CORRIGENDUM -2

Dated: 28.03.2022

Request for proposal (RFP) for Selection of Vendor for Design, Develop, Commissioning and Operations & Maintenance of Common Tolling Software (CTS) – 3rd Call

RFP Reference No.: IHMCL/CTS/2022/03 published on dated 02.03.2022

Sl. No.	Section	Original Clause	Updated Clause
1.	RFP Clause 3.21.3 SI#B3, Evidence of having used 'emerging technologies' – 1	**Evidence of having used 'emerging technologies' – 1** The bidder, including any member of the consortium should have carried out project of Contract value of at least INR 25 Lakhs involving Usage of Blockchain® technology in any sector or industry within the last five years prior to the due date for government authorities or private entities. Both completed and ongoing projects shall be considered. Marks shall be provided as below: •　1 qualifying project – 5 marks, subject to maximum of 10 marks. The bidder shall submit a brief writeup explaining how the Blockchain® technology is involved in the qualifying project.	**Evidence of having used 'emerging technologies' – 1** The bidder, including any member of the consortium should have carried out project of Contract value of at least INR 25 Lakhs involving Usage of Blockchain® technology in any sector or industry within the last five years prior to the due date for government authorities or private entities. Both completed and ongoing projects shall be considered. Marks shall be provided as below: • 1 qualifying project – ~~5~~ 07 marks, • 2 or more qualifying project –10 marks. The bidder shall submit a brief writeup explaining how the Blockchain® technology is involved in the qualifying project. **Rest all remains same as per RFP.**
2.	RFP Clause 3.21.3 SI#B4, Evidence of having used 'emerging technologies' – 2	**Evidence of having used 'emerging technologies' – 2** The bidder, including any member of the consortium should have carried out project of Contract value of at least INR 25 Lakhs involving Usage of Artificial Intelligence/ Machine Learning/ Robotic Process Automation in any sector or industry within the last five years prior to the due date for government authorities or private entities. Both completed and ongoing projects shall be considered. Marks shall be provided as below: •　1 qualifying project – 5 marks, subject to maximum of 10 marks. The bidder shall submit a brief writeup explaining how the Artificial Intelligence/ Machine Learning/ Robotic Process	**Evidence of having used 'emerging technologies' – 2** The bidder, including any member of the consortium should have carried out project of Contract value of at least INR 25 Lakhs involving Usage of Artificial Intelligence/ Machine Learning/ Robotic Process Automation in any sector or industry within the last five years prior to the due date for government authorities or private entities. Both completed and ongoing projects shall be considered. Marks shall be provided as below: • 1 qualifying project – ~~5~~ 07 marks, • 2 or more qualifying project –10 marks. The bidder shall submit a brief writeup explaining how the Artificial Intelligence/ Machine Learning/ Robotic

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		Automation technology is involved in the qualifying project.	Process Automation technology is involved in the qualifying project. **Rest all remains same as per RFP.**
3.	RFP Clause 6.5.3, KPI 1: System Availability	RFP Clause 6.5.3, KPI 1: System Availability	Updated RFP Clause 6.5.3, KPI 1: System Availability is provided at Annexure-1, Rest all remains same as per RFP.
4.	New Clause, 6.4.4. Existing data size		The existing estimated data size is provided as below – <table><tr><td>**Project Data**</td><td>**Estimated data size**</td></tr><tr><td>NPCI – Overall DB size Production + Archival (ETC transaction data since inception, NETC Mapper data vehicle/FASTag details data, etc. as on bid release date)</td><td>6.05 TB</td></tr><tr><td>Incremental size of DB per day</td><td>6 GB (Can increase based on the volume)</td></tr><tr><td>Average data size per day per plaza, including the following – • Toll Transaction Size • Equipment health status per equipment (per minute) record • Event details (per 5 minutes) record As on January 2022, there are 718 NH Toll plazas.</td><td>28 MB per toll plaza</td></tr></table>

KPI 1: System Availability

Definitions

System Availability is defined as the ratio of "System Uptime" (measured at the Data Centre or at individual Toll Plazas), on a given day ~~over~~ to the "Total Hours" in the day. "System Uptime" is defined at the time in complete hours during which the system was in operation providing full functionality & "Total Hours" is defined as the number of hours between12:00:00 AM to 12:00:00 AM the next day) i.e., 24 hours.

The Contractor shall ensure that the System Availability for any day does not fall below service levels of 99.5%.

Measurement

i) The Service Availability KPI shall be tracked by the System Availability monitoring software for the Project. The details of the software have been captures in the preceding sections.

ii) The following formula shall be used to calculate the System Availability at Data Centre, or at Toll Plazas:

$$Daily\ System\ Availability\ at\ toll\ plaza\ 'x'\ = \frac{System\ Uptime\ during\ a\ day\ (in\ hours)}{24\ hours}$$

$$Overall\ System\ availability =$$
$$\frac{(Daily\ System\ availability\ at\ Toll\ Plaza\ \#1+\cdots+Daily\ System\ availability\ at\ Toll\ Plaza\ \#n)}{Total\ no\ of\ Toll\ Plazas\ (n)} * Impact\ factor$$

The Impact Factor shall be determined as shown in the table below.

S. No.	Scenario	Impact Factor
1	System Not Completely Available (i.e., not available for 24 hours) at the Central Data Centre	0 (Zero)
2	System completely available at the Central Data Centre for 24 hours during the day	1

Notes:

1. If the System is not available at any lane within a Toll Plaza, it shall be treated as unavailable for the entire Toll Plaza i.e., the System Uptime of the 'worst performing' lane will be taken as the System Uptime of the entire toll plaza system for the day.

2. The proposed CTS should be compatible with the standard hardware/software specification installed at toll plazas incl. existing TMS server. The CTS Vendor shall be required to submit integration testing report for handshake with various hardware installed at the Plaza (Existing as well as new).