

RFQ Vendor Empanelment for providing Geo-Fence Data



Request for Quotation – Vendor Empanelment for providing Geo-Fence Data

RFQ Reference No: NPCI/RFQ/2022-23/NETC/01 dated 30.01.2023
National Payments Corporation of India
Unit no. 301, 3rd floor,
Raheja Titanium,
Western Express Highway,
Goregaon East, Mumbai 400 063
Website: www.npci.org.in

RFQ Vendor Empanelment for providing Geo-Fence Data

Copyright Notice

Copyright© 2022 by National Payments Corporation of India. All rights reserved.

Disclaimer

The information contained in this Request for Quotation (“**RFQ**”) document or information provided subsequently to Bidder (defined below) or applicants whether verbally or in documentary form by or on behalf of National Payments Corporation of India (“**NPCI**”), is provided to the Bidder on the terms and conditions set out in this RFQ document and all other terms and conditions subject to which such information is provided.

This RFQ document is not an agreement and is not an offer or invitation by NPCI to any parties other than the applicants who are submitting the bids (“**Bidders**”). The purpose of this RFQ document is to provide Bidder with information to assist the formulation of their proposals. This RFQ document does not claim to contain all the information each Bidder may require. Each Bidder should conduct its own investigations and analysis and should check the accuracy, reliability, and completeness of the information in this RFQ document, and where necessary, obtain independent advice. NPCI makes no representation or warranty and shall incur no liability under any law, statute, rules, or regulations as to the accuracy, reliability or completeness of this RFQ document. NPCI may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information in this RFQ document.

Important Detail about RFQ

Note: Bids will be opened in the presence of the Bidders' representative who chooses to attend Bid opening meeting.

RFQ Vendor Empanelment for providing Geo-Fence Data

Checklist

The following items must be checked before the bid is submitted:

1. Eligibility, Technical and Commercial Bids prepared in accordance of RFQ document.
2. Envelope 'A' Eligibility Bid.
3. Envelope 'B' Technical Bid.
4. Envelope 'C' Commercial Bid
5. Copy of the RFQ document duly sealed and signed by the signatory.
6. All the pages of Eligibility Criteria Response, Technical Criteria Response and Commercial Bid duly sealed and signed by the signatory.
7. All relevant certifications, audit reports, to be enclosed to support claims made in the Bid must be in relevant Envelopes.
8. All the pages and submitted documents as part of Bid must be duly sealed and signed by the signatory.
9. Prices to be quoted in Indian Rupees (INR).
10. Prices should be exclusive of GST
11. Delivery of the entire project (all parameters as mentioned in the RFQ document should be within 30 – 180 days)

RFQ Vendor Empanelment for providing Geo-Fence Data

Contents

Copyright Notice	2
Checklist	3
BID Schedule and Address	5
Objective	6
Scope of work:.....	6
Eligibility Criteria	7
Service Level Agreement	7
Amendment of Bidding Documents.....	8
Earnest Money Deposit (EMD)	8
Return of (EMD)	8
Forfeiture of (EMD)	8
Period of validity of Bid.....	9
Extension of Period of Validity	9
Signing of Bid	9
Price discovery method.....	9
Submission of Bid	9
Envelope 'A' Eligibility Criteria	10
Envelope 'B' Technical Criteria:	10
Envelope "C" Commercial Bid.....	10
Bid Currency	10
Bid Language	10
Rejection of Bid	11
Deadline for Submission	11
Extension of Deadline for submission of Bid	11
Late Bid	11
Modifications and Withdrawal of Bids	11
Right to Reject, Accept/Cancel the bid	11
RFQ Abandonment	11
Order Cancellation	12
Confidentiality	12
Indemnity	13
Annexure A1 – Bidder's Letter for EMD	14
Annexure A2 - Bid Security (Bank Guarantee)	15
Annexure A3 - Bid Security	16
Annexure A - Bid Offer Form (without Price)	17
Annexure B - Bidder Information	18
Annexure C - Declaration for Clean Track Record	19
Annexure D - Declaration for Acceptance of RFQ Terms and Conditions	20
Annexure E - Declaration for Acceptance of Scope of Work.....	21
Annexure F - Format Power of Attorney for signing of Bid.....	22
Annexure G - Eligibility Criteria Compliance	23
Annexure H – SLA Acceptance.....	24
Annexure K2: Equipment Details	25
Annexure K3: Data Processing Methodology	25
Annexure K4: Structure and Composition of Team with details of the Qualified Staff	25
Annexure K5: Details of Similar Work Experience	26
Technical Evaluation	26
L1 Evaluation - Final Technical Evaluation	26
Annexure I – Commercial Format.....	27
Commercial Evaluation	28
Annexure J - Commercial Proposal.....	29

RFQ Vendor Empanelment for providing Geo-Fence Data

Annexure K1: Gantries Classifications 31

BID Schedule and Address

Sr. No.	Description	
1	Name of Project	Request for Quotation for empanelment of vendor for providing Geo-Fence Data
2	Tender Reference Number	NPCI/RFQ/2022-23/NETC/01
3	Floating of RFQ	30th January '23
4	Pre bid meeting for all clarifications	3rd Feb '23 (online on teams)
5	Last date and time of receiving Bidders' Pre-Bid clarifications in writing	7th Feb '23
6	Last date and time for Submission Bids	14th Feb '23; 5:00 PM
7	Date and Time of Commercial Bid Opening	Will be communicated to qualified bidders
8	Place of Bid Submission and opening of Bids	National Payments Corporation of India, 301, 3rd Floor, Raheja Titanium, Off Western Express Highway, Goregaon East Mumbai-400063, India
9	Name and Address for communication	Head - NETC Product National Payments Corporation of India, 301, 3rd Floor, Raheja Titanium, Off Western Express Highway, Goregaon East Mumbai-400063, India E-mail: Neelesh.Gupta@npci.org.in
10	Bid Related Queries	Mr. Kailash Wadhwa Email id: kailash.wadhwa@npci.org.in Contact No:+91 9820239011 Mr. Kesarinandan Kumar Contact No: +91 9769983065 Email id: kesarinandan.kumar@npci.org.in
11	Bid Cost	INR 17,700 (Rupees 15,000 + 18% GST)
12	EMD	INR 5,00,000 (Rupees Five Lakh)

RFQ Vendor Empanelment for providing Geo-Fence Data

Objective

This RFQ is being issued by NPCI for soliciting offers and rates from the Bidder, in order to provide the Geo fence data. We propose to procure the geo fence data for Tolling - NH (National Highways) and SH (State Highways) across the whole of India and of Non Tolling locations (such as Parking / Fuel stations / EV Charging stations) along with all possible entry and exit points of all these locations thereon.

Scope of work:

The Bidder should be able to provide the data as follows:

Collection of GIS data for Pan-India NH-SH highways and Non Tolling use cases (covering the Fuel stations, EV Charging stations, parking facilities of Airports, Malls, Municipal Corporations, Metro Stations, Hospitals) across India, with accuracy up to a meter in the horizontal domain and up to three meters in the vertical domain. Collected data should be in the GIS (ESRI Shape File & KML File) Format referenced to WGS-84 ellipsoid. The location data shall be 3D i.e., Latitude, Longitude, and Altitude. Following data shall be provided. Refer Annexure L for detailed information:

- D1 – Centre Line Data for NH and SH pan India; - (Required only for Tolling)
- D2 – Polygonised data for all NH and SH pan India, non tolling premises; (all the vertices of the polygon are required as a separate file for each highway) (Required for Tolling as well as Non Tolling)
- D3 – Virtual Gantries for all Exits and Entry Points (Junctions and intersections for NH & SH) with in the toll area and non tolling premises. Each gantry shall be represented as a 3D polygon. (all the vertices of the polygon are required as a separate file for each highway) (Required for Tolling as well as Non Tolling)
- D4 – Ground Verification for Virtual Gantries along with 360° Photograph of the locations; and each virtual gantry shall be classified as given in Annexure K1; (Required for Tolling as well as Non Tolling)
- D5– Each Entry and Exit Points should be virtually paired even if pairing is not possible in the physical sense. Distance matrix between all Entry and Exit Points shall be provided. (Required only for Tolling)

Additionally, the database should include the following:

1. The road segments should be identified with the NH and SH ID as defined by the MoRTH or NHAI.
2. Length of the road segment.
3. Travel direction information of the road.
4. Carriageways (single or dual).
5. Speed limit (optional)

The provided data shall be interoperable with any other map database available without any degradation in the accuracy. For example, maps from Google, Apple, MapMyIndia, HERE, Open Street Map, MapBox, etc.

The L1 Bidder will be selected through this closed RFQ process on a non-exclusive basis.

Bidders to make a note of the below mentioned points:

RFQ Vendor Empanelment for providing Geo-Fence Data

Quote to be provided for all Tolling and Non Tolling locations – Numbers mentioned in the Annexure I

NPCI may carry out the Implementation process in 2 phases as mentioned below:

- a. Phase 1 – All Tolling locations (NH & SH) & selected number of Non tolling locations (premium parking plazas at Airports, Malls & Railway station & Fuel / EV Charging stations in selected cities)
- b. Phase 2 – Out of the residual Non Tolling locations – In full or partial

It is important to note that it is upto the discretion of NPCI to implement Phase 2. NPCI holds no accountability for non-implementation of Phase 2 (in full or partial)

Timelines for delivery of the project - Delivery of the entire project (all parameters as mentioned in the RFQ document should be within 30 – 180 days)

NPCI shall be free to engage any other party/ies or may entrust arrangement similar to the scope of this RFQ or any part thereof to any other company/entity /partnership firm/limited liability partnership.

Eligibility Criteria

1. The Bidder must be entity incorporated for doing business in India and should be able to provide the data as mentioned above.
2. The Bidder should not be currently blacklisted by Government/Government Agency/ Bank/ Institution in India.
3. The bidder shall have successfully completed at least one similar work GIS (geographic information system) during the last 5 years and for an amount not less than INR 75 lakhs.

Only such companies/entities/partnership firms/limited liability partnerships which satisfy all the above mandatory provisions will be considered as eligible and only such entity's Technical & Commercial Bids will be opened for final selection.

Service Level Agreement

1. The successful Bidder shall provide a 24X7 (twentyfour by seven) support for all clarifications, resolutions, and communications at all time.
2. Bidder to provide proofs for technical/process driven controls are in place to restrict logical access and log review.
3. The successful Bidder shall ensure that there is no discrepancy or incorrectness in the data provided by it to NPCI and the services performed for NPCI. The successful Bidder should take the full authenticity and accuracy of the data which they will provide and will be held responsible at any point of time if the same comes out to be false or misleading.
4. NPCI can audit the successful Bidder at any given point of time and number of times. The successful Bidder shall from time to time, furnish such information as may be sought by NPCI pertaining to the subject matter of the proposed definitive agreement. The successful Bidder shall also provide to NPCI daily / weekly / monthly/quarterly activity reports in the formats as required by NPCI detailing therein among other information, the past month's/quarter's services performed by the successful Bidder.
5. The Bidder hereby represents that it possesses the necessary experience, expertise, and ability to undertake and fulfill its obligations provided under this RFQ. The Bidder also acknowledges that NPCI relies on this statement of fact, therefore neither accepts responsibility for, nor relieves the Bidder of the responsibility for the performance of all provisions and terms and conditions of this RFQ, NPCI expects the Bidder to fulfill all the terms and conditions of this RFQ.
6. The successful Bidder confirms to NPCI that it complies with and shall continue to comply with all central, state, municipal and local laws, respective regulators, rules and regulations in relation to the

RFQ Vendor Empanelment for providing Geo-Fence Data

services offered pursuant to this RFQ. The successful Bidder shall indemnify NPCI and its employees/officers/staff/personnel/ representatives/agents from and against all claims or demands of liability and all consequences that may occur or arise from any default or failure on its part to conform or comply with the above.

7. There shall be no increase in the agreed commercials for any reason whatsoever during the tenure of the proposed detailed agreement (Phase 1 & Phase 2) as shall be entered and executed amongst NPCI and successful Bidder. However, in the event of subsequent renewal of the proposed definitive agreement or variation, if any, in the agreed commercials contained and provided in the proposed definitive agreement, the same shall be mutually agreed amongst NPCI and successful Bidder in writing.
8. The successful Bidder shall perform the services and carry out their obligations with all due diligence, and efficiency, in accordance with generally accepted professional standards and practices and as per the requirements of NPCI. The successful Bidder shall not be under any arrangement, understanding, or agreement that would preclude it from being engaged with NPCI or provide services to NPCI. The successful Bidder shall, at all times, support and safeguard NPCI's interests.
9. NPCI reserves the right to use this data for any of its products e.g. UPI / RuPay / NETC/ AePS etc

Amendment of Bidding Documents

1. At any time prior to the deadline for submission of bids, NPCI may for any reason, whether at its own initiative or in response to a clarification requested by a Bidder, amend the bidding documents.
2. Amendments will be provided in the form of addenda to the bidding documents. Addenda will be binding on the Bidders. It will be assumed that the amendments contained in such addenda had been taken into account by the Bidder in its bid.
3. In order to afford Bidders' reasonable time to take the amendment into account in preparing their bids, NPCI may, at its discretion, extend the deadline for the submission of bids, in which case, the extended deadline will be posted on NPCI's website.
4. From the date of issue, the addenda to the tender shall be deemed to form an integral part of the RFQ.

Earnest Money Deposit (EMD)

The Bidder is required to deposit Rs. 5,00,000/- (Rupees Five Lakhs only) in the form of a Demand Draft / Pay order in favor of "National Payments Corporation of India" payable at Mumbai or Bank Guarantee issued by a scheduled commercial bank valid for six months, with a claim period of 12 months after the expiry of validity of the Bank Guarantee as per the statutory provisions in this regard, as per format in Annexure A1 or A2.

No interest will be paid on the EMD

Return of (EMD)

The EMDs of successful Bidder/s shall be returned / refunded after furnishing Performance Bank Guarantee (10% of the Purchase Order) as required in this RFQ.

EMDs furnished by all unsuccessful Bidders will be returned on the expiration of the bid validity / finalization of successful Bidder, whichever is earlier.

Forfeiture of (EMD)

The EMD made by the bidder will be forfeited if:

- a) Bidder withdraws its bid before opening of the bids.
- b) Bidder withdraws its bid after opening of the bids but before Notification of Award.
- c) Selected Bidder withdraws its bid / Proposal before furnishing Performance Bank Guarantee.

RFQ Vendor Empanelment for providing Geo-Fence Data

- d) Bidder violates any of the provisions of the RFQ up to submission of Performance Bank Guarantee.
- e) Selected Bidder fails to accept the order within five days from the date of receipt of the order. However, NPCI reserves its right to consider at its sole discretion the late acceptance of the order by selected Bidder.
- f) Bidder fails to submit the Performance Bank Guarantee within stipulated period from the date of acceptance of the Purchase Order. In such instance, NPCI at its discretion may cancel the order placed on the selected Bidder without giving any notice.

Period of validity of Bid

Bids shall remain valid for a period of 180 days after the date of bid opening as mentioned in Section 1 or as may be extended from time to time. NPCI reserves the right to reject a bid valid for a period shorter than 180 days as non-responsive, without any correspondence.

Extension of Period of Validity

In exceptional circumstances, prior to expiry of the bid validity period, NPCI may request the Bidders consent to an extension of the validity period. The request and response shall be made in writing. Extension of validity period by the Bidder should be unconditional and irrevocable. The EMD provided shall also be suitably extended. A Bidder may refuse the request without forfeiting the bid Security

Signing of Bid

1. The Bid shall be signed by a person or persons duly authorized to sign on behalf of the Bidder.
2. All pages of the bid, except for printed instruction manuals and specification sheets shall be initialed by the person or persons signing the bid.
3. The bid shall contain no interlineations, erasures, or overwriting, except to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the Bid.
4. The bid shall be signed by a person or persons duly authorized to bind the bidder to the contract. Such authority shall be either in the form of a written and duly stamped Power of Attorney (Annexure F) or a Board Resolution duly certified by the Company Secretary, which should accompany the Bid.

Price discovery method

NPCI shall be conducting a reverse auction for the said RFQ. Bidder should submit their best price which should be equal to or lower than the price mentioned by NPCI in Annexure I. Bidder who has quoted the lowest bid on the basis of the assessment made by NPCI will be declared as the successful evaluated bidder who will be called L1. NPCI reserves the right to place the Order with the L2 bidder, in case the L1 bidder refuses to accept the Order or otherwise. If first Reverse Auction does not result successful, NPCI reserves the right to call technical qualified bidders for price discussion and declare the successful bidder through Price discussion method instead of conducting 2nd Reverse Auction. The decision with respect to conducting the 2nd Reverse Auction or otherwise, which shall be communicated to technically qualified bidders

Submission of Bid

The Bidder should bear all the costs associated with the preparation and submission of their bid and NPCI will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process. Envelope Bidding process:

The Bid shall be prepared in three (3) different envelopes, Envelope A and Envelope B, Envelope C.

RFQ Vendor Empanelment for providing Geo-Fence Data

Each of the three (3) Envelopes shall then be sealed and put into an outer envelope marked as **REQUEST FOR QUOTATION – “Vendor Empanelment for providing Geo-Fence Data”**. The inner and outer envelopes shall be addressed to NPCI as mentioned in Section 1. The inner envelopes shall indicate the name and address of the Bidder. If the outer envelope is not sealed and marked as indicated, NPCI will assume no responsibility for the bid’s misplacement or premature opening.

Contents of the 3 Envelopes:

Envelope ‘A’ Eligibility Criteria

The following documents shall be inserted inside Envelope A:

1. Demand Draft / Pay Order INR 17,500/- (Rupees 15000 + 18% GST) towards cost of Bid Document in favor of “National Payments Corporation of India” payable at Mumbai
2. Bid Earnest Money in the form of Demand Draft OR Bid Earnest Money in the form of Bank Guarantee – format provided in Annexure A1 / A2
3. Bid Offer form (without price) – Annexure A
4. Bidder Information – Annexure B
5. Declaration of Clean Track Record – Annexure C
6. Declaration of Acceptance of Terms and Conditions – Annexure D
7. Declaration of Acceptance of Scope of Work – Annexure E
8. Power of Attorney for signing of bid – Annexure F
9. Eligibility Criteria Matrix – Annexure G along with supporting documentary proof for each criterion as stipulated.
10. SLA Acceptance as per Annexure H
11. RFQ document duly sealed and signed
12. All necessary supporting documents

Envelope ‘B’ Technical Criteria:

1. Gantries Classifications-Annexure K1
2. Equipment Details-Annexure K2
3. Data Processing Methodology K3
4. Structure and Composition of Team with Details of the qualified staff –Annexure K4
5. Details of Similar Work Experience –Annexure K5

Envelope “C” Commercial Bid

1. Price Format – Annexure I
2. Commercial Proposal – Annexure J

NPCI reserves the right to conduct Reverse Auction (RA) or Price discussion mechanism or both to arrive the exact price and successful bidder

Separate Agreement / MOU will be signed b/w NPCI and L1 post derivation of L1.

Bid Currency

All prices/rate shall be expressed in Indian Rupees only and should be exclusive of taxes.

Bid Language

RFQ Vendor Empanelment for providing Geo-Fence Data

The bid shall be in English Language.

Rejection of Bid

The bid is liable to be rejected if the bid document:

1. Does not bear signature of authorized person.
2. Is received through Fax / E-mail.
3. Is received after expiry of the due date and time stipulated for Bid submission.
4. Is incomplete / incorrect.
5. Does not include requisite documents.
6. Is conditional.
7. Does not conform to the terms and conditions stipulated in this Request for Quotation.
8. No bid shall be rejected at the time of bid opening, except for late bids and those that do not conform to bidding terms.

Deadline for Submission

The last date of submission of bids is given in Section 1. However, the last date of bid submission may be amended by NPCI and shall be notified through an addendum.

Extension of Deadline for submission of Bid

NPCI may, at its discretion, extend this deadline for submission of bids by amending the bidding documents which will be intimated through an addendum, in which case all rights and obligations of NPCI and Bidders will thereafter be subject to the deadline as extended.

Late Bid

Bids received after the scheduled time will not be accepted by the NPCI under any circumstances. NPCI will not be responsible for any delay due to postal service or any other means.

Modifications and Withdrawal of Bids

Bids once submitted will be treated, as final and no further correspondence will be entertained on this. No Bid will be modified after the deadline for submission of bids.

Right to Reject, Accept/Cancel the bid

NPCI reserves the right to accept or reject, in full or in part, any or all the offers without assigning any reason whatsoever.

NPCI does not bind itself to accept the lowest or any tender and reserves the right to reject all or any bid or cancel the tender without assigning any reason whatsoever. NPCI also reserves the right to re-issue the tender without the bidders having the right to object to such re-issue.

RFQ Abandonment

NPCI may at its discretion abandon the process of the selection of bidder at any time before notification of award.

RFQ Vendor Empanelment for providing Geo-Fence Data

Order Cancellation

NPCI reserves the right to cancel a purchase order issued pursuant to this RFQ in the event of one or more of the following situations, that are not occasioned due to reasons solely and directly attributable to NPCI alone:

1. Serious discrepancy in the quality of deliverables/service during engagement period.
2. If the successful Bidder makes any statement or encloses any form which turns out to be false, incorrect and/or misleading or information submitted by the successful Bidder turns out to be incorrect and/or the successful Bidder conceals or suppresses material information.

In case of purchase order cancellation before acceptance of the deliverables or services or both, any payment made by NPCI to the successful Bidder for the particular deliverable and service shall necessarily have to be returned to NPCI, at the option of NPCI, with interest @ 15% per annum from the date of each such payment. In addition to the refund as stipulated above, the successful Bidder shall also compensate NPCI for any direct loss incurred by NPCI due to the cancellation of the purchase order and any additional expenditure to be incurred by NPCI to appoint any other party for the provision of deliverables/services in place of the successful Bidder.

Confidentiality

Definition of Confidential Information. "Confidential Information" means information and data, of whatever nature, in whatever medium, whether now or hereafter developed, owned or acquired by NPCI ("Disclosing Party") that the Disclosing Party designates in writing as being confidential and discloses, whether directly or indirectly through a designee, to successful bidder ("Receiving Party") or which, under the circumstances surrounding the disclosure ought in good faith to be treated as confidential by the Receiving Party and includes, without limitation, information in writing, oral, graphic, electronic, tangible or intangible form, including, information relating to Disclosing Party's trade secrets (including program source code, object code and documentation, specifications, configurations), information related to Disclosing Party's business and finances, products or services, pricing, business plans, business processes, policies or practices, technology and systems. Confidential Information shall not include any information that (i) is or becomes publicly available without Receiving Party's breach of confidentiality obligation owed to the Disclosing Party hereunder; (ii) became known to Receiving Party, without obligation of confidentiality, prior to the Disclosing Party's disclosure of such information to Receiving Party pursuant to the terms of this RFQ/purchase order issued pursuant to this RFQ; (iii) became known to Receiving Party on a non-confidential basis from a source that was authorized in writing to disclose the information publicly; and/or (iv) is independently developed by Receiving Party without reference to the Confidential Information; provided that the Receiving Party can demonstrate, by written record, that it lawfully developed the information at issue with no access to and without the benefit of the Confidential Information. Confidential Information shall include any non-public personal information and data.

Receiving Party agrees and undertakes that it shall not, without first obtaining the written consent of the Disclosing Party, disclose or make available to any person, reproduce or transmit in any manner, or use (directly or indirectly) for its own benefit or the benefit of others, any Confidential Information save and except a party may disclose any Confidential Information to its directors, officers and employees ("Representatives") only on a "need to know" basis to enable them to evaluate such Confidential Information in connection with the purpose of the RFQ/purchase order; provided that such persons have been informed of, and they have agreed to be bound by confidentiality obligations which are at least as strict as the confidentiality obligations of the Receiving Party hereunder. The Receiving Party agrees that it shall be solely and entirely responsible for any breach of the terms of the purchase order issued under this RFQ by itself, or by its Representatives.

Receiving Party shall use the same degree of care and protection to protect the Confidential Information received by it from the Disclosing Party as it uses to protect its own Confidential Information of a like nature, and in no event such degree of care and protection shall be of less than a reasonable degree of care.

RFQ Vendor Empanelment for providing Geo-Fence Data

All Confidential Information is provided by the Disclosing Party "as is" without any express or implied representation or warranty as to the accuracy or completeness of the Confidential Information. The Disclosing Party shall not be in any way responsible for any decisions or commitments made by Receiving Party in relying on the Disclosing Party's Confidential Information. The Disclosing Party assumes no responsibility for any loss or damages which may be suffered by the Receiving Party, its customers or any third parties on account of or arising from the Confidential Information.

All Confidential Information disclosed or made available shall be and shall remain the property of the Disclosing Party and the Disclosing Party retains all right, title, and interest in the Confidential Information. Upon expiry or earlier termination of the purchase order issued pursuant to this RFQ, or at any time during its currency, at the request of the Disclosing Party, the Receiving Party shall promptly return to the Disclosing Party the Confidential Information and copies thereof in its possession or under its direct or indirect control, and shall destroy all memoranda, notes and other writings prepared by the Receiving Party or its Representatives based on the Confidential Information and promptly certify such destruction.

Without foregoing the generality of the above, the successful bidder shall keep the deliverables/reports, documentation created by successful bidder/submitted by NPCI & its Group Companies hereunder as confidential, for perpetuity and will not disseminate or allow access to the any reports and other deliverable prepared by successful bidder) and any documents and information received from NPCI & its Group Companies thereto to any third party. Successful bidder will be solely responsible for ensuring compliance of this clause.

Indemnity

The successful Bidder shall indemnify, protect and save NPCI and hold NPCI harmless from and against all claims, losses, costs, damages, expenses, action suits and other proceedings, (including without limitation reasonable attorney fees and other dispute resolution costs), relating to or resulting from (i) any act or omission of successful bidder, its employees, directors, officers, consultants, contractors and other representatives ("Personnel"), (ii) negligence, misconduct or fraud of successful bidder or its Personnel, (iii) breach of the terms and conditions of the RFQ/purchase order by successful Bidder or its Personnel, (iv) false statements by successful Bidder or its Personnel, (v) employment claims of the employees of successful Bidder, (vi) claims arising due to infringement of intellectual property rights of third party(ies), (vii) death, personal injury or property damage attributable to acts or omission of successful Bidder or its Personnel, (viii) violation of applicable statutory and/or regulatory laws/regulations including labour laws, laws related to information technology and intellectual property rights, (ix) breach of confidentiality obligations contained herein by successful bidder or its Personnel, (x) breach of the representations and warranties (express, implied or statutory), contained in this RFQ/subsequent purchase order.

RFQ Vendor Empanelment for providing Geo-Fence Data

Annexure A1 – Bidder's Letter for EMD

To
The Chief Executive Officer
National Payments Corporation of India,
1001A, B wing 10th Floor,
'The Capital', Bandra-Kurla Complex,

Subject: RFQ No. NPCI/RFQ/2021-22/NETC/01 dated 30.01.2023 for "Vendor Empanelment for providing Geo-Fence Data"

We have enclosed an EMD in the form of a Demand Draft No.____ issued by the branch of the _____Bank, for the sum of Rs. _____ (Rupees _____). This EMD is as required as per the Instructions to Bidders of the above referred RFQ.

Thanking you,
Yours faithfully,
(Signature of the Bidder)
Printed Name:
Designation:
Seal:
Date:
Business Address:

RFQ Vendor Empanelment for providing Geo-Fence Data

Annexure A2 - Bid Security (Bank Guarantee)

[Bank's Name, and Address of Issuing Branch or Office]

National Payments Corporation of India: _____

Date: _____

BID GUARANTEE No.: _____

We have been informed that _____ (hereinafter called "the Bidder") has submitted to you its bid dated (hereinafter called "the Bid") for the execution of _____ under RFQ No.

Furthermore, we understand that, according to your conditions, bids must be supported by a bank guarantee.

At the request of the Bidder, we _____ hereby irrevocably undertake to pay you without any demur or protest, any sum or sums not exceeding in total an amount of Rs. _____ /-(Rupees _____ only) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) Has withdrawn its Bid during the period of bid validity specified by the Bidder in the Form of Bid; or
- (b) having been notified of the acceptance of its Bid by NPCI during the period of bid validity, (i) fails or refuses to execute the Contract document; or (ii) fails or refuses to furnish the performance security, if required, in accordance with the Instructions to Bidders.

This guarantee will expire:

- (a) If the Bidder is the successful bidder, upon our receipt of copies of the contract signed by the Bidder and the performance security issued to you upon the instruction of the Bidder; or
- (b) if the Bidder is not the successful bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the successful bidder; or (ii) twelve months after the expiration of the Bidder's Bid.

Consequently, any demand for payment under this guarantee must be received by us at the Office on or before that date.

[Signature]

RFQ Vendor Empanelment for providing Geo-Fence Data

**Annexure A3 - Bid Security
(Performance Bank Guarantee)**

Date

Beneficiary: NATIONAL PAYMENTS CORPORATION OF INDIA
1001A, B wing 10th Floor,
'The Capital', Bandra-Kurla Complex,
Bandra (East), Mumbai - 400 051

Performance Bank Guarantee No:

We have been informed that------(hereinafter called "the Supplier") has received the purchase order no. "-----" dated ----- issued by National Payments Corporation of India (NPCI), for ----- (hereinafter called "the Purchase Order").

Furthermore, we understand that, according to the conditions of the Purchase order, a Performance Bank Guarantee is required to be submitted by the Supplier to NPCI.

At the request of the Supplier, We ------(name of the Bank , the details of its incorporation) having its registered office at ----- and, for the purposes of this Guarantee and place where claims are payable, acting through its ---- branch presently situated at - ----- (hereinafter referred to as "Bank" which term shall mean and include, unless repugnant to the context or meaning thereof, its successors and permitted assigns), hereby irrevocably undertake to pay you without any demur or objection any sum(s) not exceeding in total an amount of Rs.----- (in figures) (Rupees-----in words)----- only) upon receipt by us of your first demand in writing declaring the Supplier to be in default under the purchase order, without caveat or argument, or your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

Please note that you may, if you so require, independently seek confirmation with – (Bank Name & Issuing branch address) -----, that this Bank Guarantee has been duly and validly issued.

Notwithstanding anything contained in the foregoing:

The liability of ----- (Bank), under this Bank Guarantee is restricted to a maximum total amount of Rs. ----- (Amount in figures and words).

This bank guarantee is valid upto -----.

The liability of ----- (Bank), under this Bank Guarantee is finally discharged if no claim is made on behalf of NPCI within twelve months from the date of the expiry of the validity period of this Bank Guarantee.

Our liability pursuant to this Bank Guarantee is conditional upon the receipt of a valid and duly executed written claim or demand, by ----- (Bank)----- (Address), delivered by hand, courier or registered post, or by fax prior to close of banking business hours on ----- (date should be one year from the date of expiry of guarantee) failing which all rights under this Bank Guarantee shall be forfeited and ----- (Bank), shall stand absolutely and unequivocally discharged of all of its obligations hereunder.

This Bank Guarantee shall be governed by and construed in accordance with the laws of India and competent courts in the city of Mumbai shall have exclusive jurisdiction.

Kindly return the original of this Bank Guarantee to ----- (Bank & Its Address), upon (a) its discharge by payment of claims aggregating to Rs. ----- (Amount in figures & words); (b) Fulfillment of the purpose for which this Bank Guarantee was issued; or (c) Claim Expiry Date (date should be one year from the date of expiry of this Bank Guarantee).

All claims under this Bank Guarantee will be payable at ----- (Bank & Its Address).

{Signature of the Authorized representatives of the Bank}

RFQ Vendor Empanelment for providing Geo-Fence Data

Annexure A - Bid Offer Form (without Price)

(Bidder's Letter Head)

OFFER LETTER

Date:

To
The Chief Executive Officer
National Payments Corporation of India
1001A, B wing 10th Floor,
'The Capital', Bandra-Kurla Complex,
Bandra (East), Mumbai - 400 051

Dear Sir,

Subject: RFQ No. NPCI/RFQ/2021-22/NETC/01 dated 30.01.2023 for "Vendor Empanelment for providing Geo-Fence Data"

We have examined the above referred RFQ document. As per the terms and conditions specified in the RFQ document, we acknowledge having received the following addenda / corrigenda to the RFQ document.

Addendum No. / Corrigendum No.	Dated

While submitting this bid, we certify that:

1. Prices have been quoted in INR.
2. The prices in the bid have not been disclosed and will not be disclosed to any other bidder of this RFQ.
3. We have not induced nor attempted to induce any other bidder to submit or not submit a bid for restricting competition.
4. We agree that the rates/quotes, terms and conditions furnished in this RFQ are for NPCI and its associates.

If our offer is accepted, we undertake, to start the assignment under the scope immediately after receipt of your order. We also note that NPCI reserves the right to cancel the bid and bid cancellation clause as per terms and condition of the bid documents would be applicable. We understand that for delays not attributable to us or on account of uncontrollable circumstances, penalties will not be levied, and that the decision of NPCI will be final and binding on us.

We agree to abide by this offer till one hundred and eighty (180) days from the last date stipulated by NPCI for submission of bid, and our offer shall remain binding upon us and may be accepted by NPCI any time before the expiry of that period.

Until a formal contract is prepared and executed with the selected Bidder, this offer will be binding on us. We also certify that the information/data/particulars furnished in our bid are factually correct. We also accept that in the event of any information/data/particulars are found to be incorrect, NPCI will have the right to disqualify/blacklist us and forfeit bid security.

We undertake to comply with the terms and conditions of the bid document. We understand that NPCI may reject any or all of the offers without assigning any reason whatsoever.

Yours sincerely,
Authorized Signature [In full and initials]:
Name and Title of Signatory:
Name of Company/Firm:
Address

RFQ Vendor Empanelment for providing Geo-Fence Data

Annexure B - Bidder Information

Details of the Bidder		
1	Name of the Bidder	
2	Address of the Bidder	
3	Constitution of the Company (Public Ltd/ Pvt Ltd)	
4	Details of Incorporation of the Company.	Date:
		Ref#
5	Valid Sales tax registration no.	
6	Valid Service tax registration no.	
7	Permanent Account Number (PAN)	
8	Goods & Services Tax (GST) Registration Numbers	
9	City	
10	State	
11	Pin Code / State Code	
12	GSTIN Number	
13	HSN Number	
14	Name & Designation of the contact person to whom all references shall be made regarding this tender	
15	Telephone No. (Cell # and Landline # with STD Code)	
16	E-Mail of the contact person:	
17	Fax No. (with STD Code)	
18	Website	

RFQ Vendor Empanelment for providing Geo-Fence Data

Annexure C - Declaration for Clean Track Record

To

The Chief Executive Officer
National Payments Corporation of India
1001A, B wing 10th Floor,
'The Capital', Bandra-Kurla Complex,
Bandra (East), Mumbai - 400 051

Sir,

I have carefully gone through the Terms & Conditions contained in the **NPCI/RFQ/2021-22/NETC/01 dated 30.01.2023 for "Vendor Empanelment for providing Geo-Fence Data"**. I hereby declare that my company has not been debarred/black listed by any Government / Semi Government / Private organizations in India/abroad. I further certify that I am competent officer and duly authorized by my company to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Printed Name

Designation

Seal

Date:

Business Address:

RFQ Vendor Empanelment for providing Geo-Fence Data

Annexure D - Declaration for Acceptance of RFQ Terms and Conditions

To

The Chief Executive Officer
National Payments Corporation of India
1001A, B wing 10th Floor,
'The Capital', Bandra-Kurla Complex,
Bandra (East), Mumbai - 400 051

Dear Sir,

I have carefully gone through the Terms & Conditions contained in **NPCI/RFQ/2022-23/NETC/01 dated 30.01.2023 for "Vendor Empanelment for Geo-Fence Data"**. I declare that all the provisions of this RFQ/tender document are acceptable to my company. I further certify that I am an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Printed Name

Designation

Seal

Date:

Business Address:

RFQ Vendor Empanelment for providing Geo-Fence Data

Annexure E - Declaration for Acceptance of Scope of Work

To

The Chief Executive Officer
National Payments Corporation of India
1001A, B wing 10th Floor,
'The Capital', Bandra-Kurla Complex,
Bandra (East), Mumbai - 400 051

Sir,

I have carefully gone through the Scope of Work contained in **NPCI/RFQ/2022-23/NETC/01 dated 30.01.2023 for "Vendor Empanelment for providing Geo-Fence Data"**. I declare that all the provisions of this RFQ/tender document are acceptable to my company. I further certify that I am an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder)
Printed Name
Designation
Seal
Date:
Business Address:

RFQ Vendor Empanelment for providing Geo-Fence Data

Annexure F - Format Power of Attorney for signing of Bid

(On Stamp paper of relevant value)

Know all men by the present, we _____ (name of the company and address of the registered office) do hereby appoint and authorize _____ (full name and residential address) who is presently employed with us holding the position of _____ as our attorney, to do in our name and on our behalf, deed and things necessary in connection with or incidental to our proposal for **NPCI/RFQ/2022-23/NETC/01 dated 30.01.2023 for "Vendor Empanelment for providing Geo-Fence Data"** in response to the RFQ by NPCI, including signing and submission of all the documents and providing information/responses to NPCI in all the matter in connection with our bid. We hereby agree to ratify all deeds and things lawfully done by our said attorney pursuant to this power of attorney and that all deeds and things done by our aforesaid attorney shall always be deemed to have been done by us.

Dated this _____ day of _____ 2023.

For _____.

(Signature)

(Name Designation and Address)

Accepted

(Signature)

(Name Designation)

Date:

Business Address:

RFQ Vendor Empanelment for providing Geo-Fence Data

Annexure G - Eligibility Criteria Compliance

Sr. No.	Description	Complied with statement (Y / N)	Proof Attached
1	The Bidder must be entity incorporated for doing business in India and should be able to provide the data as mentioned above		Bidders confirmation on their letter head.
2	The Bidder should not be currently blacklisted by government/government agency/bank/institution in India		Declaration as per Annexure C
3	The bidder shall have successfully completed at least one similar work during the last 5 years and for an amount not less than INR 75 lakhs.		Certificate of completion

RFQ Vendor Empanelment for providing Geo-Fence Data

Annexure H – SLA Acceptance

The Chief Executive Officer
National Payments Corporation of India
1001A, B wing 10th Floor,
'The Capital', Bandra-Kurla Complex,
Bandra (East), Mumbai - 400 051

Sir,

I have carefully gone through the SLA in **NPCI/RFQ/2022-23/NETC/01 dated 30.01.2023 for "Vendor Empanelment for providing Geo-Fence Data"**. I hereby declare that we have gone through the SLA terms and abide by the same. In case the service levels defined cannot be achieved, it shall result in a breach of contract and invoke the penalty.

Yours faithfully,
(Signature of the Bidder)
Printed Name
Designation
Seal
Date:

RFQ Vendor Empanelment for providing Geo-Fence Data

The resume of each of the participating staff shall be provided. The resume shall contain the staff identification details (name, title, DOB, citizenship), education, experience in the relevant fields, past assignments that enable the staff to contribute in this work. Also, provide exact assignment (w.r.t D1 through D5) in which the staff shall be contributing to.

Annexure K5: Details of Similar Work Experience

Sl. No.	Name of the client	Project Name	Value (INR)	Status (completed/in-progress)	Supporting documents as proof (work order/completion certificates/MoU)

Without the supporting documents such as work order/MoU/completion certificate for relevant assignment executed in last 5 years, the response would be treated as incomplete.

Technical Evaluation

Only those bidders who have successfully qualified in "Eligibility Criteria" will be considered for Technical Evaluation

The Technical capabilities of the bidder will be judged according to the criteria of Annexure K2 to K5 and will be ranked on points obtained as per Table 2.

Sr.no	Criteria in K2	Criteria in K3	Criteria in K4	Criteria in K5	Total
1	_/10	_/10	_/10	_/10	_/40
2	_/10	_/10	_/10	_/10	_/40
3	_/10	_/10	_/10	_/10	_/40

Minimum Cut Off for Technical Eligibility is 60% i.e. "24". Any bidder seeking more than or equal to 24 will be further consider for "Commercial Evaluation."

L1 Evaluation - Final Technical Evaluation

Final Evaluation for deriving L1 will be through Reverse Auction amongst the bidders who have successfully qualified for "Eligibility and Technical" Criteria

RFQ Vendor Empanelment for providing Geo-Fence Data

- However, the final decision for deriving L1 remains with NPCI. Also the decision of NPCI on rejection of bid shall be final and binding on the bidder and grounds of rejection of Bid should not be questioned during/after the final declaration of the successful Bidder

To be put in Envelope “C” Commercial Bid

Annexure I – Commercial Format

Only bidders who have successfully qualified in “Technical Criteria” will be considered for Commercial Evaluation.

Commercial BID

Quotation for Tolling use case - Entire NH & SH		
Length in Kms*	Quote per Km	Total
Up to 7,00,000		

*covers to & fro of tollable roads

It is important to note that Quote / Km cannot exceed **INR 75 per Km** (exclusive of taxes)

Note:

- Bidders should ensure that for tolling use case below mentioned parameters are mandatory:
- Centre Line Data for NH and SH pan India
- Polygonised data for all and SH pan India (Shape Files and KML file)
- Virtual Gantries for all Exits and Entry Points (Junctions) with in the toll area (Shape Files and KML file)
- List of Entry and Exist Points along with Distance to each Entry/Exit Points
- Ground Verification for Virtual Gantries along with 360° Photograph of the locations. (Shape Files and Ground Positioned Photo of Locations) along with verification of Entry / Exit points with Mile Stone Photo Graphs.

Timelines for delivery of the project - Delivery of the entire project (all parameters as mentioned in the RFQ document should be within 30 – 180 days)

Quotation for Non Tolling use case - Parking plazas, Fuel stn, EV charging stn, etc		
No of Plazas	Quote per Plaza	Total
Up to 2,50,000		

It is important to note that Quote / plaza cannot exceed **INR 225 per plaza** (exclusive of taxes)

Bidders should ensure that for non-tolling use case below mentioned parameters are mandatory:

- Polygonised data for all and SH pan India (Shape Files and KML file)
- Virtual Gantries for all Exits and Entry Points (Junctions) with in the toll area (Shape Files and KML file)

RFQ Vendor Empanelment for providing Geo-Fence Data

- Ground Verification for Virtual Gantries along with 360° Photograph of the locations. (Shape Files and Ground Positioned Photo of Locations) along with verification of Entry / Exit points with Mile Stone Photo Graphs
- Bidder to provide a suitable method to verify the data for acceptance

Other imp note:

Prices to be quoted exclusive of taxes

Bidder should also provide per km cost for toll use case & cost per plaza for non tolling use cases for deployment in future if required

Bidder should factor in all its administration & other expenses in the quote provided

There shall be no increase in the price quoted for Tolling & non tolling use cases for any reason whatsoever during the tenure of the proposed detailed agreement and therefore will be applicable for future activity as well (if required)

Map information should provide latitude, longitude and altitude

Timelines for delivery of the project - Delivery of the entire project (all parameters as mentioned in the RFQ document should be within 30 – 180 days)

Commercial Evaluation

NPCI shall be conducting a reverse auction for the said RFQ. Bidder should submit their best price which should be equal to or lower than the price mentioned by NPCI in Annexure I. Bidder who has quoted the lowest bid on the basis of the assessment made by NPCI will be declared as the successful evaluated bidder who will be called L1 Bidder. NPCI reserves the right to place the Order with the L2 bidder, in case the L1 bidder refuses to accept the Order or otherwise. If first Reverse Auction does not result successful, NPCI reserves the right to call technical qualified bidders for price discussion and declare the successful bidder through Price discussion method instead of conducting 2nd Reverse Auction. The decision with respect to conduct of 2nd Reverse Auction or otherwise shall be communicated to technically qualified bidders

RFQ Vendor Empanelment for providing Geo-Fence Data

Annexure J - Commercial Proposal (To be included in Commercial Bid Envelope)

To:

Date:

NPCI

Dear Sir,

Re: Vendor Empanelment for providing Geo-Fence Data

Having examined the Bidding Documents placed along with RFQ, we, the undersigned, offer to provide the Geo Fence Data in conformity with the said Bidding documents as under:

For Tolling:

- Bidders should ensure that for tolling use case below mentioned parameters are mandatory:
- Centre Line Data for NH and SH pan India
- Polygonised data for all and SH pan India (Shape Files and KML file)
- Virtual Gantries for all Exits and Entry Points (Junctions) with in the toll area (Shape Files and KML file)
- List of Entry and Exist Points along with Distance to each Entry/Exit Points
- Ground Verification for Virtual Gantries along with 360° Photograph of the locations. (Shape Files and Ground Positioned Photo of Locations) along with verification of Entry / Exit points with Mile Stone Photo Graphs.

Timelines for delivery of the project - Delivery of the entire project (all parameters as mentioned in the RFQ document should be within 30 – 180 days)

For Non Tolling:

It is important to note that Quote / plaza cannot exceed INR 225 per plaza (exclusive of taxes)

Bidders should ensure that for non-tolling use case below mentioned parameters are mandatory:

- Polygonised data for all and SH pan India (Shape Files and KML file)
- Virtual Gantries for all Exits and Entry Points (Junctions) with in the toll area (Shape Files and KML file)
- Ground Verification for Virtual Gantries along with 360° Photograph of the locations. (Shape Files and Ground Positioned Photo of Locations) along with verification of Entry / Exit points with Mile Stone Photo Graphs
- Bidder to provide a suitable method to verify the data for acceptance

Other imp note:

Prices to be quoted exclusive of taxes

RFQ Vendor Empanelment for providing Geo-Fence Data

Bidder should also provide per km cost for toll use case & cost per plaza for non tolling use cases for deployment in future if required

Bidder should factor in all its administration & other expenses in the quote provided

There shall be no increase in the price quoted for Tolling & non tolling use cases for any reason whatsoever during the tenure of the proposed detailed agreement and therefore will be applicable for future activity as well (if required)

Map information should provide latitude, longitude and altitude

Timelines for delivery of the project - Delivery of the entire project (all parameters as mentioned in the RFQ document should be within 30 – 180 days)

We undertake, if our Bid is accepted, to provide _____ for the above purpose within the stipulated time schedule.

We agree to abide by the bid and the rates quoted therein for the orders awarded by NPCI up to the period prescribed in the Bid which shall remain binding upon us. Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award, shall constitute a binding contract between us.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the applicable laws, including laws against fraud and corruption in force in India. We have complied with all the terms and conditions of the RFQ. We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this..... Day of.....2023.

(Signature)

(Name●)

Duly authorized to sign Bid for and on behalf of

(In the capacity of●)

Annexure K1: Gantries Classifications

Each Virtual Gantry shall be classified as one of the following. The definitions are illustrated with examples below.

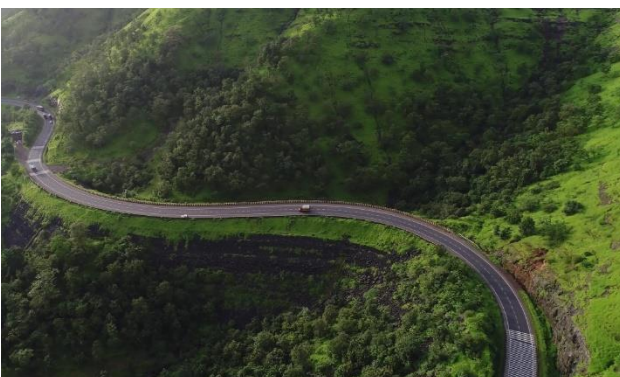
- a) **Open Sky:** there are no obstructions to receive the signals from the GNSS satellites in and around the virtual gantry.



- b) **Tree cover/ Forest cover:** Virtual gantry location is surrounded by tall trees such that the GNSS satellites signals must pass through the trees before reaching the GNSS device used.



- c) **Mountains cover on one/two sides:** Virtual gantry location is covered by a mountain region on side such that GNSS signals are blocked by mountains on one side (left or right) or on both sides (left and right).



RFQ Vendor Empanelment for providing Geo-Fence Data



- d) **Inside the tunnel:** The virtual gantry is located within a tunnel where GNSS signals are completely blocked by the tunnel.



- e) **Entry/Exit of the tunnel:** virtual gantry is situated at the entry/exit of the tunnel.



- f) **Under bridges/fly-overs:** virtual gantry is located under a bridge or fly-over such that GNSS signals are either partially blocked or completely blocked.

RFQ Vendor Empanelment for providing Geo-Fence Data



g) **Parallel tollable-roads:** two virtual gantries located on parallel roads that are tolled.



h) **Urban canyon:** virtual gantries that are located in urban areas surrounded by tall buildings



An example of the table that contains the virtual gantry classification data is shown below:

RFQ Vendor Empanelment for providing Geo-Fence Data

Sl. No.	Plaza Name	Plaza ID	Type	Classification	Virtual gantry names that are within 30m (radial) from the current gantry	Any additional information
1	Existing Plaza-1	12345	Physical	Open-sky		
2	Existing Plaza-2	45687	Physical	Inside Tunnel		
3	New Virtual Plaza	None	Virtual	Tunnel Entry/Exit		
...						
...						
...						

Plaza Name column captures the name associated with that plaza.

Plaza ID column captures any acronym or ID associated with that plaza.

Type column captures whether the plaza is a physical structure based or virtual.

Classification contains one of the categories discussed above.

Virtual gantry names that are within 30m (radial) from the current gantry column lists the names of the virtual gantries that are within 30m radial distance from the plaza listed in column **Plaza Name column**

Any additional information column captures any additional information that is relevant towards GNSS based tolling.

The information in the table shall be captured as features of the gantries in the database.

Annexure L

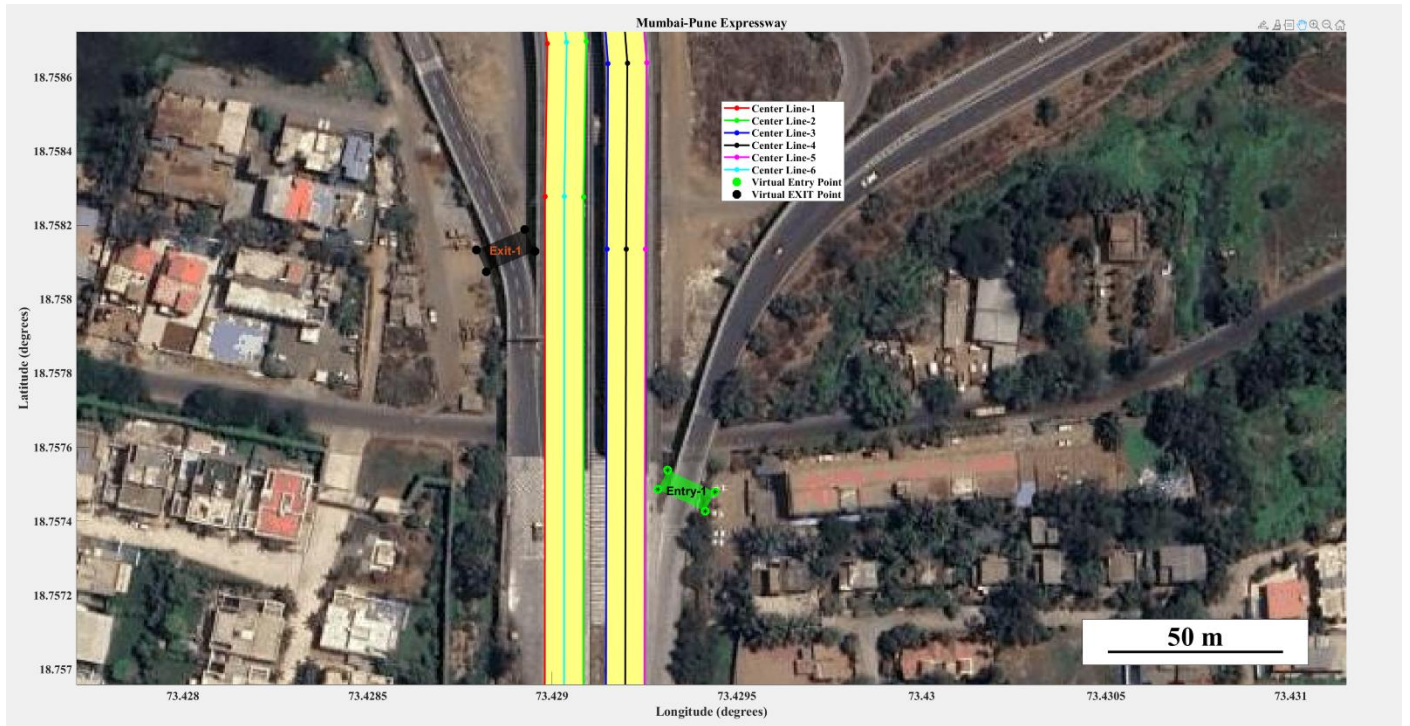
a. Example virtual gantry definition at the entrance (in green) or exit (in black) of the tollable road and also the polygon data (in yellow)



b. Example virtual gantry definition at the intersection of the tollable and non-tollable roads



RFQ Vendor Empanelment for providing Geo-Fence Data



c. Example of center-line data showing sufficient data points (variable sample distance) to capture the non-linearities in the road.

