KERALA FOREST DEPARTMENT

THRISSUR ZOOLOGICALPARK, WILDLIEF CONSERVATION & RESEARCH CENTRE (TZP)

PUTHURP.O,NEAR KURISUMOOLA THRISSUR, KERALA -680 014

Limited EoI is invited from Total Solution Provider (TSP) approved by Govt. of Kerala or IT/ITeS Solution provider registered under Kerala Startup Mission (KSUM)
Head of account: 2406-02-110-48-ZP (Plan)

(EOI)

EXPRESSION OF INTEREST – DOCUMENT

FOR

INTELLIGENT PARKING SYSTEM (IPS)

EOI No: TZP/170/25>
Date:<18-06-2025>

Issued by
THRISSUR ZOOLOGICAL PARK (TZP)

Index

1. Notice Inviting EOI

THRISSUR ZOOLOGICAL PARK (TZP)	
Thrissur Zoological Park, Wildlife Conservation & Research Centre (TZP) invites Expression of Interest from Total Solution Provider (TSP) of Government of Kerala for IT/ITeS and experienced Solution Providers registered under Kerala Start up Mission (KSUM) for IT/ITeS for carrying out activities related to Intelligent Parking System of Zoological Park and Research Centre (TZP) under **Build Operate and Transfer mode**.	
Who can Apply	Interested Solution providers, who have proven record in Requirement analysis, Implementation and Operation & Maintenance of web based and Mobile based automated parking solution.
How to get copy of EoI document	EoI document is available for download at www.forest.kerala.gov.in EoI fees needs to be submitted along with the proposal, failing which the proposal would be summarily rejected or else document proof for exemption shall be submitted.
How to Submit the Proposal for the EoI	The Proposal for EoI and other relevant documents shall be sent by post or e-mail to The Director Thrissur Zoological Park Puthur P.O, Near Kurisumoola Thrissur, Kerala -685 014 Email-thrissurzoologicalpark@gmail.com

1.1. Schedule of Events

S.NO	Details	Particulars
1.	Start date of downloading of EoI Document from www.forest.kerala.gov.in.	19-06-2025 1 pm
3.	Meeting with prospective Agencies	24-06-2025 11.30 am
6.	Last date of submission of proposal	03-07-2025 5 pm
7.	Opening date of EoI	05-07-2025 1 pm
8.	Tentative date of publication of shortlisted agencies	10-07-2025 1 pm

1.2. Fact Sheet

S. No.	Description	
1.	Mode of EoI submission	The Proposal for EoI and other relevant documents may be sent by post or e-mail to The Director Thrissur Zoological Park Puthur P.O, Near Kurisumoola Thrissur, Kerala -685 014. email address thrissurzoologicalpark@gmail.com
2.	Type of proposal required	Expression of Interest (EoI) Pre-qualification, Technical (single cover),
3.	Venue of meeting with prospective Agencies	Thrissur Zoological Park, Puthur, Thrissur -680 0014 Kerala state
4.	EoI Fee	Rs.1000 (INR Rupees Thousand Only) Or Document of proof for Exemption
5.	Bank accounts details of Thrissur Zoological Park	Name of Bank: Canara Bank, Puthur Branch A/C No. 3533201000081 Type of A/c Current Account IFS Code CNRB0003533
6.	Date of presentation by bidders	Will be informed after completion of the short listing process
7.	Contact details of Authorised person in Thrissur Zoological Park.	Director , Thrissur Zoological Park... Puthur ,Thrissur -6800014 Kerala state Mob : 9567979115 Land phone 0487-2353455 Email: thrissurzoologicalpark@gmail.com

Note: Please note that the travel expenses and other incidental expenses to attend the meeting will have to be borne by the applicant.

2. Background of the Thrissur Zoological Park

The Thrissur Zoological Park, located at Puthur of Thrissur in the state of Kerala, India, is envisaged to be the largest and most advanced wildlife conservation and research centre in India.

Thrissur Zoological Park, the first fully designed zoo in India, designed by world famous zoo designer Jon Coe, is targeted to be commissioned in 2025. The works relating to the Park, having facilities comparable to international zoos, are in the final lap. Facilities for housing all animals in the present Thrissur Zoo which is getting fully relocated to the new site and facilities for animals to be brought from other zoos in India and zoos abroad are being set up over 338 acres for forest land at Puthur in Pattikkad Forest Range. The animal houses are established in the foothills of five interconnected hillocks spreading over a circular distance of 6 kilometers

The park will feature several different habitats, including tropical forests, grasslands, wetlands, and in different zones like Parking & Entrance Zone, Entrance Plaza & Orientation Centre, Biodiversity Court, Kanha Zone, Silent Valley Zone, African Plains, Bear Zone, Shola Grassland and Grassland to provide a natural and authentic environment for the animals.

Driven by the necessity to relocate the century old State Museum and Zoo, Thrissur, to a spacious location befitting the habitat requirements of animals in captivity, State of Kerala decided in 2012 to establish a modern zoological park over 338 acres of forest at Puthur in Thrissur District. Jon Coe, the world famous zoo designer has effectively made use of every element of the undulating forest terrain to create habitats for terrestrial, arboreal and aquatic animals, both in indoor and outdoor spaces. Great Aviaries, nocturnal houses and open exhibits cover the chain of animal habitats in circular layout at the foot of forested hills over more than four kilometers. Zoo construction started in 2019, following strict environmental safeguards, is in the final lap and slated to be commissioned in 2025. Rs 360 crore project is funded by State of Kerala through KIFBI including Plan fund of GoK.

It is expected that per year around 25 lakhs visitors including students will be visiting for entertainment and education purpose in the proposed Thrissur zoological Park and Research Centre. It is the policy of Government of Kerala to implement e-Governance and cater citizen centric service to public (G2C service) wherever possible.

This EoI is intended for identifying the potential bidders in the market, gathering information for the automation of Parking Management of TZP, time lines for the implementation of the project, and for arriving at approximate cost for budgetary purpose and project planning. The outcome of the EOI process will be the publication of RFP for procuring the service including pre-qualification cum Technical cover and financial bid through online tender platform of Government of Kerala.

3. Overview of the Parking Facility

The parking area at Thrissur Zoological Park is strategically designed to accommodate various types of vehicles and ensure a seamless flow of traffic. Spanning 21,000 square meters, the facility serves as a critical component for managing visitor traffic while prioritizing convenience, accessibility, and efficient space utilization.

Location and Access Points

The parking lot is 400 meters long, extending from the Kurisumoola junction to the main entrance plaza of the Thrissur Zoological Park. It is easily accessible, with four main gates that provide direct entry points for vehicles.

- **Gate 1**: This is the primary entrance, located closest to the Entrance Plaza of the Orientation Centre. Adjacent to this entrance is a dedicated visitor drop-off area, along with a bus drop-off area for larger vehicles. VIP parking spaces are conveniently located near Gate 1.
- **Gate 2 to Gate 4**: The parking lot is divided into several zones, with clear demarcation and designated parking spaces for different vehicle types. Each zone ensures that traffic can flow smoothly and that parking space is maximized.

Parking Layout and Zones

The parking facility is structured across three distinct layers, each serving different categories of vehicles. The zones are carefully planned to manage the parking of cars, two-wheelers, and buses efficiently.

- Zone 3 (Gate 1 to Gate 2): The parking area begins right after the bus drop-off area, extending until Gate 2.
    - This first zone primarily caters to car parking, offering a range of spaces to accommodate visitors arriving by personal vehicles.

- Zone 2 (Gate 2 to Gate 3): This zone is primarily designated for car and bike parking.
    - The lower and upper rows are dedicated exclusively to cars.
    - The middle row is reserved for two-wheelers, ensuring a clear distinction between different vehicle types.

- Zone 1 (Gate 3 to Gate 4): In this section three rows of parking are available,
    - The lower row is designated for heavy vehicle including buses
    - The upper two rows are allocated for cars.

Parking Capacity and Specifications

The facility is designed to cater to a high volume of visitors, with a parking capacity that includes:

- **283 four-wheelers (cars and medium motor vehicles)**
- **129 two-wheelers**
- **15 coaches**
- **8 VIP parking spaces**

The parking area is equipped with two high masts for lighting, ensuring adequate illumination during evening hours. Additionally, there are distribution feeder pillars positioned

in front of the bus drop-off area, providing necessary electrical support for future utilities.

Accessibility and Pathways

One of the key features of the parking area is its focus on accessibility. A covered walkway runs along the parking lot, providing easy and safe access to the entrance plaza of the Orientation Centre. This walkway is designed with wheelchair access in mind, ensuring that individuals with mobility challenges can navigate the area with ease. For added convenience, the parking area features a driver amenity block with essential primary facilities, making it easier for long-distance drivers to take a break

Infrastructure and Road Design

- **Driveways**: All driveways are designed with a width of 6 meters to accommodate smooth vehicle movement. The driveway in front of the bus parking area is 11 meters wide to accommodate larger vehicles, without hindering the flow of traffic.
- **Materials**: The driveways are constructed using dense bituminous macadam. While the parking area floors are paved with interlocking bricks, providing a durable and aesthetic finish. These parking areas are demarcated to facilitate organized parking and prevent any confusion regarding parking spaces.

4. PROJECT OBJECTIVES

Objectives of the project

The objective of the EoI is to solicit proposal from interested parties for providing solution for Intelligent Parking System under **Build Operate and Transfer mode.**
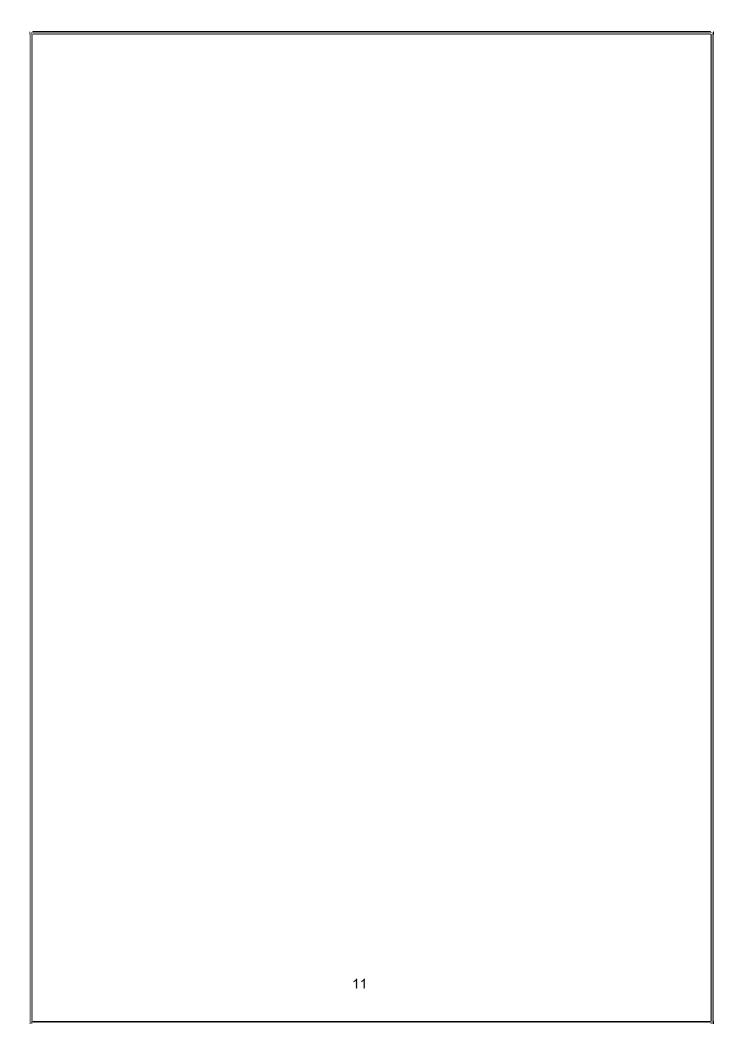
The objective of the project is to develop a solution for automation of parking facility of TZP and to deliver a seamless parking experience for users, enhancing convenience, reducing wait times, and ensuring optimum utility of parking space.

Implementing the parking system will not incur Capex and Opex cost to TZP and will reduce physical workload and officials could keep track of the entire activities through reports which in turn help in hazzle-free operation. During time of final closure of the project, software (including latest updated source code and perpetual licenses) and Hardware used for this project to be handed over to TZP and the ownership should be transferred to TZP and it will be the asset of TZP.

5. Pre-Qualification (PQ)

Following are the details required from the bidder and to be filled in the following format.

S.No.	PQ Criteria	Specific Requirements	Documents Required
1	The bidder should be TSPs of Government of Kerala for IT/ITeS or Registered under KSUM for IT/ITeS	Document proof	Copy of the GO or relevant document.
2	EoI Fee	Rs.1000 (INR Rupees Thousand Only)	Bank transaction details or Document proof for Exemption
3	The solution provider should be a IT/ITeS Solution Provider with experience in the implementation and operation of similar solution, at least one project, with parking of minimum 100	Minimum of one number of successful implementations of similar IT/ITeS solution for parking facility of 100 vehicles in last three years	Copy of the Work order and successful completion certificate from customer/client.
4	Sales Turnover in IT and ITeS services (System integration/ software development)	- Average annual turnover generated from services related to IT/ITES during the FY 2022-23 or 2023-24 financial years	1. Extracts from the audited Balance sheet and Profit &Loss statement. Or 2. Certificate from the Statutory auditor
5	Certifications if any	ISO 9001 or ISO 27001 or CMMI	Copy of all valid certificates
6	Manpower Strength	Solution provider is required to provide details of no. of professionals and field staff proposed for various roles.	Self-certification by the Solution provider
7	Blacklisting Or Under declaration of ineligibility for fraudulent or corrupt practices or inefficient /ineffective performances	The Solution provider should not have been blacklisted by any Central or State Government, Ministry or any Agency. The Solution provider should also not be entangled in any legal disputes with any Govt. / PSU.	Declaration from the Solution Provider/ Start-up in the letterhead.

6. Scope of Work:

The scope of work mentioned herein under specified are minimum requirements and the stake holders may extend the scope further for fulfilling the objectives. If any other activities found essential for the accomplishment of the project, not specified in the scope, the participant is free to include that activity also in their action plan.

The overall scope is to design, installation, and maintenance of the Intelligent Parking System. The Major scope of work includes but not limited to;

To procure and install ICT infrastructure such as NETC RFID Reader, Boom barriers, Automatic Vehicle Classification (AVC),Cameras (Automatic Number Plate Reader camera, evidence cameras etc), Sensors, PoS machine, System antennas, lane controller, Internet connectivity, UPS, servers, NVR, etc, other associated hardware for the designated parking spaces and to provide parking information displays at entry point of parking site along with supply and installation of Parking Management. Android and IOS Mob App for smooth parking management and booking also will be part of the system.

TZP desires perpetual user license for the proposed solution, no extra license fee will be released in this regard. Preferred technology will be micro service architecture, non-blocking and loosely coupled.

Latest/updated Source Code of Application supplied /Customs Build and hard wares are required to be transferred at time of final closure of the project. **Participants not willing to deliver source code will not be considered.**

The information/ content submitted in the proposal by the participants in the EoI can be reused by TZP for futuristic requirement . Participants who submit the proposal deem to be accept & agree the terms and condition of the EoI

TZP will give undertaking that proposal will be used by TZP only for its internal requirement.

6.1. Indicative Functional Scope

6.1.1. Hours and Admission: Up-to-date information on opening hours, ticket prices, and special discounts.

6.1.2. Automated Entry and Exit Barriers

6.1.3. Support unmanned and manned operation

6.1.4. The successful bidder shall be collecting (parking charges), operating, and managing the TZP owned public parking spaces on behalf of the TZP as per the terms and conditions of the agreement

6.1.5. The selected bidder has to comply with the TZP parking policy and its amendments from time-to-time.

6.1.6. Conduct a detailed assessment of the parking spaces and their infrastructure to determine the optimal placement of hardware and equipment.

6.1.7. Establish protocols for data management, including the storage, retrieval, and analysis of parking-related information

6.1.8. Proposed Solution capable of recognizing vehicle type/class

6.1.9. The Selected bidder shall collect the automatic parking charges using FAST tag for four/six wheelers and UPI/ debit/credit card for two wheelers ensuring a secure transaction through a reliable payment gateway

6.1.10. The selected bidder has to adhere to the technical and functional requirement of the software and hardware as defined by NHAI/ MoRTH/ IHS documents for end-to-end management of the NETC for collection of parking charges

6.1.11. Monitor and manage the RFID/FAST tag system on a day-to-day basis to ensure accurate and reliable data collection and processing

6.1.12. Regularly update and maintain the Boom Barriers, RFID/FAST tag, cameras, sensors, PoSand other infrastructure to ensure optimal performance and minimize downtime

6.1.13. Tag validation shall be displayed on the board

6.1.14. Solution shall have the feature of indicating of vacant parking slot and direction at the entry point of each parking area by using Variable Message Sign board (VMS)

6.1.15. The indicative list of software shall include comprehensive centralized parking management software, backend system, Mob app for parking and monitoring, communication protocols, data Storage and analysis, user interfaces, etc

6.1.16. The solution should cater to Web based Ticketing, Mobile based ticketing, POS based Ticketing,

6.1.17. Parking status of vehicle shall be available on parking management software

6.1.18. User Interface and Experience (UI/UX): Easy-to-use menus and navigation paths that allow users to find information quickly and efficiently.

6.1.19. Provision for real-time parking space detection and allocation

6.1.20. Mob application should be native/support native functionality android and Apple IOS

6.1.21. System shall provide interface for setting of control limits for sale of online tickets

6.1.22. The online ticketing application shall have provision for users to find, locate, and book available parking slots in advance and gives the client the ability to manage their reservations, schedules and ticket booking.

6.1.23. Visitors can select the date and time of their visit (if timed entry is implemented),

6.1.24. Feedback and customer support: Ensure the availability of customer support services to address user inquiries, complaints, and technical issues and analyzing visitor feedback to improve services and experiences

6.1.25. Integration with central pooling account with PoS machine,Fast tag.
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6.1.26. Proposed Solution supports customized ticket pricing, discounts and also support combo offer

6.1.27. System shall have an ability to accept cash payment and it should come equipped with point-of-sales cash register system etc.
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6.1.28. Solution should capable for parking fees collection and issue receipt through PoS

6.1.29. Printed receipt should include TZP name, vehicle no date, time, price, etc .

6.1.30. Receipt shall include fields such as operator ID, payment terminal ID, location, mode of payments, etc

6.1.31. During exit, fare should be displayed on the board

6.1.32. Solution shall cater count mechanism such that at any time a real dashboard will display the

total vehicles parked and vacant slot available, occupied slots and revenue collected etc.

6.1.33. Ensure seamless data flow and synchronization across all platforms

6.1.34. Conduct thorough testing and quality assurance to ensure the proper functioning of the system.

6.1.35. Proposed solution shall have surveillance system and can capture and store 12 hours video of daily operation time   and capacity to retain 30 days back up.

6.1.36. There shall be control center in the premise.

6.1.37. Integration with the proposed eGov-TZP (Proposed ERP solution) and the Web portal for financial tracking and reporting.

6.1.38. Intelligent parking system should expose API's to eGov-TZP for booking parking slot ,fetching the availability of parking slots, dash board related data such as daily real time ticket count ,monthly and yearly ticket count , real time occupancy ,availability

6.1.39. SMS gate way integration .Message shall be send to customer during booking and for transaction debit

6.1.40. Customization: Provision for customization of the ticketing system to fit the unique needs of TZP

6.1.41. The solution shall be scalable, customizable, faster results, secure log on, single sign on feature, User Management, able to access solution from outside of the premises

6.1.42. System shall comply for Payment Data Security

6.1.43. There shall be a provision to provide suitable file for bank reconciliation

6.1.44. System shall be able to print system generated receipts.

6.1.45. There shall be a provision to reconcile daily cash received by cashier/operator.

6.1.46. The system shall be able to generate statutory GST reports as directed by GoI.

6.1.47. Operation and Maintenance cost for proposed solution for first 5 years.

6.1.48. The feasibility of electrical load addition or enhancement of the total connected power if required shall be mentioned

6.1.49. MIS report & Data Analytics

The following reports are Indicative not exhaustive:

Date wise reports on

➢ Total vehicles parked &total revenue generated

➢ Peak parking hours

➢ Average parking duration

➢ Number of vehicles per vehicle type (Bus, Tempo, cars, motorcycles, etc.)

➢ Occupancy rate (percentage of available spaces used).

➢ Top parking days of the month

Occupancy Rate Analysis Report

➢ Average daily/weekly/monthly occupancy rate

➢ Peak and off-peak occupancy periods

➢ Historical occupancy trends

➢ Identifies under-utilized or over-utilized areas

➢ Monthly revenue trends (comparisons to previous months/year)

Revenue Analysis Report

➢ Total revenue generated

➢ Revenue per vehicle

➢ Revenue per parking space

Space Utilization Heat map

➢ Colour-coded map indicating high/low occupancy areas

➢ Identifies underutilized or congested areas

7. General condition of the Contract

7.1.1. Capital and Operational Investment (CAPEX and OPEX) for the entire project shall be borne by the Successful Bidder

7.1.2. The operational expenses, include human resource, maintenance, electricity, cloud server charges, storages for data & video retention, housekeeping etc shall be borne by the Successful Bidder

7.1.3. Directions and Parking: Shall provide directions to the parking including sign board, VMS, maps and parking slot.

7.1.4. All civil work related to this project to be done by the Successful Bidder which include construction of Command center ,toll cabin , marks parking slots manually and accurately, LED infrastructure , Sensors, Surveillance system erection etc

7.1.5. Daily routine cleaning and waste management (including dust bin, broom stick etc) shall be done by the Operator (Successful Bidder)

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8. APPENDIX: EoI RESPONSE FORMS

The Bidders are expected to respond to the EoI using the forms given in this section and all documents supporting Pre-Qualification Criteria. Pre-Qualification & Technical Proposal shall comprise of following forms::

Appendix 1: Form 1: Letter of Proposal
Appendix 2:Form 2: EoI Response template (checklist)
Appendix 3:Form 3: Compliance Sheet for Pre-qualification Proposal
Appendix 4:Form 4: Particulars of the Bidder
Appendix 5:Form 5: Project Citation Format
Appendix 6:Form 6: Proposed Solution
Appendix 7 & 8

8.1. Form 1: Letter of Proposal

(Company letterhead)
 [Date]

To,

The Director
Thrissur Zoological Park Puthur P.O, Near Kurisumoola Thrissur P.O
Kerala-685 014 India

Subject: Submission of the Proposal for Implementation of Intelligent Parking System (IPS) in TZP

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Dear Sir,

Having examined the Expression of Interest (EoI), we, the undersigned, intend to submit a proposal in response to the Expression of Interest (EoI) for presenting our credentials to the Client. We are ready to participate in the meeting with the Client at Puthur, Thrissur, Kerala for making presentation regarding our firm and our credentials in the field of software solution for Intelligent Parking Solution

Primary and Secondary contacts for our company are:

Particulars	Primary Contact	Secondary Contact
Name:		
Title:		
Company Name:		
Address:		
Phone:		

We confirm that the information contained in this response or any part thereof, including its exhibits, and other documents and instruments delivered or to be delivered to Thrissur Zoological Park is true, accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead the Client in its RFP developing process.
 We confirm that any information, technical design etc submitted by our company/organization   in EoI shall be used for the preparation of RFP by the TZP.

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, we are liable to be debarred from the RFP process that will follow.

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

Yours sincerely,

Authorized Signature [In full and initials] with company seal:
Name and Title of Signatory:
Name of Firm:
Address:
Location:
Date:

8.2. Form 2: EoI Response template (Check list):

S. No.	Bid response documents for evaluation (Pre-Qualification & Technical) Criteria	Compliance status (Fully Complied / Not Complied)	Details on compliance and reference documents page no , wherever required, in Appendix
1	Form 1: Letter of Proposal		
2	Form 2: Bid Response compliance status/Eol response checklist. (This form)		
2	Form 3: Compliance Sheet for Pre-qualification Proposal		
3	Form 4: Particulars of the Bidder		
5	Form5: Project Citation Format		
6	Form 6: Proposed Solution		

8.3. Form 3: Compliance Sheet for Pre-qualification Proposal

(The pre-qualification proposal should comprise of the following basic requirements. The documents mentioned in this compliance sheet along with this form, needs to be a part of the Pre-Qualification proposal)

S.No.	Basic Requirement	Specific Requirements	Documents Required	Compliance status.	Reference & Page Number
1	The bidder should be TSPs of Government of Kerala for IT/ITeS or Registered under KSUM for IT/ITeS	Document proof	Copy of the GO or relevant document	Yes/No	
2	EOI Fee	Online payment , Rs.1000 (INR Rupees Thousand Only)	Bank transaction details or Document proof for Exemption	Yes/No	
3	The solution provider should be a IT/ITeS Solution Provider with experience in the implementation and operation of parking solution ,at least one project with parking of minimum 100 vehicles	Minimum of one number of successful implementations of parking IT/ITeS solution with parking facility of 100 vehicles	Copy of the Work order and successful completion certificate from customer/client.	Yes/No	

4	Sales Turnover in IT and ITeS services (System integration/ software development)	Average annual turnover generated from services related to IT/ITES during the FY 2023-24 or 2024-25 financial years	Extracts from the audited Balance sheet and Profit &Loss statement. Or Certificate from the Statutory auditor	Yes/No	
5	Certifications if any	ISO 9001 or ISO 27001 or or CMMi	Copy of all valid certificates	Yes/No	
6	Manpower Strength	Solution provider is required to provide details of no. of professionals and field staff proposed for various roles .ie Over all staffing estimates, qualification requirements and plan	Self-certification by the Solution provider	Yes/No	
7	Blacklisting Or Under declaration of ineligibility for fraudulent or Corrupt practices or inefficient/ ineffective performances	The Solution provider should not have been blacklisted by any Central or state Government, Ministry or any Agency .. The Solution provider should also not be entangled in any legal disputes with any Govt. / PSU body	Declaration from the Solution provider in letterhead.	Yes/No	

8.4. Form 4: Particulars of the Bidder

S. No.	Information Sought	Details to be Furnished
A	Name and address of the Company/Organisation	
B	Incorporation status of the firm (private limited/TSP,etc.)	
C	Year of Establishment	
D	Date of registration	
E	GSTIN	
F	Bank Account Details	
G	Details of registration with appropriate authorities for service tax	
H	Name, Address, email, Phone nos. And Mobile Number of Contact Person	Letter from the authorized signatories of the organisations, for contractual aspects, confirming the details requested

8.5. Form5: Project Citation Format

Relevant IT project experience (provide maximum 3 projects) Use 1 project per page	
General Information	
Name of the project	
Client for which the project was executed	
Name and contact details of the firm	\<Name\> \<Department \> \<Designation\> \<email id\> \<Mobile / Work Nos\>
Project Details	
Description of the project	
Contract period	Start date & End date
Transaction volume	No of vehicles :parked in a month Maximum number of tickets issued per day : No of tickets issued per year: Maximum number of transaction per day: Maximum number of transaction per year :
Scope of services	
Service levels being offered	
Technologies used and Infrastructure Architecture, Current Product version at customer site	
Outcomes of the project	
Other Details	
Total cost of the project	
Duration of the project (no. of months, start date, completion date, current status)	
Other Relevant Information	
Value added services, if there any, provided	

8.6. Form 6: Proposed Solution

Bidders are required to provide their response in the following format with maximum page size is given for each of the sections within bracket, wherever applicable.

1) About the Company (one page)
   Brief overview of your company, highlighting experience with parking automation projects.

2) About the proposed Smart Parking Management solution and its features (3 pages)
3) Operational Plan (2 pages)
4) Core Components and Features (3 pages)

   - Automatic Number Plate Recognition (ANPR)
   - Boom barriers and RFID/QR-based access
   - Vehicle sensors for slot monitoring
   - Central display units (LED/LCD)
   - Variable message Sign Board
   - CCTV and surveillance setup
   - Power backup and UPS systems
   - Optional: EV charging, solar panels

5) Control Room and Minimal IT Infrastructure (2 pages)
6) Network Architecture (basic network layout)
   Only necessary backend components for device communication
   Local LAN/Wi-Fi + optional cloud relay for dashboard access
7) Software Architecture:, Proposed Application architecture based on micro service architecture and loosely coupled. The Proposed Infrastructure architecture, key considerations in the Architecture to meet the requirements (2 pages)
8) Additional features/technology (functional and non-functional) other than mentioned in scope of work in EoI if any
9) Technology used, list of third party products planned to use in the solution (2 pages)
10) Risk Management and BCP(2pages)
11) BOQ of the hardware components including wires, cables, conduit etc used for the project, their respective specification and approximate cost (Format Sl no : Item name: specification: Brand :unit rate :per: quantity: Amount)
12) Approximate cost for the entire solution
13) Proposed project implementation model and Revenue Sharing Ratio (TZP: Bidder)
14) Operation and Maintenance cost for proposed solution for first 5 years.

Appendix -7 & 8