

# CORRIGENDUM -1

Dated: 18.08.2021

Request for Proposal (RFP) for Selection of Vendor for Provision of Dedicated Cloud Services & Video Analytics Capability

RFP Reference No.: IHMCL/CSP/2021/01 published on dated 04.08.2021

Sl. No.	Section	Original Clause	Updated Clause
1.	Section 3.2, Eligibility / Pre-Qualification criteria Clause 3.2.1, S.No. 3	<p><b>Relevant Project Experience -2</b></p> <p>The Bidder should have successfully completed at least one project related with Capture and hosting of video feed and Usage of video analytics for counting / classification during the last ten years prior to the submission of the bid in India, for any government or public authority.</p> <p>P.S. – The supporting document should clearly highlight the relevant scope of work, contract value and year of execution.</p> <p><b>Supporting Document(s) to be provided</b></p> <ul style="list-style-type: none"> <li>• Copy of the Work Order / Purchase Order / Lol / Contract / Agreement and</li> <li>• Copy of the Work Completion Certificate.</li> </ul> <p>Work order/ Contract clearly highlighting the relevant scope of work, and contract value, year of execution.</p> <p>In the case of ongoing projects, letter issued by competent authority of the client entity on the entity’s letterhead stating the current validity of the contract and reaffirming its value. Such letter should have been issued within the last one year preceding the bid submission date.</p>	<p><b>Relevant Project Experience -2</b></p> <p>The Bidder should have successfully completed at least one project related with Capture and hosting of video feed and Usage of video analytics for counting / classification during the last ten years prior to the submission of the bid in India, for any government or public authority.</p> <p style="color: red;">In case, the Bidder has provided Cloud Services/Servers for any project or application comprising Capture and hosting of video feed and Usage of video analytics for counting / classification as a part of any Govt. Project in India during last 10 years prior to the submission of bid, the project experience shall also be considered for evaluation purpose. In such cases the bidder is required to attach necessary certificate/supporting document wherein the Cloud Services/Servers provided by the bidder should be explicitly mentioned.</p> <p>P.S. – The supporting document should clearly highlight the relevant scope of work, contract value and year of execution.</p> <p><b>Supporting Document(s) to be provided</b></p> <p>(a) Copy of the <b>relevant</b> Work Order / Purchase Order / Lol / Contract / Agreement, and</p> <p>(b) Copy of the Work Completion Certificate/ <b>Relevant document as proof of providing Cloud Services.</b></p> <p>Work order/ Contract clearly highlighting the relevant scope of work, and contract value, year of execution.</p> <p>In the case of ongoing projects, letter issued by competent authority of the client entity on the entity’s letterhead stating the current validity of the</p>

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2.	Section 6.3, Server Requirement, Clause 6.3.1, Requirement	Section 6.3, Server Requirement, Clause 6.3.1, Requirement	The updated server requirement is provided in Annexure-1 of this Corrigendum-1.												
3.	Clause 5.6.4, Implementation Timelines	Clause 5.6.4, Implementation Timelines	The revised timelines are provided in Annexure-2 of this Corrigendum-1.												
4.	Annexure -9, Format for Financial Proposal	Annexure -9, Format for Financial Proposal	The revised financial proposal is provided at Annexure-3 of this Corrigendum-1.												
5.	Section 6.2, Scope Overview  Clause 6.3.3, Migration of Existing Applications	6.3.3. Migration of Existing Applications	<p>The estimated data size is provided as below –</p> <table border="1"> <thead> <tr> <th>Project Data</th> <th>Estimated data size</th> </tr> </thead> <tbody> <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>3.08 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 – <ul style="list-style-type: none"> <li>Toll Transaction Size</li> <li>Equipment health status per equipment (per minute) record</li> <li>Event details (per 5 minutes) record</li> </ul> As on June 2021, there are 655 NH Toll plazas.</td> <td>28 MB per toll plaza</td> </tr> <tr> <td>Traffic Survey Project data</td> <td>1.5 TB</td> </tr> <tr> <td>Other project (Mobile app, etc.) – Lumpsum</td> <td>0.5 TB</td> </tr> </tbody> </table>	Project Data	Estimated data size	NPCI – Overall DB size Production + Archival  (ETC transaction data since inception, NETC Mapper data vehicle/FASTag details data, etc. as on bid release date)	3.08 TB	Incremental size of DB per day	6 GB (Can increase based on the volume)	Average data size per day per plaza, including the following – <ul style="list-style-type: none"> <li>Toll Transaction Size</li> <li>Equipment health status per equipment (per minute) record</li> <li>Event details (per 5 minutes) record</li> </ul> As on June 2021, there are 655 NH Toll plazas.	28 MB per toll plaza	Traffic Survey Project data	1.5 TB	Other project (Mobile app, etc.) – Lumpsum	0.5 TB
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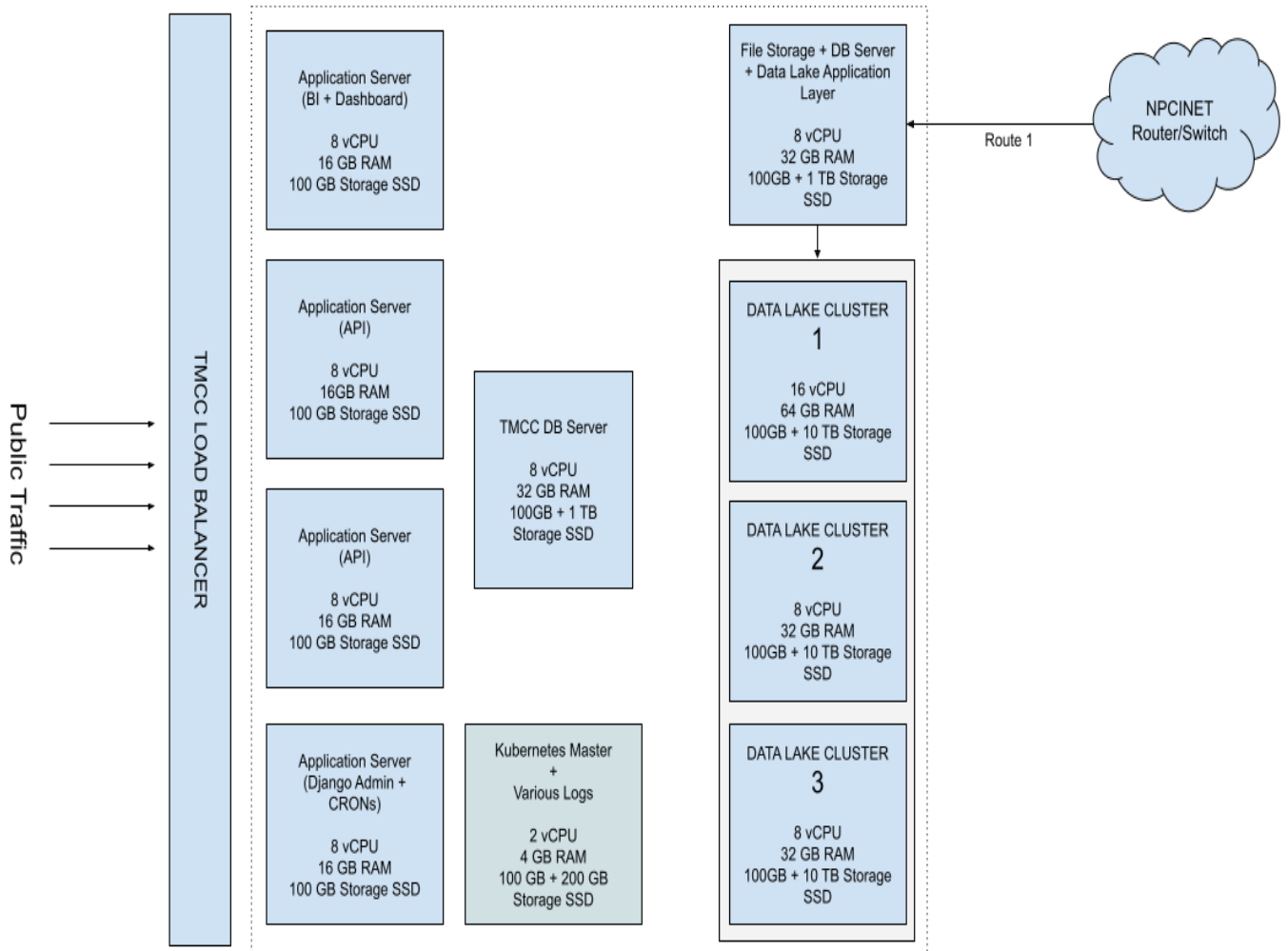
### Annexure -1 – Updated Server Requirement

Type of resource	TYPE of Server	Configuration	Platform	Count
LOAD Balancer				1
VM	Application Server	8 vCPU 16 GB RAM 100 GB Storage	UBUNTU	4
VM	Application Server	2 vCPU 4 GB RAM 100 GB + 200 GB Storage	UBUNTU	1
VM	Database Server	8 vCPU 32 GB RAM 100 GB + 1 TB Storage	UBUNTU	2
VM	Application Server	16 vCPU 64 GB RAM 100 GB + 10 TB Storage	UBUNTU	1
VM	Application Server	8 vCPU 32 GB RAM 100 GB + 10 TB Storage	UBUNTU	2
VM	GPU Server	<ul style="list-style-type: none"> <li>•For 20 Live Feeds:</li> <li>•8+ core CPU</li> <li>•32 GB RAM</li> <li>•1x Nvidia Tesla T4 GPU</li> <li>•1 TB SSD (RAID 1)</li> </ul> Count – 1 per 20 video streams	UBUNTU	1
VM	GPU Server	<ul style="list-style-type: none"> <li>•For 40 Live Feeds:</li> <li>•12+ core CPU</li> <li>•64 GB RAM</li> <li>•2x Nvidia Tesla T4 GPU</li> <li>•1.5 TB SSD (RAID 1)</li> </ul> Count – 1 per 20 video streams	UBUNTU	1

\* All the servers must be available with inter-connectivity of a local lane.

# TMCC Server Architecture Diagram:

TMCC Server Architecture



**Annexure -2 Updated Implementation Timelines**

Activity	Timelines
Date of Acceptance of LOA	T+0
Provisioning of <del>Video Analytics Service</del> <b>Cloud Services</b>	T + <del>3</del> <b>7</b> days
Testing of <del>Video Analytics Platform</del> <b>Cloud Services</b>	T + <del>7</del> <b>15</b> days
Go-Live of the <del>Video Analytics Tool</del> <b>Cloud Services</b>	T + <del>15</del> <b>20</b> days

### Annexure -3 Format for Revised Financial Bid/Proposal

(To be submitted on in the excel format uploaded on the website)

All pricings shall be on pay per use basis and IHMCL will optimize the cloud services in the best interest of IHMCL which will include auto scaling up and down.

**Only the cells highlighted in 'Yellow' are to be filled in by the bidder**

Name of the RFP: Request for Proposal (RFP) for Selection of Vendor for Provision of Dedicated Cloud Services & Video Analytics Capability  
(RFP Reference – IHMCL/CSP/2021/01)

**Name of the Bidder**

**Bid Invitation Date**

**04 August 2021**

#### Form -1 Break-up of Cost

S.No.	Type of resource	Type of Server	Configuration	Platform	Count/ Qty (A)	Unit Rate for 1 month (In Rs.) (Ex. GST) (B)	Total Cost for 05 years (60 months) (In Rs.) (Ex. GST) (C) = (A) * (B) * 60
1.	VM	Application Server	8 vCPU 16 GB RAM 100 GB Storage	UBUNTU	4		
2.	VM	Application Server	2 vCPU 4 GB RAM 100 GB + 200 GB Storage	UBUNTU	1		
3.	VM	Database Server	8 vCPU 32 GB RAM 100 GB + 1 TB Storage	UBUNTU	2		
4.	VM	Application Server	16 vCPU 64 GB RAM 100 GB + 10 TB Storage	UBUNTU	1		
5.	VM	Application Server	8 vCPU 32 GB RAM 100 GB + 10 TB Storage	UBUNTU	2		
6.	VM	GPU Server	<ul style="list-style-type: none"> <li>•For 20 Live Feeds:</li> <li>•8+ core CPU</li> <li>•32 GB RAM</li> <li>•1x Nvidia Tesla T4 GPU</li> <li>•1 TB SSD (RAID 1)</li> <li>•Count – 1 per 20 video streams</li> </ul>	UBUNTU	1		

7.	VM	GPU Server	<ul style="list-style-type: none"> <li>•For 40 Live Feeds:</li> <li>•12+ core CPU</li> <li>•64 GB RAM</li> <li>•2x Nvidia Tesla T4 GPU</li> <li>•1.5 TB SSD (RAID 1)</li> <li>•Count – 1 per 20 video streams</li> </ul>	UBUNTU	1			
8.	LOAD Balancer				1			
9.	One Time migration charges for existing application (Other projects under IHMCL/NHAI)				1			
10.	Transactional E-Mail service – 20,000 Emails				1			
11.	Transactional E-Mail Service – 25,000 SMS				1			
12.	Mobile Push Notification – 50,000 Notification				1			
13.	Cloud charges for Web application firewall (100 Mbps throughput)				1			
14.	<b>Total Cost (Ex. GST)</b>							

Form -2 – As per RFP

**P.S.**

**Important -**

- i. The bidders need to fill only the cells highlighted in the format above and the total cost as per 'Form – 1 Breakup of cost 'shall be taken into consideration for the evaluation of the financial proposal for this assignment.
- ii. If any financial bid is found to be non-compliant to format, it shall be summarily rejected.