

Infrovate

S.No	Clause No	Description of Query / Comment / Request for Clarification	Clarification by IHMCL
1		1) In a consortium, do both partners need an office in India or is one enough?	At least one of the partners shall have an office in India
2		The RFP is currently asking only for process and pricing without specifications of equipment. This may not yield the standard best result as quotes for equipment may not be of the optimum parts for long life. Will IHMCL release specifications so that the parts quoted are at least meeting basic requirements of performance and quality.	The RFP includes detailed specifications of equipment. The bidder shall refer to section 6. Hardware and Subsystem requirements and specifications
3		Will IHMCL encourage alternate lane deployment with more efficient ways of implementing ETC or is the provided lane diagram the only way. From our experience - we see that we can provide a more efficient solution to meet exact needs of IHMCL. Can we proposed that or should we limit to only responding to what is mentioned in the RFP?	The solution offered by the bidder shall meet the requirements described in the RFP and in subsequent corrigenda and clarifications
4		<ol style="list-style-type: none"> 1. Is NHAI open to suggestions on the lane model proposed, or has it been frozen? 2. Kindly define the scope of proof of concept & the tests that will need to be satisfied. 3. Please define standard specifications for the various items in the Bill of Materials? 	<ol style="list-style-type: none"> 1. The bidder shall refer to the response above under Sl. No 3 of this clarifications document. 2. The demonstration of the proof-of-concept by the bidder shall adequately prove <ul style="list-style-type: none"> - The bidder's correct understanding of the requirements

		<p>4. Does the Incident Capture camera need to have intelligence built in for Automatic License Plate Recognition?</p>	<ul style="list-style-type: none"> - That the bidder's proposed solution meets the RFP requirements with a focus on <ul style="list-style-type: none"> A) Automatic and smooth segregation of vehicles with valid tags and otherwise, in the ETC lane at a speed of at least 60 km/h B) Accurate Automatic Vehicle identification during the above C) Accurate Capture of transactions D) Using an AVC to generate class violation transactions in the Toll Plaza ETC system under POC. E) Effectiveness of the AVC sensors to detect the required vehicle classes F) Capture of vehicle images during above violations G) Effective reading of a vehicle tag using a hand-held RFID reader. H) Synchronized Operation of lane Peripherals like Traffic Light etc. <p>The bidder shall submit a detailed test plan for pre-approval by IHMCL before the POC tests. The test plan shall cover the above as well as all functional aspects of the ETC lane as covered in the RFP.</p> <p>3. Adequate specifications are provided in the RFP document and the bidder shall quote for the same.</p> <p>4. The Incident Capture camera need not have intelligence for Automatic License Plate Recognition.</p>
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Schneider electric

COMMERCIAL

S.No	Clause No / Reference	Description of Query / Comment / Request for Clarification	Clarification by IHMCL
5	Page 5 Last Paragraph	Pls clarify that that the successful bidder of the first contract L1 will be excluded for executing the rest of the remaining plazas or not.	The bidder shall refer to Corrigendum 2, Sl.No. 1
6	Page 5 Last Paragraph	Pls give the name of plaza and existing facility available over there.	The bidder shall refer to Corrigendum 2, Sl. No. 1
7	Page 5 Last Paragraph	Performance Guarantee. According to the RFP: 10 lakhs per site. Does it means that for the 1.st contract, the total amount is 10 lakhs x 50 plazas = 500 lakhs?Pls, confirm the performance guarantee of the first contract?	The bidder shall refer to Corrigendum 2 Sl. No. 1 and Corrigendum 2 Sl. No. 44
8	Page 9 Item 3.4. Award of Contract	Pls Clarify if the first 50 public- funded plazas will be awarded to only one contractor/bidder or will be divided into various selected bidders who so ever match L1 prices.	The bidder shall referto Corrigendum 2, Sl.No. 1
9	Page 8 Item 3.3 Bid evaluation	Clarify the scope of the proof of concept of the Toll Plaza ETC. What does it include?	Please refer to this clarifications document, sl.no 4
10	Page 6 Item 3.2 and page 64	Pls Confirm if the operation of the ETC Plazas is	Operation of the ETC Plaza is included in the

	Item 7.1.2 Scope of Works	included in the scope of works. At the item 3.2 d) operation is included, however in the item 7.1.2 is not included.	scope of work of the bidder.
11	Page 115 Item 7.2.1 Guarantees	Confirm the Validity period of the Performance Bank Guarantee of Rs.10 Lakh per site.	please refer Corrigendum 2, Sl. No 44
12	Page 119 Item 7.2.3 Payment Terms	Pls consider the payment terms in following manner .This is calculated on the basis of total project completion with in one year from the date of Empanelment. 10% Advance against ABG 20% against Design and engineering 30% against Pro rata delivery. 20% against Installation and integration with CCH 20% against successful system testing and commissioning	As per the RFP
13	Page 122 Project Milestones	Please, clarify the relationship between contract and empanelment.	The empanelment of bidders will be performed by IHMCL as described in corrigendum 2, Sl. No 1. The contract for the specific plazas will be awarded and managed by the CCH provider.
14	Page 122 Project Milestones	Pls clarify that contract and empanelment will be finalized under bid validity time of 90 days from the date of bid submission.	IHMCL intends to finalize the empanelment within 6 weeks from the date of receipt of bids.
15	Page 122 Project Milestones	when will we signed the contract for an specific toll plaza with CCH? Right after the approval of the item 2 of the Project milestones?	Contract may be signed anytime after empanelment
16	Page 122 Project Milestones	How is the plaza will be awarded. (I.e. Scattered all over India, Specific to one Zone, Specific to one concessionaire and etc). What will be the minimum no. of toll plaza be awarded to contractor on rotational basis..	The bidder shall refer to Corrigendum 2, Sl. No 1.
17	Page 122 Project Milestones	Clarify if the period days are calculated on the basis of calendar days or working days	Calendar days
18	Page no.117,Custom duty	Pls clarify whether we get the custom duty	Pleaserefer Corrigendum 2, Sl. No. 1

	exemption.	exemption for imported items and road permit for smooth transportation of material.	
19	Pg no.119, BOQ, item no.7.2.2.3	Pls clarify that the BOQ has been asked to quote for 50 Plaza of 2 lanes each(i.e 100 lanes). Because calculation of single Plaza will be different as compare to calculation of 50 toll plaza.	As per RFP and Corrigendum
20	Pg no.119, BOQ, item no.7.2.2.3	Pls clarify whether O&M charges for 5 years shall be calculated under L1 prices or separately. Pls clarify the basis of L1.	The bidder shall refer to Corrigendum 2, Sl. No 1 and to Format (E) : Financial Proposal (included in Corrigendum 2)
21	Pg no.66 item no.7.1.2.5,7.1.2.6,7.1.2.7,7.1.2..8 Scope of work	Pls clarify about the support from i-Existing TMS provider company ii-CCH iii- Concessionaire.	The bidder shall refer to Corrigendum 2, Sl. No. 6 on interfacing with an existing TMS. The bidder shall also refer to Corrigendum 2, Sl. No 32 & Corrigendum 2, Sl . No. 33.
22	Pg no.66 item no.7.1.2.5, 7.1.2.6, 7.1.2.7, 7.1.2..8 Scope of work	Pls clarify, whether Existing TMS company and CCH will share the source code and Protocol to integrate the system.Pls clarify that the delay due to CCH ,Exiting TMS company and Concessionaire should not be levied on contractor.	Please refer clarification no 21 of this document.
23	Pg no.82, item no.7.1.18 Coordination of works.	Pls clarify what all the coordination support will be given by CCH, Concessionaire and Existing TMS agency.	Please refer clarification no 21 of this document.
24	Pg no.82, item no.7.1.18 Coordination of works.	Pls clarify that all the local legal approval shall be borne by CCH(I.e.IHMCL)	Please refer clarification no 21 of this document.
25	Pg no.108,Item no.7.1.48 Onsite support	Pls clarify what all the support from CCH, Concessionaire and Existing TMS agency will be provided to contractor.	Please refer clarification no 21 of this document.
26	pg no9 Item no. 3.5 Schedule of events	Pls extend the date of bid submission by 6 weeks from 28 June 2013.Pls change it as 10 Aug,2013. This is required to understand the plaza location, existing facility and local partnering.	As per the RFP
27	Bid submission	Since Telvent and Schneider belong to the same parent company, could Schneider submit the bid presenting Telvent's references to justify the technical capacity?	Yes, if Telvent is 100% owned by Schneider

28	Project Milestones	We have several problems to understand the project milestones, specially we need to clarify the following period: - Item 5: Supply, Installation, System Integration, Testing, Commissioning for the specific plaza ----- T contract + 90 days	The contractor needs to commission the ETC lane system within a period of 90 days from the date of signing the contract with the CCH Contractor or being awarded the Letter of Award (LOA), whichever is earlier. Also please refer Corrigendum 2, Sl.No. 60.
29	Project Milestones	What does it mean "Specific plaza" ? Does it refer 90 days for the execution of only one plaza?, or How many plazas should be installed in 90 days? Which is the estimated time for IHMCL for commissioning the 50 plazas?	The bidder shall refer to Corrigendum 2, Sl. No. 1, Corrigendum 2, Sl. No. 60 and quote as per the RFP.The Contract / LOA may relate to one or more toll plazas.

TECHNICAL

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30	Page 6 Item 3.2. Scope of Work. 'For this purpose the bidder shall provide the required interfaces to his system and extend the necessary support (at no extra cost) for establishing the required connectivity with the existing Toll Plaza TMS. '	What interfaces must we provide? Will the provided ETC Toll Plaza have a different interface with CCH and with the concessionaire's existing toll management system (TMS)?	The bidder shall refer to Corrigendum 2, Sl. No. 6.
31	Page 11 Item 4.2. " ... concessionaire portal",	is part of the CCH?	The concessionaire portal is part of the CCH
32	Page 13 Item 5.1, second paragraph "... Valid RFID tags	Q. How is this validated? What do we have to check to know that the tag belongs to	The format of the Tag contents that will be created by the CCH when issuing the Tag as well as theTag

	(genuinely belonging to IHMCL ETC program...”	IHMCL ETC program? Will we receive some kind of issuers list? Is there any on-line validation?	Authentication algorithm will be shared with the successful bidders.
33	Same as above	What happens if RFID transceiver #1 reads the tag correctly, but then RFID transceiver #2 can not read it?	The transaction can be formed using the reading from the first transceiver and sent to the CCH along with the vehicle image for verification. The CCH will handle this as a special case under violation management
34	Same as above	What is the difference in the data read from both transceivers?	The data read from the first transceiver shall be used only for validation / Tag Authentication while the data read from the second transceiver shall be used for generating the ETC transaction. A two transceiver design is proposed to ensure system integrity with respect to related Toll Collection rules of MORTH, handling special use cases like vehicle tailgating & equipment failure as well as to ensure functional clarity.
35	Same as above	Can we propose a different lane design, with only one transceiver? We already designed a dynamic lane with escape exit in Ireland. In our design, with equivalent functionality we don't need the second transceiver. Is acceptable our approach?	The bidder shall respond to the lane design given in the RFP
36	Page 28 Item 5.5 Interface with the CCH. Transaction reconciliation files.	What must the ETC Toll Plaza do with these files?	The Toll Operator can use an appropriate feature in the ETC Toll Plaza system to obtain from these files a) Which transactions have been accepted by the CCH for clearing and settlement. Claims can then be generated on the CCH

			<p>appropriately for valid transactions that have not been accepted by the CCH for clearing and settlement.</p> <p>b) Obtain an estimate of ETC revenue</p>
37	Same as above	Will this be the interface method with the concessionaire's existing toll management system (TMS)?	The bidder shall refer to Corrigendum 2, SI. No. 6.
38	5.- Page 29 Item 5.6.3.1. The System shall: (i) have functionality to feed in transaction data through Hand-held devices and manually entry of Registration no. of vehicles.	For the manually entry of Registration number of vehicles, is it mandatory to be done at the lane level? Or is it possible to enter the registration number only at the ETC Toll Plaza?	The bidder shall refer to Corrigendum 2, SI. No. 10.
39	Page 33 Item 6.3.1.4. ... " like ETC Black list, white list, discount list, etc "	<p>Who provides the White list? How is it used?</p> <p>Who provides the Discount list? How is it used?</p> <p>How is obtained the class from the tag? Is from the white list or from the tag data?</p>	<p>The white list will be provided by the CCH and regularly updated for appropriate use by Tag Authentication Algorithm.</p> <p>Discount list also will be provided and regularly updated by the CCH. Class is obtained from Tag data / contents.</p>
40	Page 33 Item 6.3.1.4. Each transaction data collected from the lane peripherals shall be stored in the local hard disk of the TLC in a separate encrypted file placed in a folder automatically created with the month's name at the start of each month, ...	Is this mandatory ?	As per RFP
41	Page 33 Item 6.3.1.5. Further, there should be a mechanism for auditing the real time data transmission (including incidents)	What does it mean?	This is a process to ensure that all data in the lane controller have completely reached the local ETC server

	over a predetermined time period (say 30 minutes) and automatic data retrieval from the lane in case of data mismatch.		
42	Page 34 Item 6.3.1.10 Transactions and incidents shall refer to the applicable financial entity in which they occur.	What is the financial entity?	The bidder shall refer to corrigendum 2, Sl. No. 14.
43	Page 1 Item 6.4.1 The AVC system shall be 100% auditable	What is classification based on? Axles, double wheels??? Is vehicle profile needed? Is it mandatory to have a separate avc controller? What is the purpose of having a separated avc controller, if there is no collector? Our system integrates AVC and Lane Controller all in a single equipment. Under our point of view this is an advantage but we don't know if the separated architecture is mandatory or not.	As per RFP
44	Page 38 Item 6.4.4.1.1. The AVC shall be able to automatically classify the classes of vehicles as indicated in the vehicle class table to an accuracy of 99.60% 6.4.1. classification accuracy shall not be less than 98%.	Q Which is correct?	The bidder shall refer to corrigendum 2, Sl. No. 19. and Corrigendum 2, Sl. No. 20
45	Page 40 Item 6.4.4.9 Number of Axles per vehicle is accurately counted for every	How is the number of axles counted? With an Optical Barrier or with Treadles?	The bidder shall provide an AVC system to meet the counting and classification accuracy as well as other related requirements specified in the RFP.

	vehicle passage		
46	Page 46 Item 6.14. Frame / Video Grabber	Confirm that this system is independent from the ETC plaza server. That is, the images and videos stored here do not need to be accessed from the ETC plaza server.	The bidder shall offer a solution to meet the RFP requirements
47	Same as above	Confirm that the transactions will have associated one image from the License Plate Image Capture Cameras and one from the incident capture system.	Yes. One or more images from each camera shall be captured to aid violation / incident management at the Toll Plaza.
48	Page 47 Item 6.15.5. The reader shall have adequate interfaces for data transfer to / from a host computer for the purposes of uploading transactions and downloading blacklists.	What host computer must the hand-held interface with?	The local ETC server.
49	Page 47 Item 6.16.2. There shall be a separate partition for Operating System.	Is this mandatory ?	The bidder shall quote as per the RFP
50	Page 49 Item 6.18.1. A separate secure external HDD shall be supplied for storing	... Must these processes of storing and restoring be automatic processes, or can they be manual?	These processes can be manual or automatic as long as they do not affect the operations of the ETC Toll Plaza system.
51	Page 52 Item 6.26.1 definitive positive / negative confirmation only.	What does it mean ?	The clause is adequately clear in its meaning. An example would be during a violation audit by the system supervisor, the system shall respond only to specific positive and negative confirmation to accept decisions by the supervisor. The bidder shall quote as per the RFP.

52	Page 56 Item 6.27.2.5. It shall not be possible for the media to be requested for block to CCH.	What does it mean?	The bidder shall refer to corrigendum 2, Sl. No. 31.
53	Page 58 Item 6.28.4.3 Debt recovery	What is Debt Recovery ?	This feature is used to support claims (on the CCH) management by the Toll Operator
54	Page 59 Item 6.28.6.1 ... the old fares and contracts....	What are the contracts?	These include monthly passes, local discounts etc.
55	Page 61 Item 6.28.11 Incident recording	Does it mean a video sequence recording? Is it associated to the transaction? How?	The clause refers to image capturing to be associated to the concerned transaction.
56	Page 66 Item 7.1.2.5. The Contractor is incharge of the systems integration and migration of existing interfaces at LANE Infrastructure and Toll Management System (TMS)	What does it mean ?	The bidder shall refer to corrigendum 2, Sl. No. 32.
57	Page 66 Item 7.1.2.6 . The Contractor is incharge of coordination and system integration with CCH/BoT/OMT and Public Funded Plazas	What does it mean ?	The bidder shall refer to corrigendum 2, Sl. No. 33.
58	Page 75 Item 7.18 f) The Bidder shall ensure that all security configurations are in line with security policy and IT policy.	Where are those policies defined?	The bidder shall propose own IT security policy for the approval of CCH / IHMCL

ILFS

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59	<p>With this objective IHMCL is in the process of engaging agencies for:</p> <p>(a) Providing Central Clearing House (CCH) services on a national level for Back-office functions like user account management, transaction processing, settlement and reconciliation etc.</p> <p>(b) Tag Distribution through Point of Sale (POS) Stations which would involve RFID Tag Procurement, Registration, Distribution / Sale and Top-up.</p> <p>(c) Installation and Operation of ETC lanes at Toll Plazas</p>	<p>How will IHMCL engage CCH and Tag Distribution Companies? Will there be 2 separate RFP for CCH and Tag PoS or it will be the responsibility of single vendor</p>	<p>The CCH will be engaged by IHMCL via an exclusive RFP. The Tag distribution function will be in the scope of the CCH Contractor / service provider.</p>
60	<p>5. The contracts for the first 50 public-funded plazas will be awarded to the L1 bidder by IHMCL / the CCH provider.</p>	<p>Please provide the list of 50 toll plazas out of the 114 public funded toll plazas.</p>	<p>The bidder shall refer to Corrigendum 2, Sl. No. 1</p>
61	<p>5 Selecting a particular vendor from the list of empanelled vendors (excluding L1) is at the discretion of CCH Provider and the decision of CCH Provider in this regard is final & binding and no correspondence / claims in this regard shall be entertained</p>	<p>Will bidders bidding for CCH will be permitted to bid for ETC System. There is conflict of interest as after CCH vendor is selected he will be doing the allotment of Toll Plazas to ETC vendor.</p> <p>Both these points are conflicting to each other.</p>	<p>Yes</p>
62	<p>9 The contracts for the first 50 public-funded plazas will be awarded to the L1 bidder. The remaining plazas will be awarded on rotational basis to the other empanelled bidders.</p>		<p>The bidder shall refer to Corrigendum 2, Sl. No. 1.</p>
63	7	<p>Please provide list of all toll plazas and</p>	<p>The bidder shall refer to Corrigendum 2, Sl. No. 1</p>

	Raw electrical power from the local power distribution company will be provided at a single location at each site for system operation. The successful bidder shall make his own arrangements to provide a 24 X 7 uninterrupted power supply to the proposed system in order to meet the SLA conditions described in this document. This may include a UPS of suitable capacity supported by a Diesel Generator set(s)	average time power is available from grid in particular toll plaza	which refers to the list of plazas. It is the Bidders' responsibility to assess local conditions
64	33 This data shall remain in the local hard disk irrespective of transmission to the local ETC server until a period of 1 month. At the start of the 7th month, the 1stweek's data shall be deleted from the hard disk on the basis of FIFO logic.	This data shall remain in the local hard disk irrespective of transmission to the local ETC server until a period of 1 month. At the start of the 2nd month, the 1stweek's data shall be deleted from the hard disk on the basis of FIFO logic.	The bidder shall refer Corrigendum 2, Sl. No. 15.
65	32 Electronics Enclosure: The Interface Electronics and all related peripheral/controllers should be enclosed in an IP 65compliant cabinet.	All equipment/enclosures to be installed in room like Toll Booth should be IP 55 and equipments to be installed in open should be IP 65. If so protection rating of Electronics Enclosure and AVC Enclosure can be IP 65 and Barrier Gate should be IP 65.	The ingress protection specifications attempt to protect the equipment in a typical toll plaza environment in India to ensure its useful life. While dust and the presence of carbon particles from vehicular exhaust is very common, there exists risk of ingress from water especially when installed in tunnels. There have been known cases of ingress of water in tunnels (e.g. during heavy rains) that warrants in turn such a level (IP 65) of ingress protection for enclosures However barriers, even for outdoor use, normally support an ingress protection of around IP 55 due to the nature of their construction based on their functionality (e.g. an external moving arm effected
66	41 AVC Enclosure: The AVC and all related peripheral controllers should be enclosed in an IP 65 compliant cabinet.		
67	42 Automatic Barrier Gate: The housing and any mounting frame		

	shall be fabricated from corrosion-resistant materials. They shall be IP 55 rated.		by a motor located inside the housing) Therefore the specifications given in the RFP remain.
68	53 6.26.4.2. Data Manipulation System	What is objective of same no description provided?	The bidder shall refer to Corrigendum 2, Sl. No 27.
69	54 6.26.4.4.1. Data shall be archived on removable media on a regular basis so as to free system resources after the 5 year retention period. 6.26.5.2. Data retention times within the various levels shall be at least: Detailed Data - 36 months, Archived Data on USB Archive Storage - Full Contract period	There is conflict in the retention time of the data 3 years, 5 years and full contract period	The bidder shall refer to corrigendum 2, Sl. No. 28 and Corrigendum 2, Sl. No. 29.
70	121 7.2.6.4. In case the performance of a contractor is found to be unsatisfactory at a minimum of 3 toll plazas with reference to the SLA, the employer will terminate the relevant contract for these 3 and remaining toll plazas. The remaining works at the existing toll plazas will be handed over by the employer to another contractor at the risk and cost of the defaulting contractor. Further the defaulting contractor shall be removed from the	Dept is requested to consider revising as below : In case the performance of a contractor is found to be unsatisfactory at a minimum of 3 toll plazas with reference to the SLA, the employer will terminate the relevant contract for these 3 and remaining toll plazas. Remaining toll plazas where no substantial work has been started may be handed over by the employer to another contractor.	The bidder shall quote as per the RFP

	list of empanelled contractors and will not be considered for future projects		
71	121 7.2.6.5. Notwithstanding the above, the Employer may terminate the Contract for convenience by giving 30 days prior notice without assigning any reason	Requesting deletion of this clause.	As per RFP
72	4 NHAI got incorporated the Indian Highways Management Company Limited (IHMCL), a new Company under the Companies Act, 1956 with equity participation from NHAI (25%), Concessionaires (50%) and Financial Institutions (25%) for implementation of Electronic Toll Collection (ETC) system on National Highways in India	It is requested to provide the list of all those who are there in 50% Concessionaires and 25% Financial Institutions with the respective equity shares. Can the companies having equity in IHMCL bid for this project?	The bidder shall submit their proposal as per the RFP requirements Yes
73		What is the contractual agreement of NHAI with existing operating companies? Is there any conflict of interest with the new proposed model where a third party is being empanelled for the work?	The bidder shall submit their proposal as per the RFP requirements

L&T Infotech

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		Request for Clarification	
74	General	ETC Bidder for current Tender, Can they also participate in CCH and Tag Distribution Tenders?	Yes
75	General	Please clarify, Contractually ETC Bidder Will be working under NHAI or CCH or IHMCL ?	Under the CCH Contractor / Service Provider
76	Page 7 3.2.d. For any incidental costs like civil / electrical related works at the sites, the successful bidder shall assess the quantum of work and the same shall be quoted under "ANY OTHER ITEM" item of BOQ.	As the quantum of work varies from Plaza to Plaza, and the plaza allocation details are not known before, Please give guideline to Bidder to assess the work	The bidder to refer Corrigendum 2, Sl. No. 1. It is the Bidder 's responsibility to assess the work.
77	Page 7 3.2.c. & f. c) Raw electrical power from the local power distribution company will be provided at a single location at each site for system operation... f) During all phases of the project the contractor shall make his own arrangements for the necessary power supply.	Please clarify the statements, as they contradicting	<ul style="list-style-type: none"> i) Raw power will be provided at a single location DURING SYSTEM OPERATION to meet the capacity of an OPERATING system. ii) However during all other phases of the project (e.g. System installation and commissioning, Maintenance etc) the contractor shall make his own arrangementsfor power iii) Even during the phase of system operation the contractor shall make his own arrangements to appropriately distribute the power (being provided at the single location) to the

			necessary locations.
78	Page 28 5.5. BOQ Line no 18 Interface with the CCH	Cabling at Toll Plaza : To connect 2 lanes and related equipments, is there any standard distance in between lanes to provide connectivity solution at Plaza Level	Bidders shall assess the requirements on their own. Any of the existing lanes on either side in a toll plaza can be identified as the ETC lane
79	Page 28 5.5. Interface with the CCH	Any transaction delay or malfunction of at CCH Level, should not effect ETC Tenderer SLA calculation and related payments	Yes

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80	<p>3.2 Page 4</p> <p>On the other hand, at the private-funded (BoT) toll plaza, apart from interfacing with the CCH, the system may have to interface with the local concessionaire's existing toll management system (TMS).</p>	<p>What are the specs of the integration with TMS software from other SI?</p>	<p>The bidder shall refer to corrigendum 2, Sl. No. 6</p>
81	<p>3.2 Page 6</p> <p>Design, Engineering, Supply, Installation, System Integration, Testing, Commissioning of dedicated non-stop ETC Toll Plaza systems based on the use of passive RFID (meeting the 18000-6C standard) tags for Automatic Vehicle Identification (AVI).</p>	<p>We understand that Architecture in this project is for Dedicated ETC lane with an eject lane for "Invalid" tags.</p> <ol style="list-style-type: none"> 1. Is Eject lane is dedicately reserved for vehicles with Invalid tags? 2. In case of failure of Transceiver#1, ETC lane will be shut down or can be used as hybrid lane 	<ol style="list-style-type: none"> 1. Vehicles with tags that are not valid or with no tags, on entering the ETC lane will be ejected to an adjacent mixed / cash lane which is also used for toll collection from other 'non-ETC' vehicles. 2. The ETC lane will not be used as a Hybrid lane.
82	<p>5.0 Page 13</p> <p>A vehicle with such a valid tag is then allowed further for ETC transaction by keeping open the ETC exit boom barrier gate. For a vehicle whose tag is determined to be 'not valid 'the boom barrier gate is closed and the vehicle is guided out via the eject lane into an adjacent mixed / manual cash lane. Here a variety of payment methods will be facilitated starting with an attempt to read the tag with a hand-held RFID reader. If the tag is found valid then the vehicle is facilitated.....</p>	<p>We believe that Smart card mentioned is not Linked based Smart card (Smart card linked with the tags). Kindly clarify.</p>	<p>Presently a Smart card is not linked to the RFID Tag account. However such functionality may be introduced in the future.</p>

83	6.3. Page 62 Diesel Generator Set	Diesel Generator set will be in contractor's scope. However, diesel is in whose scope of supply?	In the Contractor's scope as part of system operation and maintenance
84	7.1.20.c Page 84 The Contractor shall be responsible for the hardware storage before installation.	Material storage and security during O&M stage is in whose scope of supply?	In the contractor's scope
85		In case of a particular plaza awarded to a contractor, is it mandatory to perform O&M for the same for 5 years?	Yes, in case of public funded projects. At the discretion of concessionaires in case of BOT/OMT projects
86	Fig 4.3 Page 25	In flow chart adequate product/organization capability is mentioned	Based on the quality and adequacy of information provided in the bid including earlier experience in ETC, financial strength and technical documentation
87	7.2.2.3. Page 117 Prices in the form of Unit rates for all items (inclusive of all taxes and duties) for the Bill of Quantity given below under table 7.1	Taxes and duties and entry taxes will be different for different plazas as the locations will be different. In this scenario, there has to be separate BOQ prepared for each plazas, In that case following things will be require a. Billing and shipping address for all plazas	The bidder shall refer to Corrigendum 2, Sl. No 1.
88	4.0 Page 11 General Overview: A help-desk is provided for providing typically technical assistance to those stakeholders who are involved in the operation and maintenance of	Help desk is in whose scope? What is the structure of Help desk?	Help desk is in the scope of the CCHContractor / Service provider.

	the ETC program.		
89	4.0 Page 11 General Overview: Another important service offered to the road user is a customer care call centre to redress user complaints and provide information on account status and usage as well as useful information about the ETC program.	Call center is in whose scope?	In the scope of the CCH Contractor / Service provider
90	7.1.52 Page 111 SERVICE LEVEL AGREEMENT - SLA : The SLA should cover at least the following performance terms: 1. Availability: Refer to the above 2.9 paragraph.	2.9 paragraph is not in RFP?	The bidder shall refer to Corrigendum 2, Sl. No. 41
91	7.1.52 page 111 SERVICE LEVEL AGREEMENT - SLA : B. The SLA should include the following systems: 1. All systems related to Extra Low Voltage 2. All systems related to Data Networks 3. All Systems Security and Safety 4. All systems related to ETC of LANE infrastructure	Like point point no. 4, point no. 1 to 3 is applicable for ETC system only. Kindly clarify.	They are applicable to systems under the scope of this contract
92	7.1.52 Page 111 SERVICE LEVEL AGREEMENT - SLA : E. Pricing after Warranty Period 6. Programming on message text, animation sequences, and the like for Plaza use and operation -	Kindly brief on the same.	The bidder shall refer to Corrigendum 2, Sl. No. 43
93	7.1.16 Page 79 Life Span:	Life span will be for 5 Years or 10 Years?	The bidder shall refer to corrigendum 2, Sl. No. 37

	The life-span of the equipment and the associated facilities will be at least five (10) years, based on a continuous 24-hour operational schedule		
94	7.2.2.3 Page 117 Minimum Documents for Price Evaluation: The availability of Customs duty exemption if any, for imported equipment shall be intimated to the bidders during the pre-bid meeting.	Kindly Clarify the same.	The bidder shall refer to corrigendum 2, Sl. No. 56 a)
95	4.0 Page 11 General Overview: The scope of the system described in this RFP is limited to the ETC plaza system that is proposed to be installed in over 200 NHAI toll plazas (including those belonging to concessionaires and those that are public-funded).	Locations of Plazas required (this will have impact on equipment cost)	Please refer to corrigendum2, sl.no 1
96	Table 4.2. Page 27 Broadband Internet connection with minimum 2 Mbps link	Connectivity issue between the CCH and Plaza, location is required as the connectivity cost would be different?	The bidder shall refer to Corrigendum 2, Sl. No 1. It is the Bidder's responsibility to assess the same.
97	7.3. Page 122 Project Milestones	Project Milestone for a particular plaza is given. However, in a scenario, where L1 where contractor will be awarded with 50 plazas. What will be the nature of Project Milestone?	Please refer to Sl. No. 29 of this clarifications document.
98	5.2. Page 16 System Description & Operation of the ETC Plaza system with an ejet lane	Can we propose some other design other than what is given is in the RFP? Is there a scope to optimize and change it? If yes, would the new BOM be accepted	As per the RFP

99	<p>7.2.3. Page 119 Payment terms</p> <p>a) 40 % of the system value against Design, Engineering & supply of all equipment b) 40 % after successful installation and integration with CCH c) 10% on successful system testing and commissioning d) 10 % on the successful completion of the Defects Liability Period which shall not exceed 6 months from the date of commissioning.</p>	<p>Payment terms mentioned in RFP has no Advanced payment, this will affect badly on the cash flow for this project. We suggest following payment terms. A) 40% should be advance B) 20% on system design C) 20% against delivery D)10% on testing E) 10% on DLP</p>	As per the RFP.
100	<p>7.2.3. Page 119 Payment terms</p> <p>PAYMENT TERMS: a) 40 % of the system value against Design, Engineering & supply of all equipment b) 40 % after successful installation and integration with CCH c) 10% on successful system testing and commissioning d) 10 % on the successful completion of the Defects Liability Period which shall not exceed 6 months from the date of commissioning.</p>	<p>1. Would the payments be released after ETC system at a plaza is implemented? (i.e. on plaza-wise basis)</p> <p>2. Will Payment terms be applicable separately for each plaza? (Since, there are many plazas having different geographical locations, which could impact delivery schedules)</p>	As per the contract / Letter of Award.The bidder to also refer Sl. No 29 of this clarifications document.
101	<p>2.0 Page 5 2. Project Details The contracts for the first 50 public-funded plazas will be awarded to the L1 bidder by IHMCL / the CCH provider. The</p>	How many bidders will be empanelled? What are the locations of those 50 public -funded plazas	The bidder shall refer to corrigendum 2, Sl. No. 1

	remaining plazas will be awarded on rotational basis to the other empanelled bidders by the CCH provider.		
102	General question	Two (2) lanes per plazas need to be converted to ETC lane for all plaza. Kindly confirm the same.	Yes. However the bidder shall also refer to Corrigendum 2, Sl. No. 58
103	7.2. Page 115 The successfully empanelled bidder shall a) On being issued the letter of empanelment provide a security deposit (in the bank of a Bank guarantee) for an amount of Rs 50,00,000 (Fifty Lakhs) for a period of 2 years b) On the award of the contract for specific toll plazas, shall provide a further performance bank guarantee of Rs 10,00,000 (Ten lakhs) per site.	What is the duration of BG for Rs. 10 L per plaza. In the case of L1 bidder, when would the BG of Rs. 5 Crore (50 plazas x 10 lacks) be returned ?	The bidder shall refer to corrigendum 2, Sl. No. 44
104	General question	Will the penalties for deviation in AVC accuracy and ETC uptime be combined?	As per the RFP
105	5.0 Page 13 The ETC Plaza System: For a vehicle whose tag is determined to be 'not valid 'the boom barrier gate is closed and the vehicle is guided out via the eject lane into an adjacent mixed / manual cash lane. Here a variety of payment methods will be facilitated starting with an attempt to read the tag with a hand-held RFID reader.	1. Handheld communication for checking tags at transceiver 1, How the user would be notified with the information of TAG Status. Would Handheld transaction status need to be immediately shown on UFD(Class, vehicle number, validity status) 2. If the tag is a genuine tag(Issued by IHMCL) and is not blacklisted, do we need to further check whether the tag has proper validity from time or balance perspective on	The handheld reader can be used to read the tag of an ejected vehicle for the purpose of re-checking its validity.The process of handling the ejected vehicle after a 'successful' read by the hand-held reader will be finalized later by IHMCL/CCH contractor(service provider)with the main plaza operators. For this tender the bidder shall account for manpower to operate the hand-held reader. It is not required to show this transaction status on the UFD. No.Blacklisting is done by the CCH

		Transceiver #1?	
106	General question	How the security would be enabled for protecting tag information, the tags could be cloned and could be misused. As of now RF readers stores the Encryption keys, so how we will meet the security standards when readers from various vendors are used across various Toll Solutions	The Tag Authentication algorithm including the tag contents and tag security features will be shared with the successful bidder.
107	General question	In case the second reader or antenna goes faulty how the vehicles standing in the ETC Zone would be processed, Would it be using the handheld terminal to process the same? What should be the flow in such a case?	The transaction can be formed using the reading from the first transceiver and sent to the CCH along with the vehicle image for verification. The CCH will handle this as a special case under violation management
108	General question	Tow and Exempt Transactions would be allowed or not. If allowed what would be the flow for TOW transactions	Yes. However the modalities / flow will be finalized and provided to the successful bidder.
109	General question	Whether the existing lane of any plaza could be used as an exit lane? If Yes whether the AVC would be placed before the transaction point(Lane Booth) or after the transaction point(Lane Booth), what is the prescribed architecture for the same?	The bidder shall bid as per the RFP
110	General question	What are the various modes required for lane like (normal mode, Critical fault mode(AVC broken), degraded mode(Other less critical hardware broken), standalone	Will be decided in consultation with the CCH Contractor / service provider. The ETC lane may be shut down when failure of any one or more of the critical functions indicated below:

		mode(network failure etc)?	<p>a) Automatic Vehicle identification (including Tag authentication) function</p> <p>b) Automatic barrier function</p> <p>c) AVC function</p> <p>d) A critical level of vehicle detection along the ETC lane has failed.</p> <p>is detected.</p> <p>Degraded mode of operation maybe performed with approval from the CCH Contractor as long as user experience is not substantially impaired. Details of such operation shall be provided to the successful bidder.</p>
111	General question	What are the various MOP(Monthly pass, Balanced/Pre-paid card) expected or supported as of now by the system?	MOP presently shall include Single Journey, Daily pass, Monthly pass and local user discount, etc...
112	General question	which can be used in case the TAG is broken or reader is not working.	In case Automatic Vehicle Identification(i.e. reading the tag by the first transceiver) is not successful (e.g. in the case of a broken tag) the vehicle shall be ejected out of the ETC lane. In case the first transceiver is not working the ETC lane shall be closed.
113	General question	Are the transactions need to be marked or anyway linked with processing information ('N': Normal processing, "SC": Transaction completed using smart card)	There are no Smart card transactions envisaged in the Toll Plaza ETC system.

114	<p>5.0 Page 13</p> <p>A vehicle with such a valid tag is then allowed further for ETC transaction by keeping open the ETC exit boom barrier gate. For a vehicle whose tag is determined to be 'not valid 'the boom barrier gate is closed and the vehicle is guided out via the eject lane into an adjacent mixed / manual cash lane. Here a variety of payment methods will be facilitated starting with an attempt to read the tag with a hand-held RFID reader. If the tag is found valid then the vehicle is facilitated to leave the plaza in the fastest possible manner. In case of failure the toll amount can be paid with other methods of payment like smart card or cash.</p>	<p>We kindly ask to describe shortly how the hand held reader will be operated. The reader in the booth will not be of use since the tag cannot be peeled off and given to the operator. On the other hand, the operator walking out of the booth, to read the tag via the hand held has high operational overhead. If the tag was not valid at the first gate, it will also not be at the hand held position. We therefore cannot see any advantage of such a special device, and would rather propose to use the same type of transceiver as on the main lane.</p>	<p>The handheld device will be operated by supporting staff. The bidder to refer Sl. No. 105 of this clarifications document.</p>
115	<p>General Question</p>	<p>We propose to perform a test of the ETC system using a predefined set-up provided by NHAI. The bidder would install and show his solution for a number of hours and prove the speed, reliability and resilience to cross talk and tailgating situations.</p>	<p>The bidder shall perform a Proof of concept as per the RFP.</p>
116	<p>General Question</p>	<p>We propose to remove all encryption and passwords as they do not add to security from our POV, but add a lot of overhaed and cost on system intergration. The passwords even if diversifeid is transmitted in plain text. A sniffer could easily read the password and all other information. A person</p>	<p>As per the RFP</p>

		taking on to hack the security would not at all have any difficulty intruding. The security should be built into the back office system and overall operational architecture.	
117	5.4. Page 26 A list of equipment and work for a ETC Toll Plaza system is given below in Table 4.2	Would it be more appropriate to measure the total price on the level of all lanes being equipped with RFID devices than just 2(+2) per plaza. It is the expected and natural dinal solution, so this cost will be expected in the future, even if not incurred now.	ETC lanes in a Toll Plaza will be increased in a phase-wise manner with traffic growth. The traffic growth itself is not likely to be uniform across all plazas. At this point of time, keeping the potential ETC traffic in mind, 2 lanes (1 on either side) is seen sufficient. The bidder shall also refer to corrigendum 2, Sl. No. 58 on this matter regarding growth.
118	7.2.5.1. Page 120 Arbitration / Resolution of Disputes: In the event of any dispute or difference arising out or touching upon any of the terms and conditions of this contract and / or in relation to the implementation or interpretation hereof, the same shall be resolved initially by mutual discussion and conciliation but in the event of failure thereof, the disputes shall be finally settled through arbitration in accordance with the Arbitration & Conciliation Act, 1996 through a Sole Arbitrator to be appointed by Chairman, IHMCL. Arbitration Proceedings shall be held at New Delhi.	Please enhance the clause from sole arbitrator appointed by IHMCL to three arbitrators, one per party and one appointed by the first two.	As per the RFP
119	7.2.6.5. Page 121 Notwithstanding the above, the Employer may terminate the Contract	There is no termination possible for the Contractor. Please enable certain mechanism e.g. if project is stalled compensation for overheads	As per RFP

	for convenience by giving 30 days prior notice without assigning any reason.	will be negotiated, not less than 20% of total contract value.	
120	General question	Integration with existing systems must either be removed from the scope of the Contractor, or protection must be given via a penalty to be paid by the other party. It is not possible to assume responsibility for the scope of a different party.	The bidder shall refer to corrigendum 2, Sl. No. 6.
121	General question	Will the Contractor be liable to consequential damages like loss of tolls or unsafe operation of the system?	The Contractor shall be liable as per the scope of this contract .
122	6.4.1 6.4.4.1.1 Page 38 6.4.1. Accuracy Level The AVC system shall be 100% auditable and accuracy of vehicle counting should be 99.5% and classification accuracy shall not be less than 98%. 6.4.4.1.1. The AVC shall be able to automatically classify the classes of vehicles as indicated in the vehicle class table to an accuracy of 99.60%	Please clarify which number is applicable, or when the different numbers are applied.	The bidder shall refer to corrigendum 2, Sl. No. 19 and Sl. No 20.
123	7.1.11. Page 77 SYSTEM MANAGEMENT The System shall be SNMP capable and able to	We kindly ask to accept other protocols than SNMP, if equivalent or more rigorous.	The protocol solution offered by the bidder shall ensure system functionality described in this RFP.

	capture all the alerts and status of the ETC systems.		
124	6.5.2. Page 42 Specifications UFD e) MTBF : 50,000 hours.	MTBF seems to be quite high, kindly revise or confirm	The bidder shall refer to Corrigendum 2, Sl. No 23.
125	6.8.12.1. Page 50 The system shall be in Domain environment and all workstations must connect to that domain.	Do we need to propose separate server for primary domain controller?	The domain controller can be part of the Local ETC server
126	6.18.2.3. Page 50 An additional secondary server shall be provided, which shall take over immediate charge of Primary server in case of its failure.	Do we need to propose separate server for secondary domain controller?	Can be part of the Hot Standby server
127		Does LPIC camera required only to capture image of license plate or it also require automatic character recognition of license plate?	Automatic Character recognition of license plate is not in the scope of this RFP.
128	7.9.1.d) Page 76 All components of the system shall have the exact same time. The System time shall be synchronized through the network by the NTP time server of the Master Clock System.	Does a separate NTP time server hardware is required?	The bidder shall refer corrigendum 2, Sl. No. 36 b) and Corrigendum 2, Sl. No. 16
129	5.4. Page 27 Broadband Internet connection with minimum 2 Mbps link	Who will bare the recurring cost of 2MBPS Internet Line?	This cost is in the scope of the bidder.
130	5.4. & 7.2.2.3	In Sec.5.4 Table 4.2 There are 2 line Items regarding UPS as "19. UPS system for the entire ETC Toll Plaza system" & " 24. UPS	please refer to corrigendum 1, Sl. No. 2

		<p>system as required for the proposed bidder's ETC Toll Plaza system"</p> <p>Whereas in Sec. 7.2.2.3 Table 7.1 only 1 line regarding UPS "23. UPS system as required for the proposed bidder's ETC Toll Plaza system"</p> <p>which section to refer?</p>	
131	<p>5.6.3.2. Page 30</p> <p>The ETC lane shall close automatically in case of detection of failure of critical equipment like Transceiver, Boom barrier, critical vehicle guidance signs (Traffic Lights), Incident Capture System etc. In such cases the OHLS shall display that ETC lane is closed and the ETC exit barrier shall remain closed. Thus any vehicle entering the ETC lane is automatically 'ejected' into the neighboring mixed / manual lane.</p>	<p>Does Incident Capture System feedback for lane closure is must?</p>	As per RFP
132	<p>6.4. Page 36</p>	<p>What are the vehicle classes considered for Classification?</p> <p>Classes with all parameters needs to be defined.</p>	PI refer corrigendum 2,SI.No 18.
133	<p>6.4.4.10. Page 40</p> <p>It shall be noted that the equipment enclosures shall be mounted in the tunnel running under the plaza, sufficient ventilation shall be provided by the equipment Contractor for this enclosure and the enclosure shall have IP65 protection.</p>	<p>As TLC & AVC enclosures are located in Tunnel, is IP65 still required?</p>	As per RFP
134	<p>5.2.4. and 6.8.1.</p>	<p>In section 5.2.4 TL with Red Arrow is asked and in section 6.8.1 TL with Amber arrow is asked for exit. Please</p>	As per RFP

		confirm the color	
135	6.8.2.	Exit arrow - Is it blinking or steady?	The exit arrow shall blink
136	6.11.1	Is Camera with fixed focal? Can we use verifocal so that we can adjust as per site conditions.	The bidder shall refer to corrigendum 2, Sl. No. 26
137	6.14.	Can we use IP cameras and avoid use of Frame grabber?	The bidder shall quote as per RFP
138	6.24. Page 51	Workstations Management: At any time, if the purchaser wants to add additional workstations and its peripheral hardware from the system, shall be able to do so without any additional cost to the purchaser?	The supply of additional workstation is not in the scope of the bidder
139	7.2.2.3	What are the specifications of the Laptop	The bidder shall provide a Laptop that has adequate capability to make it fit for its purpose
140	2.b. page 4 (b) Tag Distribution through Point of Sale (POS) Stations which would involve RFID Tag Procurement, Registration, Distribution / Sale and Top-up.	Supply hardware and software for POS is in whose scope of supply?	Not in the scope of the bidder
141		There is no Table 2.1 and Table 2.2, we believe it is Fig 2.1 and Fig 2.2. Kindly clarify the same.	The bidder's observation is correct.
142	: Chapter 3.2. Bid Evaluation Methodology]	Once the bidder is Technically qualified, after how many days of Technical qualification, bidder shall demonstrate the proof-of-concept of the Toll Plaza ETC system described in this tender at a location in India. Kindly clarify the same. [Ref from RFP	The proof-of- concept is part of the Technical qualification of the bidder.

VaaanInfra

S.No	Clause No	Description of Query / Comment / Request for	Clarification by IHMCL
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		Clarification	
143	The bidder can also be a consortium between a maximum of 2 Nos. The said consortium shall then be having a minimum experience of deploying 25 ETC lanes in last 3 years, have an average annual turnover of INR 10 Crores for the last financial year and also possess a valid ISO 9000 Quality Standard Certification	In the case of a Consortia is it required that both the Partners match each criteria individually or the Consortia will be qualified if the partners together qualify?	Please refer Corrigendum 2, Sl. No. 3, Corrigendum 2, Sl. No. 4 & Corrigendum 2, Sl. No. 5.
144		<p>We understand from the RFP that the successful bidder will be selected based on L1 basis. The L1 bidder along with other technically qualified bidders who are willing to match the L1 price will be empanelled.</p> <p>The contracts for the first 50 public funded plazas will be awarded to the L1 bidder by IHMCL/the CCH provider</p> <p>Query 2a</p> <p>Does this mean that the L1 would only be limited to the 50 Nos. Public Funded Plazas?</p> <p>Query 2b</p> <p>Please confirm the number of ETC lanes envisaged at a Single Toll Plaza Location? Page No. 13 mentions</p>	The bidder shall refer to Corrigendum 2, Sl. No. 1. and Corrigendum 2, Sl. No. 58.

		<p>that the number shall be At Least one dedicated lane in each direction. Can this number also increase?</p> <p>Query 2c Does this also mean that if apart from L1, three other SIs are empanelled then the rest 170 Nos. of Plazas would be distributed amongst these 3 SIs. This also means that probably in such a scenario these suppliers would be getting more work than the L1 who has made all the effort to give the Lowest Price but still is getting less opportunity compared to other empanelled agencies. This seems to be unfair.</p>	
145		<p>We understand the Public Funded Plazas operate on the basic infrastructure only and the operating conditions at these plazas are not very conducive. In such a case the L1 party would be making more efforts in implementing the system at these plazas while other agencies would have a easier job implementing at the Private funded plazas where a modern toll collection system is in place</p> <p>How can this risk be mitigated ?</p>	Pleaserefer Corrigendum 2, Sl. No 1.
146		<p>As per the RFP CCH provider shall have the liberty to distribute the rest of the plazas/work to other empanelled agencies (excluding L1). This selection shall be at the discretion of the CCH Provider and its decision shall be final and binding.</p> <p>This means that equal opportunities shall not exist when it comes to all other agencies, excluding L1 and out of the other agencies, any agency which finds favor with the CCH would probably get better quantum while the other may or may not get the</p>	The bidder shall refer to Corrigendum 2, Sl. No 1

		work. What is the mechanism proposed to avoid this?	
147		<p>The ETC Lane mechanism shall be using the Ejection mechanism wherein the Vehicle which does not have an Original Tag (tag only issued by IHMCL) or a Tag which is Blacklisted, is ejected to an adjacent lane for processing the toll payment.</p> <p>In such a case does the onus of toll collection transaction transfer to the existing system provider? What if there is a queue in the adjacent lane, owing to the vehicles already waiting at the Pay Axis or waiting behind such a vehicle whose transaction is being processed in the adjacent lane, and thus the vehicle from the ETC lane is not able to move into the adjacent lane or till such time it gets enough space so as to move into that lane? How does the authority plan to mitigate such a situation?</p>	The Toll Plaza operations will be suitably managed such that the adjacent lane for ejection has adequate capacity to accept the ejected vehicles from the ETC lane.
148	For the deployment at the Public Funded Plazas the system shall be a stand-alone system and interface only with the CCH. However for the private funded (BOT) toll plazas apart from the interface with the CCH the system may have to interface with the local concessionaire's existing toll management system. For this the	Here the support required only seems to be one sided and we believe that at any particular Toll Plaza Level the Concessionaire shall be the main interface and shall assist in garnering mutual support and relationship between the bidder/empanelled agency (who is providing the ETC) and the supplier of the existing Toll Collection System provider.	The bidder shall refer to corrigendum 2, Sl. No. 6.

	bidder shall provide the necessary interface to his system and extend necessary support for establishing the connectivity with the required existing Toll Plaza System.		
149		<p>VaaaN Submission</p> <p>We are a company operating in India since past 2 Years and are well known for Design, Supply, Installation & Maintenance of Toll Management Systems, ETC, Slow Speed Weigh in Motion Systems and Highway Traffic Management Systems. We have been incorporated 2 years back and have a total order book of more than 680 Lanes of Toll Management Systems. While we have already executed & commissioned more than 20 Lanes of ETC (mixed lane functionality) another 14 Lanes shall be commissioned within next 2-3 months.</p> <p>Request</p> <p>We request that the following criteria may please be relaxed so that agencies like VaaaN, who have a strong knowledge base but are falling short of the criteria, should be able to participate and deliver value to the process of modernization of Toll Collection and a greater cause of Nation building.</p> <ol style="list-style-type: none"> 1. The criteria of a company being in existence for last 3 financial years may please be reduced to 2 Years 2. The Valid ISO 9000 certification may please be amended to read as “The qualified agency should 	As per RFP

		<p>have a Valid ISO9000 certification on date of empanelment”.</p> <p>We are already undergoing the process for Quality Certification and are confident of achieving the same in next 2 months period. Also with this support other bidders shall also work towards getting themselves Quality Certified and which shall indirectly ensure more and more agencies follow the Quality Process which shall in turn benefit the Projects thus achieving what is actually intended.</p>	
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Motorola

S.No	Clause	Description of Query / Comment / Request for	IHMCL Response
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		Clarification	
150	6.1.1. General Visual diagnostics . The Transceiver shall have LED indicators for sense, transmit Fault and Power which shall be visible clearly to the operator on ground while the system is operational	We understand that the Reader will be installed at height of 6m above road surface which is appx. 20ft. Will the LED's be visible for human eye from ground?	There are several products in which LEDs are visible to the human eye from such heights. The bidder shall quote as per the RFP.
151	6.1.2. Environmental S.No. 2 in the Table	IP 65 rating can be achieved by providing NEMA enclosures. Hope the same would be acceptable.	Enclosures of equivalent NEMA rating will be acceptable

152	6.1.2. Environmental S.No. 5 in the table	Please explain the justification of storage temperature range of -40 deg C to 85 deg C. Even under adverse conditions, storage temperature required would not exceed the range "-40 to 70 deg C". Therefore request to change the temperature range to "-40 deg C to 70 deg C".	The bidder shall quote as per the RFP.
153		It is suggested to include "Original Equipment Manufacturer (OEM) of various product(s) should have their Service Center in India to ensure prompt repairs and support for the entire duration of five years". This is extremely crucial considering the fact that the project needs to be managed by Contractor for a period of five years.	The bidder shall quote as per the RFP

ILFS Transportation

S.No	Clause /Section	Description of Query / Comment / Request for Clarification	IHMCL RESPONSE
154	3.2.	Will we be provided a room to house the D.G. Set and UPS Units at the toll plazas? If not, then, will adequate land be provided to build the required rooms for the mentioned equipment?	Space in the form of land will be provided
155	4.2 Para 2 The road user can approach POS and apply for an RFID tag. On the successful completion of a registration process, a RFID tag, that uniquely identifies the vehicle, is issued and affixed on its windshield at the Point of Sale (POS).	Who will affix RFID tag on the windshild? As per our past experience, if the RFID is not properly affixed, it will not be read by the RFID reader at the toll plaza and user will not pay for the second time for the faulty installation of Tag on the windshield. Properly trained personnel has to affix the RFID tag and one needs to have RFID handheld device to read the RFID at POS counter to check its functioning.	The affixing of the Tag is not in the scope of the bidder.
156	5.1 <i>"The proposed ETC System uses two RFID readers where the first one will only detect the presense of a valid IHMCL Tag along with detection of blacklisting. The second Reader will do the actual ETC</i>	In our view this ETC Layout has the following issues and should be optimised for better performance and better traffic management. 1) The RFID reader is quite capable to perform both the actions of Tag Authentication and ETC Transaction in a single reader and hence it is not required to have two readers to perform these actions.	As per the RFP.

	<i>Transaction."</i>	<p>2) As per the current layout the first RFID Reader has to be installed at least 60mtrs before the Toll Canopy and this will definitely affect the Traffic Bifurcation and flow for the normal lane users. Furthermore this distance may not even be viable or available at some of the existing toll plazas. In our opinion this distance can be reduced by approximately half, if only one RFID reader is installed on a gantry before the toll canopy.</p>	As per the RFP
		<p>3) It is not feasible, from an operations or maintenance point of view to install two Readers along with associated equipments when only one reader is required to achieve the full envisaged functionality.</p>	The bidder shall quote as per the RFP
		<p>4) As per the current layout, the automatic boom barrier is to be operated in a default "Open" position and the same will close on detection of a vehicle with an invalid tag. Based on our experience with implementing and operating Toll Systems, it is our opinion that this mode of Boom Barrier Operations is a safety concern as the vehicle user will see an open boom barrier and will approach it at high speed without expecting the barrier to close suddenly. This will lead to possible situations wherein the boom arm will fall on the vehicle and damage the windshield or the vehicle itself, regardless of any safety loop /sensors</p>	Optimization of the same shall be performed during project execution. Presently the bidder shall quote as per the RFP.

		<p>Proposed Modification:</p> <p>It is proposed to install a single RFID Reader on a gantry located at a distance of not more than 30 mtrs from the Toll Canopy. The Boom barrier will be installed in a default "Close" position, just before the Toll Island and the gap between the gantry and the Boom Barrier will be used for invalid vehicles to eject the lane. The RFID Reader will perform both tasks of Tag Authentication and ETC Transaction and on successful execution of the same, the boom barrier will open to allow the vehicle to exit from the lane. In case of an invalid tag the boom barrier will remain closed and the eject signals will activate to guide the vehicle into the adjoining Mixed / Cash Lane.</p> <p>This layout will require installation of one RFID Reader on Gantry with an OHLS, One Boom barrier, one eject signal, One AVC, one UFD, one LPIC, one Incident Capture Camera and one vehicle presence detector near the gantry. A similar, single RFID reader based layout has been implemented successfully by us at our toll plazas and is working excellently with all the lane functionality envisaged in the RFP</p>	<p>The bidder shall quote as per the RFP</p>
157	Cl. 5.2.4 (IV) License Plate Image Capture Camera	<p>Please clarify if the functional requirement is for only capturing of License Plate Images or if it is for License Plate Reading / Recognition using OCR technology. It has been observed that majority of the license plates are still non-standardized, hence, accuracy rate of OCR is poor</p>	<p>The functional requirement is only for capturing of License Plate Images. OCR function is not required.</p>

158	<p>6.3.1.4 <i>"This data shall remain in the local hard disk irrespective of transmission to the local ETC server until a period of 1 month. At the start of the 7th month, the 1stweek's data shall be deleted from the hard disk on the basis of FIFO logic.</i></p> <p>"</p>	<p>It is assumed here that there is a typographical error and that the 1st Week's data is to be deleted at the start of the 2nd Month and not the 7;th Month Please confirm.</p>	<p>The bidder shall refer to corrigendum 2, Sl. No. 15</p>
159	<p>6.4.1: <i>"The AVC system shall be 100% auditable and accuracy of vehicle counting should be 99.5% and classification accuracy shall not be less than 98%"</i></p> <p>6.4.4.1.1 : <i>"The AVC shall be able to automatically classify the classes of vehicles as indicated in the vehicle class table to an accuracy of 99.60% without manual intervention and class correction or validation"</i></p>	<p>There is an ambiguity in the AVC accuracy required as per the two conflicting clauses. Kindly Clarify</p>	<p>The bidder shall refer to Corrigendum 2, Sl. No. 19 and Sl. No. 20</p>

160	6.11.1 <i>" The cameras shall be charge coupled device (CCD) color cameras equipped with fixed focal manual iris lenses and night vision capabilities."</i>	In our opinion the camera lens should be of a Varifocal Auto Iris Type instead of a Fixed Focal Type. This will help in getting optimum coverage area as lane geography might vary from project to project.	The bidder shall refer to corrigendum 2, Sl. No. 26.
161	6.27.2.1.	The GUI is to be designed such as to display the User Id and User Name of the user logged in lane at the time of incident generation, however as per standard practice, the ETC lane is an unmanned, automatically functioning lane. The ETC Software will be in an "Always On" mode and does not require any personnel / toll collector to access the software and perform a "Log On" function. The same issue also applies to all other sections in the RFP that mention "User ID" or "User Name" You are requested to kindly clarify.	Even if the ETC lane software will be in an "always on" mode, it shall be activated into this mode and de-activated (for maintenance etc) by an authorized operator with a valid Log on. Also the presence of the GUI is essential for appropriate monitoring of the lane performance when required. The bidder shall quote as per the RFP
162	6.33 <i>"The tags should be RFID Tamper Proof Label specially designed for tagging directly to a surface, such as Glass..."</i>	Based on our previous experiences with RFID Windshield Category tags, it has been found that tag performance has been hampered in the case of windshields with film, special windshields on certain high-end cars and windshields with too much metal objects near the tag location. Keeping in view the above issues, it is proposed to allow usage of surface independant tags also in case of such vehicles.	As per the RFP
163	General Technical proposal	The technical submission has not been elaborated. Please specify what all documents need to be submitted as a part of the Technical Proposal	The bidder shall refer to section 7.2.2.2 of the RFP and Corrigendum 2, Sl. No. 53.
164	General Formats	The formats for Power of Attorney for submission of Bid, Power of Attorney for lead	The bidder shall refer to FORMAT(F) provided in the Corrigendum 2 for the format of the

		member of consortium, Joint Bidding agreement etc have not been provided. Please provide	Power of Attorney
165	As per the RFP, L1 shall be awarded the contract for 50 Toll plazas	Can you please specify the location of 50 Toll plazas. Since the details are not available on the website and the cost/tax implications of various locations need to be factored in the Bid	The bidder shall refer to Corrigendum 2, Sl. No. 1
166	Consortium Qualification	Do the individual members of the Consortium need to qualify on all the desired qualification criteria?	Please refer corrigendum 2,.Sl.no.3, Corrigendum 2, Sl. No. 4, Corrigendum 2, Sl. No. 5
167	Members of Consortium	Please increase the number of members of the Consortium to 3	As per the RFP
168	Incase of award of Contract to L1, what would be the timeline for the other bidders to match the Bid	Please provide a time period of atleast 10 days to match the same.	7 calendar days
169	If a bidder has implemented the ETC system as a Concessionaire in any of its Projects, will the experience be counted?	Please clarify.	No

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No	Clause	Description of Query / Comment / Request for Clarification	IHMCL Response
170	2. The contracts for the first 50 public-funded plazas will be awarded to the L1 bidder by IHMCL / the CCH provider	Please specify which of IHMCL and CCH provider will be the employer, sign the contract and pay to the successful bidder.	CCH will be the employer
171	2. The CCH provider will have complete....	Please clarify if the provider of CCH and Tag Distribution is a single contractor by a single tender. Which agency IHMCL/ CCH are driver to the overall project including CCH/ Tag/ ETC.	Yes. IHMCL is in the process of selecting a CCH provider in whose scope Tag distribution will also be included
172	2. The CCH provider will have complete....	Please clarify the time frame to select the CCH provider and Tag Distribution and project implementation schedule after the contract.	RFP for CCH Contractor has been published.
173	2 The contract for the first 50 public-funded plazas will be awarded to the L1 bidder by IHMCL.	Please clarify the exact project location of each 50 toll plaza so that the bidder can estimate the cost of transportation and so on.	The bidder shall refer corrigendum 2, Sl. No. 1
174	2 The L1 bidder along with other technically qualified bidders who are willing to match the L1 price will be	How many bidders will be empaneled?	The bidder shall refer Corrigendum 2, Sl. No. 1

	empanelled.		
175	2 The L1 bidder along with other technically qualified bidders who are willing to match the L1 price will be empanelled.	Does all technically qualified bidders get chance to match L1 price?	Yes
176	2 The remaining plazas will be awarded on rotation basis to the other empanelled bidders by the CCH provider.	How CCH provider will decide contractor from empaneled bidders for remaining plazas? any further negotiation ? What is the criteria for rotation among empanelled bidders.	The bidder shall refer to corrigendum 2, Sl. No. 1.
177	3.1 A. II . A company of foreign origin but with an office registered in India ---	Is subsidiary of foreign origin eligible as an office registered in India?	Yes as long as it is a 100% owned subsidiary
178	3.1 A.IV should be added.	A.IVA company of foregincrigin but with an office registered in india involved in the Design, Engineering, Supply, Installation, System integration, Testing, Comminining& Maintenance of Toll Systems including tag/OBU-based ETC can form a consortium with one local company who can provide local support for implementatoin in India.	As per RFP

179	3.1 B., C., D.	In case that the bidder is a consortium, is the eligibility requirement satisfied if one of the consortium member satisfies the requirement? Or both of consortium member needs to satisfy the requirement either individually / collectively.	The bidder shall refer Corrigendum 2, Sl. No 3, Corrigendum 2, Sl. No. 4, Corrigendum 2, Sl. No. 5.
180	3.1 C. The bidder should have an average annual turnover of IndianRs10crores for the last three financial years.	We believe that Indian Rs 10 crores for an average annual turnover for the last three financial years is too small considering size of this project including 50 toll plaza. The company having Rs. 100 crors for the same should be qualified to make this project successful.	As per the RFP.
181	3.2 c) This may include a UPS of suitable capacity supported by a Diesel Generator set(s).	In order to estimate the power supply cost for electricity outage, please provide the site location and estimated electricity outage time per day. Just to confirm that back up power is required for ETC scope excluding the existing system.	Bidder's responsibility
182	3.3 Evaluate proof of concept demonstrated by bidder	Is there any deadline of the proof concept demonstration?	The bidder shall refer to Corrigendum 2, Sl. No. 8.
183	3.3 Technically Qualified bidder confirm to match price of L1?	Is there any deadline for bidders to answer about matching the L1 price.	7 calendar days

184	3.3 Note: The bidder shall demonstrate the proof-of concept of the Toll Plaza ETC system described in this tender at a location in India.	Please provide more information of proof-of-concept, such as the time to start implementation and demonstration, the duration of demonstration, criteria to evaluate the demonstration, who and how to bear the cost related to the demonstration. The bidder need these information to estimate the cost in the tender price.	Please refer Sl. No. 4 (clarification to question no 2) of this clarifications document.
185	5 -----Whether Tag has been issued by only IHMCL	Does it mean that only IHMCL is authorised to issue tags to the vehicles on the road and also vehicle newly coming out in market.	IHMCL will issue the tags through CCHContractor / service provider
186	5.2 Equipment Position of Region 1(The entrance) in Fig4.1, Fig4.2(a)-(c)	Where is the exact location for loop I, in front of the transceiver or at the back of the transceiver?	Typically in front of the Transceiver
187	5.2 Fig 4.2 (c) General arrangement of ETC lane – Alternate view #2	Is it allowed to modify the system layout of Fig 4.2(c)?	The bidder shall quote in line with the given layout in the RFP.
188	5.2.4. Further in conjunction with the information from the vehicle detector loop the direction of travel like reverse entry or vehicle rolling back from ETC lane, is also recorded.	Is it allowed to modify the layout or place additional equipment in order to detect Reverse entry / rolling back?	The bidder shall quote as per the RFP.

189	<p>5.3.1. The process of Tag Authentication involves the use of processes like tag TID authentication (i.e. the use of a Tag White list in every ETC Toll Plaza system) and a Tag –reader challenge response system.</p>	<p>Does this mean Tag-reader should input Tag Authentication result to the system? Does "response system" mean "ETC Toll system"?</p>	<p>A Tag Authentication algorithm using any or all features described in the clause will be provided to the successful bidder.</p>
190	<p>5.3.1. The specific optimized algorithm for Tag Authentication pertaining to the IHMCL nation-wide ETC program will be provided to the empanelled bidders during project execution phase.</p>	<p>Is it TLC which should work for this function?</p>	<p>It shall be a lane function and is left to the bidder to implement in the TLC , the transceiver or divided between them etc.</p>
191	<p>5.3.2. The ETC Toll Plaza system downloads and updates a list of blacklisted tags from the RFID host at the CCH, every day at regular intervals (e.g. every 30 min). Table 4.3. Data transfer between ETC Toll Plaza system and CCH "Typically once an hour"</p>	<p>There is a discrepancy with Clause 5.5 which defines blacklist update as Typically once an hour (not once per 30 minutes).</p>	<p>The values provided in the RFP are to be seen more as typical examples. The actual times will be decided based on consultation with the CCH in order to optimize performance.</p>

192	5.3.2. The blacklists are created & managed at a central level by the Central Clearing House (CCH) and are centrally available for download to every toll plaza supporting the IHMCL ETC program.	How many black items are estimated to be registered on the blacklist? Is it max 5,000,000? Is download scope only for additional data or the total list?	On the number of blacklist items the bidders shall make their own judgment based on information given in the RFP. Download scope is typically only for only blacklist updates. However on a special request (in case of a Toll Plaza ETC system crash) the CCH may help with a complete list.
193	5.4. No.19:UPS and No.24:UPS in Table4.2	There are two requirements for UPS at No,19& 24. Is this redundant or different requirement?	The bidder shall refer to corrigendum 1, Sl. No. 2
194	5.4. No.23 Broadband Internet connection	Is the contractor's scope supply and commissioning of network equipments? Who would pay for the internet connection fee?	Yes. The internet connection fee is in the scope of the bidder.
195	5.6.3 (i) The System shall have functionality to feed in ...Registration no. of vehicles.	Please provide more detailed description about concept and required condition (transaction volume, frequency etc.) of and-held device and manual registration.	The bidder shall refer to Sl. No 105 of this clarifications document and Corrigendum 2, Sl. No. 10.
196	5.6.3 (ii)The System shall have validate each transaction for completeness	Does this mean the system requires equipments which confirm the validity of transaction data?	As per RFP.
197	6.1.1 Ethernet/Serial communication in table No.2	Does this mean "Ethernet or Serial" or "Ethernet and Serial"?	It can be either Ethernet or Serial as long the functionality and the SLA are met.

198	6.1.1 * is in the wireless license free band for RFID use in India. Typical existing product(s) for 'RFID-based-ETC' operates in the 865 MHz – 868 MHz band.	Are there any designated frequency, such as 865.5MHz or 866.5MHz?	The system shall work in the frequency band specified in the RFP
199	6.1.1 Antena: Circularly Polarized	Please crify the type of circularly polazation, such as left-hand side or the right-hand side.	Either is acceptable as far as the system functionality, other specifications andthe performance specifications are met.
200	6.1.1 Antena: Circularly Polarized	Please accept the linear polarized antenna too, because there are manufacturers to provide the linear-polzaied type tag, and the communication between linear polarized antenna and linear polazied tag is best performance.	As per the RFP.
201	6.3.1. The hard disk shall have enough memory to load and maintain all necessary program tables (like ETC black list, white list, discount list etc.) and data in memory, to optimize the toll collection functionality.	Please specify data volume of white list, black list, discount list and toll table.	The bidder shall refer to Clause 5.6.3.1. (vi) Scalability in order to determine / derive the required information

202	6.3.1.11, An automatic / manual data validation process is required to check for data continuity and missing/duplicate data. An audit trail of manual corrections is required. The data validation process shall be linked to a "data not complete" message that will be indicated on reports if data is missing / pending validation / consolidation.	Please provide more detailed description, such as frequency for update, etc.	This feature is required to ensure complete transfer of the required data(e.g. Transactions) from the lane system to the Server. This feature shall be performed automatically and ONLINE
203	6.3.1. 12 Further, the TLC (via the AVC) shall monitor the lane at all times for any traffic violation or incident; and for failure of any of the toll equipment.	Is it required to connect CCTV with AVC for monitoring?	The bidder shall provide an Incident detection system involving the use of Cameras as per the RFP requirements
204	6.3.2 f) Processor speed: 1 2Ghz min	Does this mean 1.2Ghz?	Yes, please refer corrigendum 2, Sl. No. 17.
205	6.4.1 The AVC system shall be 100% auditable and accuracy of vehicle counting should be 99.5% and classification accuracy shall not be less than 98%	Is there any problem if AVC eliminates unspecified-class vehicles for classification accuracy?	The bidder shall refer to corrigendum 2, Sl. No. 19& Sl. No 20.

206	6.4.3.3 The AVC shall be able to distinguish between classes as per the applicable notifications of MORTH	What is the definition for "applicable notifications of MORTH"?	Please refer Corrigendum 2, Sl. No. 18
207	6.4.3.8 The AVC shall have its own battery backup	Is it necessary to have battery back up for AVC even though UPS backs up the total system?	Yes
208	6.4.4.1.1 The AVC shall be able to automatically classify the classes of vehicles as indicated in the vehicle class table to an accuracy of 99.6% without manual intervention and class correction or validation.	Does this require accuracy of 99.6% with or without manual correction?	The bidder shall refer to corrigendum 2, Sl. No. 19& Sl. No 20.
209	6.4.4.2 Indian RTO authorized classification category	What is the definition for "Indian RTO authorized classification category"?	Classification category used for registration of vehicles by the Regional Transport Office (RTO) in India
210	6.4.4.9 Ensure that no vehicle can pass through the AVC and miss axle counting. Number of Axles per vehicle is accurately counted for every vehicle passage.	Since we guess it is difficult to keep accurate count only by light curtain, is it allowed to introduce any other relevant counting method?	Yes, but it is the bidder's responsibility to ensure the required AVC accuracy.

211	<p>6.5.1 The User Fare Display (UFD) shall be located in the toll lane in a position where it is readily visible to and readable by Users from the pay point. The display has the primary purpose of informing the User of the vehicle. It shall convey ETC balance information & low balance warnings, public relations and seasonal messages.</p>	<p>What is the distribution network of public relations and seasonal messages? Is it distributed from CCH to TLC via Toll Plaza server?</p>	<p>Locally updated</p>
212	<p>6.6.3. The Automatic Barrier Gate shall receive power directly from dedicated online UPS.</p>	<p>In case UPS is not effective to provide electricity, is there any problem if diesel generator provide electricity instead?</p>	<p>This is acceptable as long as the system performance is not affected.</p>
213	<p>6.12. Each camera shall view and detect vehicle images for its lane. The cameras shall be located so that sidelong profile of the vehicle is obtained as it crosses the AVC, so that the number of axles of the vehicle crossing the AVC shall be clearly visible when the vehicle is exiting the lane. The camera shall have an automatic adjustment of brightness.</p>	<p>Does this mean Incident Capture Camera counts number of axles?</p>	<p>The Incident Camera is adequately positioned such that the number of axles of the vehicle can be clearly seen in its image (of the vehicle). This will help during incident audit of a class violation</p>

	The housing shall be an IP-65 rated Enclosure to withstand adverse weather conditions.		
214	6.15 6.15.1-6.15.5	Please provide more detailed description about Hand-held RFID Reader, including application, network and definition of Host computer.	Please refer to Sl. No. 105 of this clarifications document.
215	6.16.5.2 Number of Processors:2	Is this just a requirement about number of processors? Or does this mean redundancy of the system? Power Supply & fan & HDD has redundancy by hot swap.	The bidder shall quote as per the RFP
216	6.24 At any time, the purchaser wants to add additional workstations and its peripheral hardware from the system, shall be able to do so without any additional cost to the purchaser.	Does this mean the contractor need to provide additional workstations and peripheral hardware beyond the quantity specified in the P26 Table4.2?	Providing the workstations is not in the scope of the contractor. However the system shall have adequate capability (e.g. Network switch capacity) to connect such workstations

217	6.28.12 k) RS232 port:2, l)LPT port:1, m)PS2 port(mouse), n)PS2port(keyboard)	What is the purpose for RS232 port and LPT port. Is it allowed to replace m),n) with USB?	These specifications are typical. The bidder can provide the system to meet the required functionality.
218	6.29.1.1 Online UPS with 4 hours of backup and sizing based on power requirement calculation	Is it allowed to specify UPS's function as backup for the period until diesel generator starts operation, instead of 4 hours?	The bidder shall quote as per the RFP
219	7.1.2 The Scope of work (Operation)	Please clarify the scope of work and responsibility for five year operation work, including division of responsibility between ETC lane (this ERP) and existing manual lane.Please clarify who bear the cost of raw electronic power for operation of ETC system during 5 year O&M period.Please clarify what kind of regular (daily, monthly, and annually) reports shall be submitted to the CCH provider.	The contractor shall be completely responsible for meeting the SLA. The cost of raw power shall be borne by the Contractor. Reports shall be finalised in consultation with the CCH contractor/service provider
220	7.1.14. The System shall use a dedicated bandwidth of 2Mbps for each interconnected ETC system at Plaza's.	In case the site locates in area that doesn't have "2Mbps" wireless communication, is it allowed to use existing wireless communication?	The connectivity shall be of the required bandwidth (2 Mbps) and meet adequate reliability and availability requirements

221	<p>7.1.32 The SAT will be performed on site at the Employer premises on the operational platform. The SAT will be performed by the Contractor in the presence of the Engineer and its assigned representatives.</p>	<p>While "SAT "is defined as "Site Acceptance Test", Table of Acronyms and Abbreviations specifies SAT as "System Acceptance Test". Which is correct? We request to distinguish "Site Acceptance Test" and "System Acceptance Test".</p>	<p>SAT stands for System Acceptance Test at site.</p>
222	<p>7.1.43.B. The Warranty Period for the replacement or repaired Goods will be extended by a period equivalent to the period commencing from the date of the said notification to the date of acceptance of the repaired/replaced Goods by the Engineer/Employer in the UAE.</p>	<p>What is the definition for UAE?</p>	<p>The bidder shall refer to corrigendum 2, Sl. No. 38</p>
223	<p>7.1.43.B. The warranty will continue in respect of any replaced item for a period of twenty four 5 Years form the date of replacement</p>	<p>Is twenty four 5 years misprint? Is it 5 years?</p>	<p>The bidder shall refer to corrigendum 2, Sl. No. 38</p>

224	7.1.43. C An extended warranty for any parts such as devices and equipment provided from not approved countries of origin as per Specifications Section 01600 shall be provided.	What is the definition of Specifications Section 01600?	The bidder shall refer to corrigendum 2, Sl. No. 38
225	7.1.52.D The contractor shall give a quotation for each year --- on a yearly basis up to 5 years.	This requirement is not included in essential documents for Price Evaluation at 7.2.2.3. Is it voluntary to answer to this requirement?	The bidder shall refer to corrigendum 2, Sl. No. 42
226	7.2.1 bank guarantee	Is there any requirement about bank eligibility as guarantor?	The bidder shall refer to Corrigendum 2, Sl. No. 45.
227	7.2.2.1 d) completion certificates from existing clients to establish the commissioning of 25 ETC lanes	In case we translate non-English certificate into English, who should certify the translation?	The Translation can be self-certified. However in case any serious misrepresentations are detected later the bidder may be liable for disqualification / cancelation of contract.
228	7.2.2.3. Unit Rates Rs	Is it possible to submit price in USD or any other foreign currency?	The bidder shall quote as per the RFP
229	7.2.2.3. For O&M a monthly lump sum price for a period of 5 years shall be provided.	Is it possible for bidder to hedge the inflation risk, such as by using specified escalation formula?	As per RFP
230	7.2.3.. Payment Terms	What payment security does the employer provide?	As per RFP

231	7.2.4. Penalties	Are these penalties sole and exclusive remedy? We request this condition and terms add clauses about total liability cap and exclusion of consequential damage.	As per RFP
232	7.2.6. Termination	There should be a clause about "on the employer's breach of contract" There should be a clause about the indemnification for the contractor in case of employer's default and termination without contractor's fault.	As per the RFP.
233	7.4.1 The Contractor shall ensure uptime availability of ETC lanes for at least 99%.	How will uptime and downtime be measured? What is the definition of uptime availability? When there happens downtime without the contractor's fault, is that downtime counted as uptime?	The bidder shall refer Corrigendum 2, Sl. No. 63.
234	7.6.2 The Contractor shall be required to supply all test equipment and permanent site test equipment and tools, where necessary.	What is the definition of permanent site test?	The bidder shall refer to Corrigendum 2, Sl. No 65
235	Overall	If bidder requests deviation from the original condition and terms, what process is allowed?	Conformity to Bid conditions is an essential element of Technical evaluation.

236	Overall	Please clarify who will provide security for ETC Lane components and workers from possible theft / damage during the implementation period before handing over.	Any arrangements and insurance for the same is in the scope of the bidder
237	Overall	Please clarify if the Report by Apex Committee for ETC Implementation issued on September 2011 is a part of this RFP.	The bidder shall quote as per the RFP
238	Overall The remaining plazas will be awarded on rotation basis to the other empanelled bidders by the CCH provider.	As 50 Plaza is guaranteed for L1 bidder, Please guarantee minimum no. of plazas to be awarded on rotation basis. The no. of plaza should be specified for price estimation.	The bidder shall refer to corrigendum 2, Sl. No. 1
239	7.2.1 a) On being issued the letter of empanelmentSecurity deposit for an amount of Rs. 5000000 (fifty Lakhs) for a period of 2 years.	This figure should be decided as minimum no. of plaza is guaranteed.	The bidder shall refer to corrigendum 2, Sl. No. 1. The bidder shall quote as per the RFP.
240	7.2.1 b) On the award of contract for specific toll plazasPerformance bank guarantee of rs 10,00,000 (Ten Lakhs) per site.	What is the meaning of per site ? Is it per plaza? If so, How many lanes per plaza ?	It means "per plaza". The number of lanes are 2 (one in either direction). The bidder shall also refer to Corrigendum 2, Sl. No. 58.

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S.No	Clause	Description of Query / Comment / Request for Clarification	IHMCL's response
241	Definitions	IHMCL, Purchaser, Employer, Concessionaire are used across various sections of this document. Kindly clarify the roles & responsibilities of all the stakeholders w.r.t this contract.	<p>IHMCL will perform the role of evaluation of bids against this RFP and empanel vendors for the Toll Plaza ETC systems.</p> <p>The contract for setting up , operating and maintaining a Toll Plaza ETC system for a particular plaza (or a set of plazas) will be awarded and managed by the CCH (Central ClearingHouse) service provider/Contractor. IHMCL is presently in the tendering process to appoint a CCH service provider / Contractor. The Employer and Purchaser will be the CCH service provider/Contractor.</p> <p>The Concessionaires operate the BOT plazas and the proposed Toll Plaza ETC system will also be set up on exclusive lanes in such plazas.</p>

242	<p>3.2.a</p> <p>On the other hand, at the private-funded (BoT) toll plaza, apart from interfacing with the CCH, the system may have to interface with the local concessionaire's existing toll management system (TMS). For this purpose the bidder shall provide the required interfaces to his system and extend the necessary support (at no extra cost) for establishing the required connectivity with the existing Toll Plaza TMS.</p>	<p>Is the CCH provider able to set interface standard that private local concessions must conform to? All costs incurred (development, commissioning, etc.) by the private concessionaire are responsibility of the private concessionaire?</p>	<p>The bidder shall refer to corrigendum 2, Sl. No. 6</p>
243	<p>3.2 (b)</p> <p>Operation & Maintenance of the above system for a period of 5 years after system commissioning</p>	<p>What does operations include? Kindly clarify in detail. Diesel for DG will be in whose scope? Who will be operating the ETC handheld reader & under whose scope this manpower will be?</p>	<p>Operations mainly include the following:</p> <ul style="list-style-type: none"> a) Ensuring that Transactions are uploaded to the CCH at regular time intervals b) Ensuring that blacklists and other lists are downloaded from the CCH at regular time intervals c) Operating the Hand-held RFID reader to read tags on vehicles d) Uploading the hand-held RFID reader transactions to the Host computer (Local ETC Server) at regular time intervals and downloading the blacklist and other lists from the same at regular time intervals e) Generating estimated ETC revenue based on the reconciliation files received from the CCH f) Violation processing on the

			<p>Incident Management system</p> <p>g) System housekeeping</p> <p>h) Generation of reports</p> <p>Diesel for the D.G. set will be in the scope of the bidder</p>
244	3.4 Award of work	When will be the order for first 50 public-funded plazas awarded?	The bidder shall refer corrigendum 2, Sl. No. 1
245	3.4 Award of work	Who will be placing the order. IHMCL/Concessionaire/NHAI?	The contract will be awarded to the bidder by the CCH service provider / contractor while the empanelment as per this RFP will be performed by IHMCL
246	3.7 Taxes	Will form "C" be provided and whether duties will be exempted?	The bidder shall refer corrigendum 2, Sl. No. 1
247	5.1 For a vehicle whose tag is determined to be 'not valid 'the boom barrier gate is closed and the vehicle is guided out via the eject lane into an adjacent mixed / manual cash lane. Here a variety of payment methods will be facilitated starting with an attempt to read the tag with a hand-held RFID reader.	If a tag is not read by ETC reader due to any reason & the vehicle is guided into the adjacent manual/mixed lane, then how can an ETC transaction be performed using handheld RFID reader as the devices/system for adjacent manual lane will be an independent system & tag reading by handheld cannot open the barrier gate for this manual lane?	The bidder shall refer to Sl.No. 105 of this clarifications document.
248	5.2.3 Note: The distance between the Entrance region and the ETC Transaction region is at least 60m.	Is there an expected maximum vehicle speed in the ETC lane?	The lane system shall support a speed up to 60 km / h.
249	5.2.4 Positions & use of lane sensors & indicators	Since all logics & equipments are specified in this RFP for detection of vehicles at various stages, kindly also provide the distance between each indication & detection point.	This shall be determined the bidder typically based on the choice of the components / equipment selection and their integration.

250	5.2.4 V V. The Manual/Mixed exit: This is the alternate exit from the ETC lane.	Are these devices not already provided by the existing concessionaire?	These devices are located in the exit segment of the ETC lane. They have no relation with the adjacent manual cash / mixed lane into which the ejected vehicle is guided into.
251	5.3.2 The ETC Toll Plaza system downloads and updates a list of blacklisted tags from the RFID host at the CCH, every day at regular intervals (e.g. every 30 min).	What is the required black list update interval - there are references of 30 minute & 1 hour in separate sections?	The figures given are typical and are likely to be of this order. The actual figures shall be arrived at in consultation with the CCH during project execution.
252	5.4 ETC lane equipment : Item 23, Broadband internet connection with min 2 Mbps link	Since the toll plazas are generally located at remote locations, if feasibility of broadband is not there then what other alternate medium can be adopted? Who will bear the additional costs (if applicable) for alternate connectivity?	Generally the plazas are covered with GSM / GPRS Services and landlines. No extra cost will be paid to the bidder for the same.
253	5.6.3.1 Reports	Can a minimum list of required reports be provided?	The reports shall be finalized in consultation with CCH during project execution
254	5.6.3.1 The System shall: (i) have functionality to feed in transaction data through Hand-held devices and manually entry of Registration no. of vehicles.	How is this applicable in case of ETC ejection lane? Kindly clarify.	The bidder shall refer corrigendum 2, Sl. No 10. as well as Sl. No. 105 of this clarifications document
255	6.2.1 Electronics Enclosure: IP65	If the enclosure is mounted inside tunnel or toll booth, can IP55 enclosure be accepted?	Apart from specifying for enclosures that are installed outdoors, IP 65 has been specified to account for situations of water ingress in tunnels of sufficient magnitude to warrant the same. The bidder shall quote as per the RFP.

256	6.3.1.5 Further, there should be a mechanism for auditing the real time data transmission (including incidents) over a predetermined time period (say 30 minutes) and automatic data retrieval from the lane in case of data mismatch	What is the definition of an 'incident'?	Incidents form a subset of exceptional situations related to toll transactions.
257	6.3.1.7 Reference to 'Shift'	These are unattended transactions - why is shift required? Kindly clarify.	For the purposes of relating and reconciling ETC traffic to total and non-ETC shift-wise traffic for the benefit of the concessionaires and NHAI.
258	6.3.1.14 However as the vehicle class description at each toll plaza for the same vehicle may be different, the TLC shall maintain a mapping of the CCH Vehicle class to the Plaza Vehicle class.	Can NHAI provide the number of different vehicle class schemes that need to be mapped?	The bidder shall refer Corrigendum 2, Sl. No. 18
259	6.4.4.10 AVC enclosure shall have IP65 protection.	If the enclosure is mounted inside tunnel or toll booth, can IP55 enclosure be accepted?	IP 65 has been specified to account for situations of water ingress in tunnels of sufficient magnitude to warrant the same. The bidder shall quote as per the RFP.
260	6.4 As per specifications defined in RFP, separate controller for TLC & AVC is required.	Since ETC operations will be unmanned & this is dedicated ETC lane, TLC & AVC in our opinion can be single controller. Kindly confirm if this is acceptable.	The bidder shall quote as per the RFP
261	6.4.4.2 The Contractor shall submit a detailed list of vehicles with photographs and Indian RTO authorized classification category of all models of vehicles found in India as part of Technical	Is NHAI not defining the categories and mappings?	The bidder shall quote as per the RFP

	specifications delivery.		
262	6.5.2 UFD display: Red LED	Red is the colour which is universally used for warnings. Amber colour is used for informatory messages. We recommend to use Amber colour for UFD as a good industry practice.	As per RFP
263	6.6.2 Boom Barrier: Boom length 3.5mtrs	Standard boom length for high speed barriers is 3mtrs. Kindly confirm if the same is acceptable?	The bidder shall refer to corrigendum 2, Sl. No. 24
264	6.8.2 Traffic light: Enclosure - Stainless Steel	Can polycarbonate enclosure be accepted?	The bidder shall refer to corrigendum 2, Sl. No. 25
265	6.16 ETC Server	We understand that the space for servers, equipments & manpower shall be provided. Kindly confirm.	Yes. Space in the form of land will be provided.
266	6.18.2 System Software 1. The system shall be in Domain environment and all workstations must connect to that domain. 2. An additional secondary server shall be provided, which shall take over immediate charge of Primary server in case of its failure. In other words, this shall be a hot stand by to the primary server in all aspects. 3. The specification, make, model of all the accessories of the secondary domain controller shall be same as that of the primary domain controller.	The requirement is not clear. Kindly clarify as which servers are required in standby mode? In this section primary & secondary domain controller are specified & the same are not reflected in BOQ. Also there is only 1 ETC Server specified in BOQ for each plaza. Kindly clarify the same?	The bidder shall refer Corrigendum 2, Sl. No. 9 and Corrigendum 2, Sl. No 56 b). The primary domain controller may be part of the main ETC Server and the secondary domain controller may be part of the hot-standby server.
267	6.24 At any time, if the purchaser wants to add additional workstations and its peripheral hardware from the system,	Requirement not clear. Kindly clarify what has to be borne by the bidder?	Provision of additional workstations is not in the scope of the bidder. However the system shall support the connection of such a workstation without additional

	shall be able to do so without any additional cost to the purchaser.		cost to the purchaser. The bidder shall indicate how many such workstations can be connected as above.
268	6.27.2.1 AVC Output graph	What is expected from AVC output graphs? This seems very specific solution is been envisaged. Please clarify.	The bidder shall refer to Corrigendum 2, Sl. No. 30
269	6.28.11 ICS image capturing start from loop occupation to loop liberation and an additional configurable time limit after loop liberation of that transaction. Image capturing shall timeout after 30 seconds (configurable) after loop occupation irrespective of the above condition.	Is this clause referring to images or video has to be provided? Kindly clarify.	Only Images are required to be provided.
270	7.1.2.6 The Contractor is in charge of coordination and system integration with CCH / BoT/OMT and Public Funded Plaza's	We understand this should be in the scope of CCH since CCH will be the central/nodal agency implementing & controlling nationwide ETC system. Kindly clarify the same & also clarify the role of CCH agency?	The bidder shall refer to corrigendum 2, Sl. No 33.
271	7.1.3 f). The Bidder shall define how the user accesses these functions (Tags / Reader/Application, etc).	Please clarify who is the "User" referred here & how the tag/reader shall be accessed by user?	The bidder shall refer to corrigendum 2, Sl. No 34.
272	7.1.3 u) Site-wise enterprise license shall be provided for all software modules used for installation, maintenance, administration and operation.	Kindly clarify whether database license type required is Enterprise/Standard/Standard1?	The bidder shall refer to corrigendum 2, Sl. No 35.

273	7.1.3 The Tender shall include training for the Operator and Maintenance personnel. The training shall be on Site and classroom training with minimum trainees in a suitable facility to be provided by the Bidder.	Requirement not clear. How can a bidder provide trainee? Trainee required to be trained will be provided by IHMCL/Concessionaire. Kindly clarify.	The training is for bidder's own Operation and Maintenance personnel.
274	7.1.9.1 a) The Contractor shall provide a complete single line diagram for the system	Single line diagram are generally applicable for electrical distribution & circuits. Kindly clarify this requirement?	The bidder shall refer to corrigendum 2, Sl. No 36 a).
275	7.1.9.1 The system shall be fully redundant.	Which system is referred here?	At the ETC Server level
276	7.1.12 f The database cluster shall be in an active-active or load sharing configuration.	Implies database cluster is required - please confirm Is a database required at each plaza?	Yes
277	7.1.16 The life-span of the equipment and the associated facilities will be at least five (10) years, based on a continuous 24-hour operational schedule	5 years. Kindly confirm?	The bidder shall refer to corrigendum 2, Sl. No 37.
278	7.1.43 The Warranty Period for the replacement or repaired Goods will be extended by a period equivalent to the period commencing from the date of the said notification to the date of acceptance of the repaired/replaced Goods by the Engineer/Employer in the UAE.	UAE? Kindly clarify?	The bidder shall refer to corrigendum 2, Sl. No 38

279	7.1.43 During the Warranty Period, all defective parts, items or equipment will be replaced at no cost to the Employer. The warranty will continue in respect of any replaced item for a period of twenty four 5 Years from the date of replacement.	Why does the warranty period be 5 years from replacement date of the equipment? It has to be till completion of warranty period of overall system.	The bidder shall refer to corrigendum 2, Sl. No 38.
280	7.1.43 5 years from the satisfactory completion of the Experimental Period. An extended warranty for any parts such as devices and equipment provided from not approved countries of origin as per Specifications Section 01600 shall be provided	Requirement not clear. Please clarify.	The bidder shall refer to corrigendum 2, Sl. No 38.
281	7.1.47 Manufacturer or factory-authorized agency shall maintain on-site service centre capable of providing spare parts and emergency maintenance and repairs for overall system at Project site 7 days a week and 24 hours a day. Competent personnel shall be dispatched to rectify stoppages at any time during the day or night when being called on by the Employer / Plaza operators.	Why does a manufacturer/factory-authorized agency open a call centre for 2 sets of equipment at a particular location? Please revisit the requirement.	The bidder shall refer to corrigendum 2, Sl. No 39.
282	7.1.48 The Contractor shall provide a support on site to users during one (1) month after DLP.	Who are "users" referred in this requirement?	The bidder shall refer to corrigendum 2, Sl. No 40.
283	7.2.1 Security deposit & Performance Bank	What are the timelines for bid opening, empanelment, award & execution of first 50 lanes?	The bidder shall refer RFP clause 7.3 project timelines along with

	Guarantee	Kindly clarify.	Corrigendum 2, Sl. No. 1, Corrigendum 2, Sl. No. 60 as well as this clarifications document S.No. 28 &29.
284	7.2.3 a) 40 % of the system value against Design, Engineering & supply of all equipment b) 40 % after successful installation and integration with CCH c) 10% on successful system testing and commissioning d) 10 % on the successful completion of the Defects Liability Period which shall not exceed 6 months from the date of commissioning.	What are the timelines for CCH contract award and completion of CCH? These are required as the payments are linked with CCH.	Please refer this clarifications document Sl. No. 172
285	General 1	Can we partner with any of the members of IHMCL for this tender?	yes
286	General 2	Once empanelled, till what period (months/years) this empanelment will be valid?	contract period
287	General 3	Once empanelment is done & bidders are empanelled, can a new bidder get empanelled at later stage by agreeing to this empanelment RFP & terms & conditions & at the price of L1 at which earlier bidders were empanelled?	No. This will not be allowed

M-Tech Innovations

S.No	Clause No	Description of Query / Comment / Request for Clarification	Clarification by IHMCL
288		<p>Dear Sir,</p> <p>This is with reference today's pre bid meeting about the RFP for empanelment of agencies for Plaza ETC Systems, we at M-Tech innovations Ltd. would like to request to consider the eligibility criteria as "bidder shall have the experience of successfully commissioning a minimum of 10 ETC lanes based on RFID card based system in the last 3 years (till the year ending March 2013).</p>	As per RFP

KENT

S.No	Clause No	Description of Query / Comment / Request for Clarification	Clarification by IHMCL
289		1. Can you please dilute the Financial Qualification criteria as per clause no 3.1 (C)? WE have implemented project for ETC at Mumbai Pune Expressway, Ahmadabad Vadodara Expressway and BandraWorli Sea Link dedicated ETC. Still we are little short of average annual turnover as required. Can we propose to reduce the Average Annual Turnover to 7.5 Cr; for last 3 years?	As per RFP
290		2. In case of Joint Venture between the 2 companies; would all the qualification criteria by 2 JV members be added together to qualify? For example if Company A is having Average Turnover of 7 Cr and Company B is having Average Turnover of 3 Cr; then for the JV Consortium would the Average turnover be considered as 10 Cr?	The bidder shall refer to Corrigendum 2, Sl. No. 3, corrigendum 2, Sl. No. 4, Corrigendum 2, Sl . No. 5.

MTOLL

S.No	Clause	Description of Query / Comment / Request for Clarification	Clarification by IHMCL
291	5.2, 5.4, 6.4.4, etc.	<p>There is a requirement to put Light Curtains, 3 Nos. per lane per toll plaza.</p> <p>In our experience, Light Curtains do not work well in outdoor conditions and in direct sunlight. We have also talked to multiple vendors and they do not recommend Light Curtains for ETC systems.</p> <p>Since Light Curtains will not work standalone in ETC lanes, possible solutions could be:</p> <ol style="list-style-type: none"> 1) Use loop detector instead of Light Curtains; <p>OR</p> <ol style="list-style-type: none"> 2) Vendor can create a shaded canopy and then put the Light Curtain so that it works reliably but that may not be a pragmatic solution and could be capital intensive.. 	As per RFP
292	6.6.1	<p>Boom Barrier should open in 0.6s and open/close cycle should not be more than 1.2s whereas most of the boom barrier makers have specification of 0.9-1.1s for close to open and 2second for complete cycle.</p> <p>The issue of working of the system could be managed by the appropriate placement of the boom barrier at the lane exit.</p>	The bidder shall quote as per the RFP specification
293	5.6.2 / 7.6.13 / 6.3.2.1	<p>Storing images per transactions. Storing two images per transaction for 50,000 transactions per day means that approximately 25GB of images will be collected everyday (at 640 x 480 pixels in JPG format). That means for storing 1 month images in each lane would require at least 750GB. In that case, 160GB disk size will not work.</p> <ol style="list-style-type: none"> a) Data retention policy has to be revised to a lower limit otherwise it will result into huge server farms at 	Images shall be stored only for incidents / violations.

		the toll plaza storing not very useful information. The storage policy should be in sync with the purpose it is supposed to serve meaning that if a user can dispute transaction within 30 days then store the data for 45 or 60 days but not more.	
294	5.5 / 5.6.2/ 7.6.13	<p>In clause 5.6.2 the ETC transaction includes image of the vehicle (JPEG). For a standalone system this is workable but in case this data has to be sent to the CCH then approximately 500KB of data has to be uploaded to the server for each transaction. Assuming 50,000 transactions per day then it means uploading of 25GB of data every day. 2Mbps connection will not support this level of data</p> <p>Multiple solutions:</p> <p>a) The images are not sent to the CCH. If there is any dispute in transaction then the ETC solution provider would have to give the corresponding image. If image is not present then the ETC provider will have to bear the cost.</p> <p>b) The vendors get higher internet upload connections at the toll site.</p>	Images shall be sent to the CCH only in case of Violation transactions
295	5.6.3.1(v)(e)	"Automatic logging of every sensitive action in the system". What is sensitive action? Clarification sought	Any important action related to the Toll system operation.
296	6.3.1.9	What are reportable incidents? Clarification sought	Examples of such Incidents include vehicle ejection, vehicle roll-back, reverse entry etc
297	6.3.2.1 TLC PC specifications includes · NIC – 1GBPS x 2 numbers on board, · PCI slots- 2 Nos,	<p>By specifying these extra components, the error rate in the hardware increases dramatically</p> <p>We feel that these system requirements are obsolete and in the current technological environment we would recommend that the PCs for the toll lane should be COTS so that it can be easily replaced. Furthermore, an ETC toll machine does not really require PCI cards or frame grabbers. These components would increase the cost of lane hardware, may not be procured easily and would make it more difficult to replace in case of a failure.</p>	The bidder shall quote as per RFP

	<p>Frame grabber cards(if used for capturing images). Framegrabbers would be redundant if the IP cameras are used.</p>		
298	<p>6.4.4.1.1 AVC shall classify to accuracy of 99.60% or otherwise it shall never classify a vehicle to any defined category in the classification table. Do you mean classify with 99.60% confidence? Or does that mean that the vendor's accuracy is 99.60%. Achieving 99.60% accuracy in India is difficult because of vehicle overloading.</p>	<p>The requirement could be modified to state that the data should be used only if the AVC classifies the vehicle to a CCH defined category with 99.60% probability otherwise it should just say "Unable to Classify". Is it possible for NHAI to suggest a few AVC vendors who can guarantee the required rate of accuracy in Indian environment?</p>	<p>The bidder shall refer to corrigendum 2, Sl. No 19 and Sl No. 20</p>
299	<p>Section 7.1.4 / 3.2 / 7.1.2.5</p>	<p>In regards, to the integration with the existing concessionaire TMS system. Can we assume that an opportunity and time will be given to the ETC provider to understand the current TMS system and coordination with the current TMS systems will be facilitated by</p>	<p>The bidder shall refer to corrigendum 2, Sl. No 6.</p>

		<p>the concessionaire?</p> <p>Further, this integration will have to be under a separate agreement as it relates to source code, security of information in both individual system, and liability of data breaches have to be accounted among other aspects.</p> <p>Modify the clause so that the integration with the current TMS is a mutual responsibility between ETC provider, current TMS provider and the concessionaire. Further, this integration will come under a separate agreement where the existing TMS vendor would have to sign so that the information can be responsibly shared.</p>	
300	Section 3.1	<p>Eligibility Criteria –The eligibility criteria is strict and it is very difficult for new companies to qualify for this criteria. It only favours existing ETC providers.</p> <p>You may consider dropping the current 25 ETC clause.</p> <p>Probably impose the following condition <i>“if a company wins the letter of award for empanelment then the said company would have to showcase its ability of cashless automated ETC lane to the IIMHCL engineer within xx days. If the IIMHCL engineer does not approve the cashless ETC lane then the bid amount would stand forfeited.”</i></p>	As per RFP
301		<p>For Nationwide ETC tender, we have to submit EMD of 500000 in form of DD. This DD will be in favour of NHAI (payable at Delhi) or IHMCL (payable at Delhi). Please clarify.</p>	EMD in the form of DD shall be in favour of IHMCL (payable at Delhi)