 | The Applicant must have experience of executing similar project (at least 3 out of 5 components mentioned) worth 1 Cr in India/abroad in government /public sector in last 3 years. Note: Definition of similar project' is as follows: Project which involves following components: | Copy of work completed certificate | A 4 |

| | | | |
|------|--|---|-----|
| | <ol style="list-style-type: none"> 1. Management and tracking of vehicle fleet through the deployment of Active/Passive GPS Device on Vehicles (minimum 200 vehicles) 2. Fuel tracking for vehicles including the installed GPS devices 3. Setting up and integration of Vehicle Tracking solution with Central command and control centre. 4. Bill calculation in terms of number of trips / kms travelled by the vehicles (minimum 200 vehicles) 5. Integration of Vehicle Tracking solution (VTS) solution with weighbridge systems. | | |
| PQ 4 | The Applicants will have to submit a Concept Note and propose various possible solutions and cost. For more details, please refer Section 4.1. | A detailed concept note substantiating options and solutions. | A_5 |
| PQ5 | As on date of submission of the proposal, the Applicant should not be blacklisted by Central / State Governments in India. | Declaration letter by the Applicant as per the format given in the EOI document | A 6 |
| PQ6 | Authorised Signatory | Power of Attorney for Authorised Signatory of the Applicant | A_7 |

Note:

- i. The applications must be signed by duly authorized person holding the power of attorney in case of limited company or corporation. (A certified copy of the Power of Attorney shall accompany the application).

5. Instructions to Applicants

The PSCDCL, invites reputed firms to submit their proposals for the Project for PMC in accordance with conditions and manner prescribed in this Expression of Interest (EOI) document.

No Applicant shall submit more than one EOI.

5.1 Concept Note:

The participants of the EoI are required to submit a Concept Note regarding their understanding of the project scope and their proposal, which is in best interest of PSCDCL.

The Applicants should cover the following aspects in the Concept Note:

- Solution architecture w.r.t their understanding of the project scope
- Solution details – platform, operating system, database, integration platform details
- Technical architecture including deployment architecture (cloud/on-premise/hybrid)
- Approach & Methodology to implement the solution
- Functional compliance of the proposed COTS solution
- Additional features of the COTS solution with unique value proposition of the solution
- Indicative BOM and technical specifications of the VTS components
- Maintenance and on-site support arrangement during operations
- Compliance with Security, scalability, manageability, performance parameters
- Proposed KPI's and acceptance criteria for the VTS solution
- Connectivity requirements
- Power requirements
- Compliances & certifications
- Case Studies of other client implementations of VTS solution
- Learnings from other client implementations

5.2 Availing Bid Documents

The EoI Document can be downloaded from the website <https://pmc.gov.in> up to the date and time mentioned in the EoI Notice. PSCDCL / VTS / 24 / 2018.

5.3 Completeness of the EOI Response

Applicants are advised to study all instructions, forms, terms, requirements and other information in the EOI documents carefully. Submission of bid shall be deemed to have been done after careful study and examination of the EOI document with full understanding of its implications. The response to this EOI should be full and complete in all respects. Failure to furnish all information required by the EOI document or submission of a proposal not substantially responsive to the EOI documents in every respect will be at the applicant's risk and may result in rejection of their proposal.

5.4 EOI Preparation Cost

The Applicant is responsible for all costs incurred in connection with participation in this process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of proposal, in providing any additional information required by PSCDCL to facilitate the evaluation process. PSCDCL will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process. All materials submitted by the applicant shall become the property of the PSCDCL and may be returned at its sole discretion.

5.5 Sealing, marking and submission of EOI

The Application should be submitted through Email and Postal Speed Post or Courier or in person, so as to reach on or before 03/10/2018 up to 15:00 hrs. **PSCDCL won't be responsible for any postal delays.**

The Application including supporting documents and its duplicate shall be typed or written in indelible ink and the Applicant shall initial each page. All the alterations,

omissions, additions, or any other amendments made to the Applicant shall be initialed by the Authorised Signatory of the Applicant.

Applicant should fill in information in prescribed formats for qualification as mentioned in the EOI Document.

The Applicants shall submit all supporting documents in the format as prescribed in the EOI Document along with suggested documentary evidence with the Application.

The Application shall include the following requisite documents and necessary supporting documents as specified in Appendix A to G, each envelope should contain –

- a. Cover Letter as per format A_1 (Please Refer Section 7.1);
- b. Details of Applicant as per format A_2 (Please Refer Section 7.2);
- c. Details of Turnover and Net worth as per format A_3 (Please Refer Section 7.3);
- d. Details of Relevant Experience as per format A_4 (Please Refer Section 7.4);
- e. Concept Note as per format A_5 (Please Refer Section 7.5)
- f. Declaration – No Blacklisting as per format A_6 (Please Refer Section 7.6)
- g. Power of Attorney for Signing the EOI as per format A_7 (Please Refer Section 7.7)

Applicants should submit two copies of the EoI including the information requested in the prescribed formats along with any supporting documents. The original copy shall be sealed in an envelope marked “Original” and the other copy in an envelope marked “Copy”. Both these envelopes shall then be enclosed in an outer envelope marked “*EoI for Selection of System Integrator for Vehicle Tracking Solution for Pune Municipal Corporation (PMC) vehicles*”. Along with the hardcopies, a soft copy in PDF format shall also be submitted through a CD / DVD / USB flash drive.

If the envelopes are not sealed and marked as instructed above, the PSCDCL assumes no responsibility for the misplacement or premature opening of the contents of the application and consequent losses, if any suffered by the applicant.

In the event of any discrepancy between the original and CD/Pen Drive/USB stick, the original shall prevail.

Each page of the above should bear the initials of the Applicant along with the seal of the Applicant in token of confirmation of having understood the contents

The submission should be signed by an authorized person holding the power of attorney in case of limited company or corporation. A certified copy of the power of attorney shall accompany the EoI. Proposals must be direct, concise, and complete. PSCDCL will evaluate applicant's proposal based on its clarity and completeness of its response to the requirements of the project as outlined in this EOI. The CEO, PSCDCL reserves the right to accept or reject any or all the proposals without assigning any reason.

5.6 Late Proposal for EoI

EOI response not reaching on or before the specified time limit will not be accepted.

5.7 Language of Bids

The responses prepared by the applicant and all correspondence and documents relating to the bids exchanged by the applicant and PSCDCL, shall be written in English language. Any printed literature furnished by the applicant in another language shall be accompanied by an English translation, in which case, for purposes of interpretation of the bid, the English translation shall govern.

If any supporting documents submitted are in any language other than English, translation of the same in English language is to be duly attested by the applicant.

Details to be mentioned exactly on sealed envelope

| Details to be mentioned exactly on sealed envelope | |
|---|---|
| <u>EoI Details</u> | <u>To,</u> |
| Notice No.: PSCDCL / VTS / 24 / 2018 EoI for "Selection of System Integrator for Vehicle Tracking Solution for Pune Municipal Corporation (PMC) vehicles" | CEO, Pune Smart City Development Corporation Limited, Pune |
| Last date of Submission: On or before 03/10/2018 | |

5.8 Evaluation of EoI

All the information provided will be evaluated for the purpose of inclusion in the RFP. PSCDCL may optionally invite applicants to make a presentation as part of the evaluation. The feedback received will be evaluated may be considered for designing the actual RFP.

PSCDCL may require verbal/written clarifications from the applicants to clarify ambiguities and uncertainties arising out of the information submitted.

5.9 Key Suggestions

Workable comments and suggestions on the Scope of Work of this EoI that could overall improve the quality/effectiveness of this project shall be considered by PSCDCL at his own discretion.

5.10 Right to extend the validity of EoI Document

PSCDCL in its absolute discretion and prerogative may extend the validity of the EoI submitted by the Applicants by according proper reasons thereof.

5.11 No obligation to issue of RFP

PSCDCL shall be under no obligation to issue a Request for Proposal (RFP) for the Project described in this EoI Document.

5.12 Right to cancel the EOI Process

PSCDCL may cancel this EOI process at any stage without assigning any reasons whatsoever and will not be liable to compensate any applicant on any grounds whatsoever. The applicants shall not be entitled to refund of cost of documents or other costs in case the EOI is cancelled for whatsoever reason or without assigning any reason.

6. Scope of Work

6.1 Indicative Scope of Work for System Integrator for VTS solution:

The project will be done in phases with first phase including vehicles from 1-2 departments and setup of the centralized CCC software. Subsequent phases would include addition of vehicles from other local departments (like Police, PMPML etc.) into the system.

The details below cover the proposed scope of work for the SI to be engaged. The scope will be fully elaborated during the RFP stage:

1. Design, configure, customize and deploy centralized Vehicle Tracking solution (VTS) COTS (Commercial off-the-shelf) solution with the following features:
 - a. Real-time tracking
 - b. Alerts & Notifications
 - c. Route Replay
 - d. Dynamic Route Planning
 - e. Geocode & Geofence
 - f. Route Planning and Allocation
 - g. Dashboards
 - h. Driver Analytics
 - i. Fuel Tracking
2. Design, customize and deploy mobile application for remote tracking, route planning, department & driver specific dashboards & workflow management.
3. Assess, procure and deploy the hardware & software components, required for deployment of VTS solution & its mobile app.
4. Leverage the Smart City Operations Centre (SCOC) for Command and Control center and integration with SCOC platform to run the VTS operations.
5. Standardize the on-demand procurement of GPS devices (with SIM cards) as per the requirement of PMC and other departments like Police, PMPML etc. Applicant need to assess, procure GPS devices (with SIM cards) for more than 1200 vehicles. Manage

& repair the GPS devices during the entire project period. Applicant should quote per unit rate of GPS device that should be valid for the entire project duration.

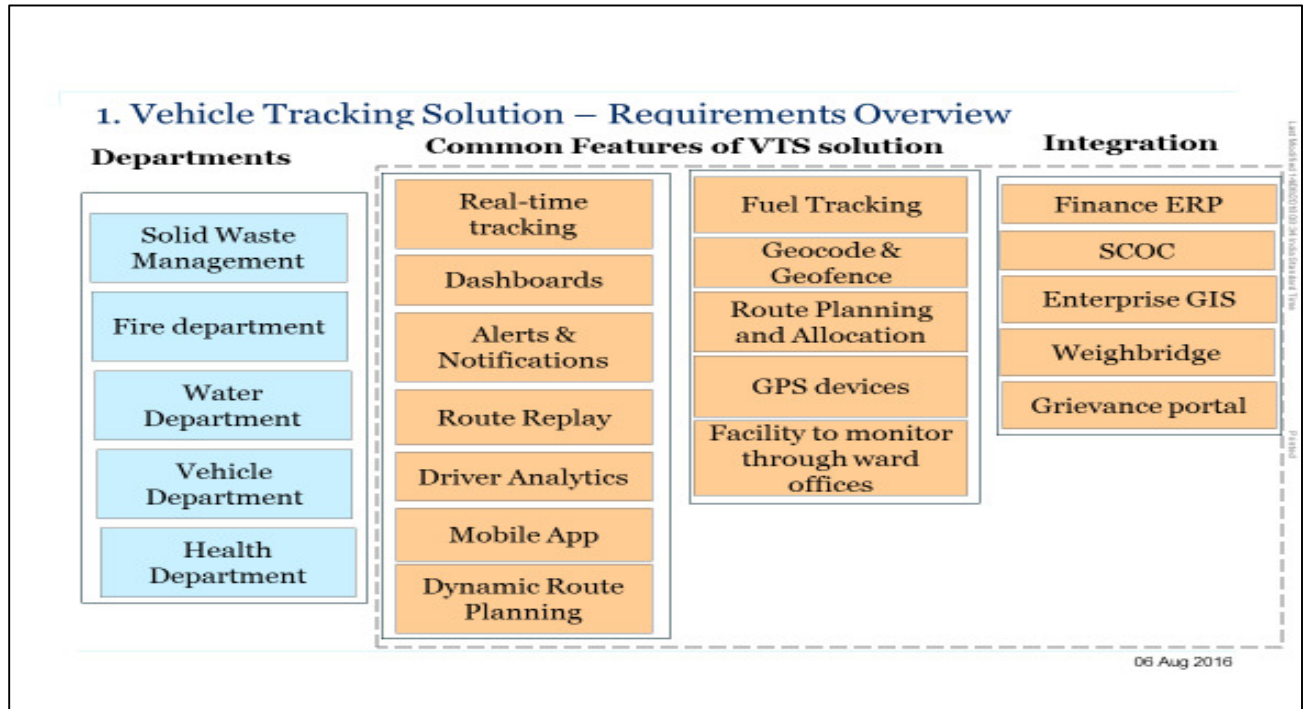
6. Integration of centralized VTS solution with internal & external systems like enterprise GIS, SCOC platform, Weighbridge systems, VTS mobile app, Grievance systems (PMC Care, Aaple Sarkar etc.), Finance ERP etc. to manage end-to-end workflow.
7. Integration of centralized VTS solution with GPS solution that will be deployed separately at all PMC vehicles (including contract vehicles)
8. Integration of centralized VTS solution and mobile app with all the communication channels including SMS, email, VMDs, social media channels for alert notifications.
9. Provide capacity building training to PMC staff to run the fleet operations for VTS solution which includes but not limited to workflow management, analytics dashboards and reporting, route planning etc.

6.2 Operations & Maintenance for 5 years:

1. System Integrator shall provide full operational, maintenance and technical support during the entire period of the contract.
2. System Integrator shall be responsible for managing and monitoring the complete architecture of the VTS solution including all hardware as well as software components during the entire period of contract.
3. All the VTS solution components shall be managed through a centralized management software. User credentials for MIS access to the software must be shared by SI with PSCDCL.
4. During the duration of the contract, the SI shall be required to conduct periodic checks of the deployed solution for performance, scalability, security, and further perform continuous monitoring of operations on behalf of PSCDCL. The SI shall be required to provide necessary information, support and MIS reports in the desired format to the PSCDCL and/or any of its authorized representatives to carry out forensic analysis at any point during the contract, if required.

5. The System Integrator will have to provide necessary trainings to the departmental staff identified by PSCDCL from time to time on usage of the system.
6. Operate & Maintain the entire VTS solution for 5 years (on-site support).

6.3 Functional Overview:



6.4 Solution Specifications

VTS solution should cover the following minimum modules:

I. Vehicle Tracking:

- a. Track and monitor the movement of vehicles on real time basis to enable communication of the arrival timings.
- b. Inform authority on the vehicle routes and arrival timings of vehicles at the stoppages, speed of vehicles, detours if any through SMS and web & mobile application.
- c. Effective management through a Decision Support system by collecting, collating and storing information on real time basis about the vehicle system and its effectiveness using communication technology.

- d. Maintain database and furnish information in the desired format and time interval as and when required by the department/authority.
- e. Ensure that the data is being stored into the built-in memory of the Vehicle Tracking Device system in case of no connectivity and this data is transferred to the server whenever the communication link is established.
- f. Enable encrypted Communication between GPS equipment and central system in order to eliminate possibility to use/abuse the data. Encryption should be done with SSL 256 bits.

II. Route replay:

- a. Record and furnish the details of vehicle movement in a specified period. The history should be available (and viewable) based on Zone Name, Ward Name, Vehicle Number, Date, Time, etc.. User of the central system should have access to view the over-speed done and the stoppages (as per pre-defined time for each collection point) taken by the vehicle
- b. Enable User to view Route statistics like vehicle type, speed violations, total alerts, trip time, idle time, maximum speed, average speed and distance travelled by the vehicle for that specified period of time in map view.

III. Driver analytics:

- a. Record driver's driving behavior and report cases of aggressive driving, device tampering, fuel theft, working hours, start- stop report etc. associated with that driver.

IV. Dashboards:

- a. Provide a dashboard and dynamic reporting system - The system is expected to provide following customized MIS report as per requirements of PMC over and above the reports deemed fit for increasing the working efficiency of the PMC department:
 - i) Live location of the vehicle.
 - ii) Trip calculation report
 - iii) Detailed activity report

- iv) Vehicle summary
- v) History report (showing path taken by the vehicle)
- vi) Start and stop report
- vii) Route deviation report
- viii) Working hour/efficiency reports
- ix) SLA breach report
- x) Payment report for Contractors (Based on weight/trips per vehicle per day)
- xi) Penalty report for Contractors (Based on weight/trips per vehicle per day)
- xii) The reports generated from system should be sufficient to calculate the performance of the entire system and penalties as prescribed.
- xiii) To receive daily summary reports as required by the client executives

- b. Enable client to receive daily summary reports as per the requirement stated - The reports should be sufficient to evaluate the performance of the entire system.

V. Fuel tracking:

- a. Track fuel consumption on daily, weekly, monthly, quarterly and yearly basis.
- b. Generate alert & notifications in case of any fuel theft.
- c. Calculate the fuel savings (comparative analysis) of PMC / contract vehicles on weekly, monthly, quarterly basis w.r.t. individual ward / department.
- d. Tracking of other operational parameters like tire pressure, hydraulics predict failures, receive alerts for operational failures etc.

VI. Mobile App:

- a) Support mobile devices and provide functionality of real time vehicle tracking, manager dashboard & reports, , remote tracking, route planning, driver specific dashboards & workflow management etc.

VII. Third party integration requirements:

- a) The VTS application should have the capability to be integrated with following:
 - i) Finance module of the ERP application wherein, the details of the payment made to the contract vehicles will be posted in the ERP.
 - ii) Water supply application to reconcile the data of number of trips by the water tanker with the revenue collected as shown in the water supply software.
 - iii) Smart city operation center (SCOC) to have bird's eye view of the real-time vehicle monitoring of PMC.
 - iv) Four grievance addressing systems (PMC Care, Swachh, Aaple Sarkar, PMC grievance management system etc.)
 - v) Existing electronic Weighbridge system at the ramps to feed in the data of the weight carried by the vehicle along with other details like vehicle number, vehicle type etc. Based on these details trip calculation should be done and payment report be calculated for respective vehicle type.
 - vi) Attendance system of the PMC departments to manage their workflow.
 - vii) Any other system identified by PMC/PSCDCL during the contract period.

VIII. Other Integration System:

- a) Ensure that the GPS data from the PMC as well as the contract vehicles is integrated with the VTS solution.
- b) The PMC contract vehicles will be fit with the GPS devices as per the required specifications. The supply, installation, integration and maintenance of these devices will be the onus of the SI.

IX. Alerts & notifications:

- a. Receive notifications and send out SMS alerts on the configured mobile numbers in case of:

- i) Tampering of any equipment, component of vehicle tracking system and fuel theft.
 - ii) Deviation of vehicle from pre-defined routes or excess stoppage of vehicle beyond a specified time duration.
 - iii) Vehicle is over speeding or being used after official hours.
- b. Record and display the alerts in the application as a part of the notifications and reports.

X. Real-Time tracking:

- a. Track and monitor vehicle details over map - display map/map layers showing real time vehicle position, route traversed by the vehicle, set destinations for the vehicles, assigning dynamic routes for the vehicles, route replay.
- b. Track each and every vehicle carrying the garbage from Source to destination - tracking should be real time and web based. Entire set of applications and their features should allow secure web based online access to obtain real time information. The secure access should be provided through popular browser interfaces at a central control and command center (SCOC).
- c. Provide the functionality of auto –refresh rate of 30 seconds or less.
- d. Provide the functionality to detect nearest location of ramps, transfer station, other vehicles for the purpose of directing the vehicle to the nearest destination.
- e. Enable admin to set/assign routes, areas, and /or destinations to a vehicle and configure alerts in case the vehicle does not adhere to the set routes/areas/destinations.
- f. Option to see the satellite and street view of the map.

XI. Admin:

- a. Enable admin to add, edit and delete the user. The admin should be able to control the information to be viewed by the user.

- b. Enable admin to assign vehicles to the driver of the specific ward or designated by the concerned authority.
- c. Provide a master management feature to maintain master such as Vehicle, Route, POIs, Geo-points, Geo-fence, GPS device-Vehicle mapping, etc.

XII. Dynamic Route planning requirements:

- a. Create and assign routes based on the landmarks and stoppages with option to assign single or multiple vehicles on the route created.
- b. Provide option to optimize existing routes and save best routes for future references.
- c. Provide features of geo-fencing and route replay.

6.5 Proof of Concept (POC)

PSCDCL may ask the selected agency to deploy the VTS system on trial basis for duration of 3-6 months for the selected 15-20 PMC owned vehicles of (SWM department / Water department or any other department) without any cost liability to PSCDCL/PMC.

Report on the following criteria will have to be submitted at the end of the trial run.

- a) Efficiency – fuel consumption savings before and after deployment of solution
- b) Functional compliance – as per listed requirements
- c) Ease of operations – based on user feedback (department, registered vendors or other stake holders)

It will be responsibility of the SI to manage the supply, installation, testing, commissioning of proposed solution at its own cost and risk during the POC period. The exact dates for the POC will be communicated separately.

6.5.1.Obligations of PMC and PSCDCL during the POC period

- a) Provide access to infrastructure for POC scope and issue necessary permissions
- b) Operate the systems including allocating support staff for the operations

- c) Approve design documents as applicable
- d) Provide integration details of existing equipment and IT systems
- e) Provide permission to integrate the equipment as applicable
- f) Provide power supply at trial run locations including recurring charges

6.5.2. Obligations of selected agency during the POC

- a) Design, procure, develop, configure & implement VTS solution including required software & hardware components for 3 months
- b) Deploy the VTS solution on cloud / data center
- c) Design, deployment documentation as per PSCDCL requirements
- d) On-site training to PMC, PSCDCL staff
- e) On-site support in operations (need based)
- f) Host, retain entire data operate the systems including allocating support staff for the operations.
- g) Retain data securely and handover periodically and at the end of trial run.

6.6 Proposed Timelines

| #A | Key Deliverables | Timelines |
|----------|--|------------------|
| 1 | Project Charter | T+10 days |
| | Stakeholder responsibility assignment (RACI) matrix | |
| | Mobilization of resources & Inception report | |
| 2 | Detailed Project Management Plan | T+25 days |
| | Requirement Gathering Analysis & final FRS report | |
| | Technical system & network architecture design report & final SRS document | |

| | | |
|-----------|---|--------------------|
| | Plan for Supply, Installation and Configuration of devices for VTS solution | |
| 3 | Supply, installation and configuration of devices for VTS solution | T+75 days |
| 4 | Implementation & Unit testing | T+125 days |
| 5 | System Integration Testing | T+145 days |
| 6 | User Acceptance Testing | T+160 days |
| 7 | Training and capacity building for the relevant PSCDCL/PMC officials | T+180 days |
| 8 | Final Acceptance Testing | T+190 days |
| 9 | Go Live (T1) | T+210 days |
| 10 | O&M period | T1+ 5 years |

7. Specific format for the applicants to fill in the details

7.1 Format A_1: Cover Letter

[To be printed on the Applicant company's/ Lead Member's letterhead and signed by its Authorized signatory]

dd/mm/yyyy

To,
The CEO PSCDCL,
2nd Floor, ICC Tower "A",
Senapati Bapat Road,
Pune - 411 016,
(Maharashtra), India

Sub.: Submission towards Expression of Interest ("EOI") for "Selection of System Integrator for Vehicle Tracking Solutions for Pune Municipal Corporation (PMC) vehicles".

EOI Ref.: [•]

Dear Sir/ Madam,

Having examined the EOI, the receipt of which is hereby duly acknowledged, I/We offer to submit the EOI for the Project.

We agree and understand that this EOI is non-binding and non-committal. PSCDCL or its directors, employees, associates, affiliates or its agents shall not be liable to me/us for any liability arising directly or indirectly from our participation in the EOI Process.

We further agree, understand and fully comprehend that PSCDCL may in its absolute and exclusive discretion at any time change, alter, replace, remove and/or cancel any or all part of the EOI Document or the Project. PSCDCL may also abandon, call-off, alter, replace, revise the Project. Furthermore, PSCDCL is under no obligation or compulsion in any manner whatsoever to release or publish the RFP, it may also change or replace or cancel any or all part of the bidding process.

We submit hereto my/our EOI as per the requirements and details specified in the EOI Document. I/We confirm that the information contained in these submissions or any part thereof, including the appendices, and other documents and instruments delivered or to be delivered to PSCDCL, are true, accurate, verifiable and complete. These submissions include all information necessary to ensure that the statements therein do not in whole or in part mislead PSCDCL in its EOI Process.

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading the EOI Process, I/we are liable to be disqualified from the EOI Process, if selected to do so.

We agree for unconditional acceptance of all the terms and conditions set out in the EOI Document and also agree to abide by this EOI for a period of 120 days from the

date of submission.

We agree that you are not bound to accept any EOI you may receive. I/We also agree that you reserve the right in absolute sense to reject all or any of the EOI received as per the EOI Document and Advertisement.

It is hereby confirmed that I/We am/are entitled to act on behalf of my/our firm and empowered to submit this document as well as such other documents, which may be required in this connection.

Signature of Authorized Signatory (with official stamp)

Vide Board Resolution dated [•]

Name of Authorised Signatory: [•]

Designation of Authorised Signatory: [•]

Address of the Applicant: [•]

Telephone & Fax of the Applicant: [•]

E-mail address of the Applicant: [•]

7.2 Format A_2: Details of Applicant

[To be printed on the Applicant company's/ Lead Member's letterhead and signed by its Authorized signatory]

To,

The CEO, PSCDCL,
2nd Floor, ICC Tower "A",
Senapati Bapat Road,
Pune - 411 016,
(Maharashtra), India

EOI Ref.: [•]

Dear Sir/ Madam,

Enclosed are the details of Applicant for participation in the EOI for "Selection of System Integrator for Vehicle Tracking Solutions for Pune Municipal Corporation (PMC) vehicles".

| Sr. No. | Particulars | Details |
|----------------|--|----------------|
| 1. | Name of the Applicant/ Lead Member along with all other members of the Consortium | |
| 2. | Type of Firm (Private Limited/ Public Limited company/ LLP/ Partnership/ HUF/ Foreign Incorporated Entity) | |
| 3. | Country of registered Office of the Applicant | |
| 4. | Address of registered office of the Applicant | |
| 5. | Company registration details/number | |
| 6. | Name and permanent address of all directors of the Firm | |
| 7. | Date of incorporation of the Firm | |

| | | |
|------------|---|--|
| 8. | GST registration number (mandatory for Indian Firms) | |
| 9. | Details of Certificate of CMMI Level 3 / ISO 9000-3 Company or any other equivalent certificate (<i>if any</i>) | |
| 10. | PAN (mandatory for Indian Firms) | |
| 11. | TAN (mandatory for Indian Firms) | |
| 12. | No. of years of operations in India (mandatory for Indian Firms) | |
| 13. | Authorized signatory name | |
| 14. | Authorized signatory designation | |
| 15. | Authorized signatory contact details | |

[In case the Applicant is a Consortium then please mention details in the aforesaid details of the Lead Member and all the Consortium Members by making separate tables]

The below mentioned annexures (as applicable) have been attached for the Applicant to further demonstrate that that the Applicant has been operational at least for five (5) years preceding the EOI Due Date:

- a) Certificate of Incorporation/Registration
- b) Memorandum and Articles of Association
- c) Certificate as per Shops & Establishments Act
- d) GST Registration Certificate (mandatory for Indian Firms)
- e) PAN Card (mandatory for Indian Firms)
- f) Consortium Agreement
- g) Partnership Deed/ LL.P. Agreement

In case the Applicant is a Consortium then please enclose all the aforementioned supporting documents of the Lead Member and the Consortium Members.

Yours sincerely,

Signature of Authorized Signatory (with official stamp)

Vide Board Resolution dated [•]

Name of Authorised Signatory: [•]

Designation of Authorised Signatory: [•]

Address of the Applicant: [•]

Telephone & Fax of the Applicant: [•]

E-mail address of the Applicant: [•]

7.3 Format A_3: Details of Turnover and Net worth

[To be printed on the Applicant company's letterhead and signed by its Authorized signatory]

dd/mm/yyyy

To,
The CEO, PSCDCL,
2nd Floor, ICC Tower "A",
Senapati Bapat Road,
Pune - 411 016,
(Maharashtra), India

EOI Ref.: [•]

Dear Sir/ Madam,

I/We have carefully gone through the conditions of eligibility contained in the EOI Document for "Selection of System Integrator for Vehicle Tracking Solutions for Pune Municipal Corporation (PMC) vehicles".

I/We hereby declare that below are the details regarding the turnover and networth.

1. Turnover for the last 3 (Three) years.

| Sr. No. | Financial Year | Turnover of the firm (INR) |
|----------------|-----------------------|-----------------------------------|
| 1 | 2015-16 | |
| 2 | 2016-17 | |
| 3 | 2017-18 | |

2. Net worth as on the last date of latest audited financial year.

| Sr. No. | Financial Year | Net Worth of the firm * (INR) |
|---------|----------------|----------------------------------|
| 1 | | |

* Net Worth shall mean (Subscribed and Paid-up Equity + Reserves) less (Revaluation reserves + miscellaneous expenditure not written off + reserves not available for distribution to equity shareholders).

*A photo copy of CA-certified net worth statement must be produced as an evidence to the submission.

* In case of consortium all members shall provide details mentioned in above table 1 and 2

3. I/We further certify that I/We am/are authorized officer to my/our firm to make this declaration.

Yours Sincerely,

Applicant's Name:

Authorised Signature:

Note: Applicants are required to either provide a certificate from the statutory auditor certifying the above net worth or provide a self-attested document duly signed by the Authorised Signatory. The Applicants can also provide Turnover and / or Net worth Statement for FY 2017-18.

7.5 Format A_4: Details of relevant experience

[To be printed on the Applicant company's/ Lead Member's letterhead and signed by its Authorized signatory]

dd/mm/yyyy

To,

The CEO, PSCDCL,
2nd Floor, ICC Tower "A",
Senapati Bapat Road,
Pune - 411 016,
(Maharashtra), India

EOI Ref.: [•]

Dear Sir/ Madam,

We have carefully gone through the requirements and conditions of eligibility specified in the EOI Document for EOI for "Selection of System Integrator for Vehicle Tracking Solutions for Pune Municipal Corporation (PMC) vehicles".

| Description | Details |
|---|----------------|
| General Information | |
| Client for which the project was executed | |
| Name of the client contact person(s) | |
| Designation of client contact person(s) | |
| Contact details of the client contact person(s) | |
| Project Details | |
| Date of the Project | |
| Duration of the project (number of months, start date, completion date, current status) | |
| Supporting Documents: (Work Order/ Definitive Agreement/ Letter of | |

| | |
|----------------------------|--|
| Award or Letter of Intent) | |
|----------------------------|--|

[In case the Applicant is a Consortium then please mention details in the aforesaid details of the Lead Member and all the Consortium Members by making separate tables]

I/We hereby declare that below are the details regarding the Projects that have been taken up and successfully demonstrated by my/our Firm.

I /We further certify that I/We am/are authorized officer in my/our Firm to make this declaration.

Yours sincerely,

Signature of Authorized Signatory (with official stamp)

Vide Board Resolution dated [•]

Name of Authorised Signatory: [•]

Designation of Authorised Signatory: [•]

Address of the Applicant: [•]

Telephone & Fax of the Applicant: [•]

E-mail address of the Applicant: [•]

7.6 Format A_5: Concept Note

[To be printed on each company's letterhead and signed by Authorized signatory]

dd/mm/yyyy

To,

The CEO PSCDCL,
2nd Floor, PMC Main Building,
Shivaji Nagar,
Pune - 411 005,
(Maharashtra), India

EOI Ref. No: [•]

Dear Sir/ Madam,

In response to the EOI Document Reference No. [•]/2017 dated [•] for “Selection of System Integrator for Vehicle Tracking Solutions for Pune Municipal Corporation (PMC) vehicles”, we have prepared a concept note which is attached herewith. The concept note is prepared in good faith, after understanding the EOI document and requirements of PSCDCL.

Name of the Applicant: [•]

Authorized Signatory: [•]

Seal of the Organization: [•]

Business Address: [•]

Date: [•]

Place: [•]

Vide Board Resolution dated [•]

Note: The concept note to be prepared and submitted by the Applicants should include the details listed in Section 4.1 of the EOI Document. Please ensure that all requirements mentioned in the EOI Document with respect to the concept note are to be fully covered.

7.7 Format A_6: Declaration – No Blacklisting

[To be printed on the Applicant company's/ Lead Member's letterhead and signed by its Authorized Signatory]

dd/mm/yyyy

To,
The CEO PSCDCL,
2nd Floor, ICC Tower “A”,
Senapati Bapat Road,
Pune - 411 016,
(Maharashtra), India

EOI Ref. No: [•]

Dear Sir/ Madam,

In response to the EOI Reference No. [•]/2018 dated [•] for EOI for “Selection of System Integrator for Vehicle Tracking Solutions for Pune Municipal Corporation (PMC) vehicles”, as an owner/ partner/ Director of [•], I/ We hereby declare that presently our firm [•] is having unblemished record and is not declared ineligible for corrupt and fraudulent practices either indefinitely or for a particular period of time by the Pune Municipal Corporation and/or the Government of India and/or any State Government in the last 3 (three) preceding financial years from 2017-18.

I/We further declare that presently our Firm (name of the Firm) is not blacklisted and not declared ineligible for reasons other than corrupt and fraudulent practices by any State/ Central Government/ PSU on the date of Application Submission.

If this declaration is found to be incorrect then without prejudice to any other action my/our application may be rejected and PSCDCL may take any other action that may deem fit to it.

Yours sincerely,

Signature of Authorized Signatory (with official stamp)

Vide Board Resolution dated [•]

Name of Authorised Signatory: [•]

Designation of Authorised Signatory: [•]

Address of the Applicant: [•]

Telephone & Fax of the Applicant: [•]

E-mail address of the Applicant: [•]

7.8 Format A_7: Power of Attorney for Signing the EOI:

[To be printed on Non-Judicial Stamp Paper of INR 500 and duly attested by notary public] [Please Note Stamp Duty payable for Power of Attorney in the State of Maharashtra as per the Maharashtra Stamp Act of 1958 is INR 500] [In case the Applicant is a Consortium, then each Consortium Member shall submit this Power of Attorney authorizing the authorized signatory of the Lead Member to submit the Application and by the Lead Member authorizing the authorized signatory of the Consortium Member to submit the Application]

EOI Ref.: [•]

KNOW ALL MEN BY THESE PRESENTS that the undersigned [name], [title] of [name of the Firm] (hereinafter referred to as the “**Firm**”), is lawfully authorised to represent and act on behalf of the Firm, whose registered address is [Firm’s address], and does hereby appoint [name], [title], of [firm] of [•], whose signature appears below, to be the true and lawful attorney, and authorised the said attorney to sign the EOI, related documents, conduct negotiations, sign any agreement related to the EOI, supporting documents and other documents as required under the EOI Document and other documents as requisitioned by PSCDCL and execute all the necessary matters related thereto, and to do all such acts, deeds, things and matters in the name and on behalf of the Company in connection with the execution thereof, pertaining to the EOI for “Selection of System Integrator for Vehicle Tracking Solutions for Pune Municipal Corporation (PMC) vehicles”.

We hereby agree to ratify all acts, deeds, and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and always be deemed to have been done by us.

All terms not defined herein, shall derive their meaning in the EOI Document.

IN WITNESS WHEREOF WE THE PRINCIPALS ABOVE NAMED HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS [•] DAY OF [•], 2018

In the presence of

Before

Me

OFFICIAL SEAL AND SIGNATURE OF THE FIRM:

Name of the Legal Representative (*executant*): [•]

Duly authorised by the board to issue such Irrevocable Power of Attorney dated this _____ day of _____ (In case the Firm is a company).

Signature of the Legal Representative:

Name of the Attorney:

In the capacity of:

[Insert title or other appropriate designation]

Signature of the Attorney:

Company's seal:

Witnesses:

1. Name: _____

Address: _____

Signature: _____

2. Name: _____

Address: _____

Signature: _____

Note:

- 1. The Applicant should include such power of attorney in its EOI.*
- 2. The mode of execution of the power of attorney should be in accordance with the procedure, if any, laid down by the Applicable Law.*
- 3. Also, wherever required, the executant(s) should submit for verification the extract of the charter documents and documents such as a board or shareholder's resolution/ power of attorney in favour of the person executing this power of attorney for the delegation of power hereunder on behalf of the executant.*

4. *For a power of attorney executed and issued overseas, the document will also have to be legalised by the Embassy of the Republic of India/ High Commission of the Republic of India/ Consulate General of the Republic of India/ Honorary Consulate General of the Republic of India and notarised in the jurisdiction where the power of attorney is being issued. However, the power of attorney provided by executants from countries that have signed the Hague Legalisation Convention 1961 are not required to be legalised by the Indian embassy if it carries a conforming apostille certificate.*