

Letter No.: 168

Dated: 21.03.2020

CORRIGENDUM – 1

Name of Work: Request for Proposal for ICCC PROJECT (ICCC, Data Centre, OFC, ITMS etc.) Under SMART CITY MISSION (SCM) in Bhagalpur, Bihar.

NIT No.: BSCL/ICCC/2020/25

This is with reference to above tender which has been published in various newspapers and releases of the same notice on <https://www.eproc.bihar.gov.in> and <http://www.smartcitybhagalpur.org>.

The response to the prebid queries is uploaded on <https://www.eproc.bihar.gov.in> and <http://www.smartcitybhagalpur.org> with this corrigendum.

The other terms and conditions mentioned in RFP and NIT no. BSCL/ICCC/2019/16 remains the same.

It has to be further noted that the tender schedule is being revised as below:

Tender Schedule:

Sr. No.	Activity	Existing Schedule Date and Time	Revised Schedule Date and Time
1.	Online Sale / Download date and time of tender documents/RFP. https://www.eproc.bihar.gov.in	From 03/03/2020 to 24/03/2020 (up to 23:00 hrs.)	From 03/03/2020 to 15/04/2020 (up to 23:00 hrs.)
4.	Last date and time for online uploading the tender. https://www.eproc.bihar.gov.in	24/03/2020 up to 23:50 hrs.	15/04/2020 up to 23:50 hrs.
5.	Submission of hard copy of documents mentioned in RFP. Address: Chief Executive Officer, Bhagalpur Smart City Limited, Swami Vivekanand Path, Near Ghuran Peer Baba Chowk, Bhagalpur – 812001.	25/03/2020 up to 16:00 hrs.	16/04/2020 up to 16:00 hrs.
6.	Date and Time of Technical Bid Opening. https://www.eproc.bihar.gov.in	25/03/2020 at 16:30 hrs.	16/04/2020 at 16:30 hrs.
7.	Date and Time of Financial Bid Opening. https://www.eproc.bihar.gov.in	31/03/2020 at 14:30 hrs.	24/04/2020 at 14:30 hrs.

Note: NIT, RFP, Corrigendum, etc. will be also available on the company website <http://www.smartcitybhagalpur.org> for reference purposes only.


S. I. Kumar
21/03/2020

Chief Executive Officer,
Bhagalpur Smart City Limited.

BHAGALPUR SMART CITY LIMITED

Reply to the Prebid queries submitted / raised by Companies in Pre-Bid Meeting held on 06.03.2020 at Conference Hall, Nagar Nigam Bhagalpur Campus, Bhagalpur, Bihar.

Tender Name:		Request for Proposal for ICCC PROJECT (ICCC, Data Centre, OFC, ITMS etc.) Under SMART CITY MISSION (SCM) in Bhagalpur, Bihar.			
NIT No.:		BSCL/ICCC/2020/25			
Sl. No.	RFP Page No.	RFP Reference	Description in RFP	Query / Suggestion by the Company	Revised/New/Amendment in the Clause
1	47	Volume-II, Requirement Phase 4.3.	The infrastructure of existing traffic signal and other street ICT infrastructure may need to be dismantled and replaced with the new systems which are proposed and required under the scope of the project. The infrastructure such as poles, cantilevers, cabling, aspects etc. should be reused to derive economies for the project with prior approval of BSCL. The dismantled infrastructure shall be delivered at the BSCL designated location without damage at no extra cost.	In case, existing pole foundation needs to be strengthened, BSCL will pay cost of new civil foundation for poles. Please confirm.	BSCL will not pay any extra cost.
2	216	II; 5.4.3 Multi Utility GIS Based Property Survey, Base Map updation and GIS Integration with Property Tax	During the Property Survey the consultant shall collect all the basic information required for property taxation as well as other relevant details like use of various municipal services i.e., water connection, sewer connection etc.	It is understood that Authentication of the surveyed data is the responsibility of BSCL. Please confirm.	Authentication of the surveyed data is the responsibility of MSI. Authority will approve the authentication of the data.
3	22	Volume III 2. Payments	12.1. Authority shall make payments to MSI at the times and in the manner set out in the Payment schedule as specified Payment Milestones in RFP Volume II subject to the penalties as mentioned under Clause 43 of Section C- Service Levels of Volume 3. Authority shall make all efforts to make payments to MSI within 60 days of receipt of invoice(s) and all necessary supporting documents	We request you to amend the clause as below, 12.1. Authority shall make payments to MSI at the times and in the manner set out in the Payment schedule as specified Payment Milestones in RFP Volume II subject to the penalties as mentioned under Clause 43 of Section C- Service Levels of Volume 3. Authority shall make all efforts to make payments to MSI within 30 60 days of receipt of invoice(s) and all necessary supporting documents. Kindly confirm.	Authority shall make all efforts to make payments to MSI within 45 days or before of receipt of invoice(s) and all necessary supporting documents.
4	80	Volume 1 8.1 Total price summary	ANNEXURE 4 – FORMATS FOR SUBMISSION OF THE COMMERCIAL BID	We understand that Commercial evaluation for QCBS shall be inclusive of GST. Please confirm.	Yes
5	23 of 3	Volume II, 9.1 Payment Terms	Capex (80%) 1. Requirement study and on delivery SRS.HDD (T0 + 3 months = T1) = 20% of Capex value 2. Phase I : Go Live (T1 + 5 months = T2) = 20% of Capex value 3. Phase II : Go Live (T2+ 2 Months = T3) = 20% of Capex value 4. Phase III : Go Live (T3 + 2 months = T4) = 20% of Capex Value 5. Phase IV : Integration & Project Final Go- Live (T4 + 3 months = TF) = Payment: 20% of capex value plus any balance remaining for the previous phases restricted to complete integration Opex (20%) 8. Project Operations & Maintenance phase for a period of 60 months from the date of Final Go Live (TF + 60 Months) = OPEX will be paid in twenty (20) equal quarterly instalments spread across 5 years Post Final Go-Live Note 2: If successful bidder requests for Mobilization advance, following conditions shall be applicable: a. Mobilization advance can be maximum of 10% of CAPEX value b. Mobilization advance shall be interest bearing @ 10 % and released only after receipt of Bank Guarantee of 110% of the requested amount. c. Mobilization advance shall be adjusted proportionately among all Phases Payment Release.	Please Modify payments as below:- Capex (80%) 1. Requirement study and on delivery SRS.HDD (T0 + 3 months = T1) = 30% of Capex value 2. Phase I : Go Live (T1 + 5 months = T2) = 30% of Capex value 3. Phase II : Go Live (T2+ 2 Months = T3) = 20% of Capex value 4. Phase III : Go Live (T3 + 2 months = T4) = 10% of Capex Value 5. Phase IV : Integration & Project Final Go- Live (T4 + 3 months = TF) = Payment: 10% of capex value plus any balance remaining for the previous phases restricted to complete integration Opex (20%) 8. Project Operations & Maintenance phase for a period of 60 months from the date of Final Go Live (T1 + 60 Months) = OPEX will be paid in twenty (20) equal quarterly instalments spread across 5 years Post Final Go-Live Note 2: If successful bidder requests for Mobilization advance, following conditions shall be applicable: a. Mobilization advance can be maximum of 10% of CAPEX value b. An interest free Mobilization advance shall be interest bearing @ 40 % and released only after receipt of Bank Guarantee of 110% of the requested amount. c. Mobilization advance shall be adjusted in phase V payment.	Please Modify payments as below:- Capex (80%) 1. Requirement study and on delivery SRS.HDD (T0 + 3 months = T1) = 20% of Capex value 2. Phase I : Go Live (T1 + 5 months = T2) = 30% of Capex value 3. Phase II : Go Live (T2+ 2 Months = T3) = 20% of Capex value 4. Phase III : Go Live (T3 + 2 months = T4) = 20% of Capex Value 5. Phase IV : Integration & Project Final Go- Live (T4 + 3 months = TF) = Payment: 10% of capex value plus any balance remaining for the previous phases restricted to complete integration Opex (20%) 8. Project Operations & Maintenance phase for a period of 60 months from the date of Final Go Live (TF + 60 Months) = OPEX will be paid in twenty (20) equal quarterly instalments spread across 5 years Post Final Go-Live
6	72	RFP Volume II, 5.1. Integrated Command & Control Centre (ICCC)	5.1.2. Functional & Technical Requirements for ICCC Platform 12. ICCC Operation, iii. The solution should provide operators and managers with a management dashboard that provides a real time status and is automatically updated when certain actions, incidents and resources have been assigned, pending, acknowledged, dispatched, implemented, and completed with clear identification code.	Please provide total number of ICCC operators ?	TOTAL 90 OPERATORS: (1st Shift - 30 2nd Shift - 30 Night Shift - 20 Relievers - 10)
7	31	Volume 1, Section 2.28	c) Proposed OEM for any technology should not have filed for bankruptcy and should have positive net worth for at least last 3 consecutive financial years. OEM has to submit the CA Certificate/Audited financial report.	Request BSCL to remove this clause as positive net worth for all proposed OEM is challenging.	c) Proposed OEM for any technology should not have filed for bankruptcy. Self Declaration should be submitted by OEMs.
8	Page 421 of 504	Bhagalpur Smart City Volume -II : Scope of Work Annexure 1: Bill of Quantity	26.ICCC IRIS Recognition Camera	We are not able to find any technical specification in tendere, thus requesting you please help to understand what is IR IS Recognition Camera. Also help to provide technical specification for IR IS Recognition Camera.	RFP Volume - II under Bill of Materials, Page no. 421 "IR IS Recognition Camera" is treated as Iris Recognition Camera and Iris Recognition based Administration Software
9	188 & 189	5.2.3.4. Functional & Technical Requirements for Network Management System	Solution should provide fault & performance management and monitor IP/SNMP enabled devices like Routers, Switches. Proposed Network Management shall also help monitor key KPI metrics like availability, in order to measure SLA's. Bidder is supposed to proposed IP based NMS only. NMS features for RF & Wireless are not required	As mentioned, RF & Wireless NMS is not required. Yet specifications of NMS in pointer number 1,2,4,5,6,7,8, 10,11,15,17,18,19,23,24,25 asks for features related to RF of Wireless NMS. Request you to remove all the aforementioned pointers.	Solution should provide fault & performance management and monitor IP/SNMP enabled devices like Routers, Switches. Proposed Network Management shall also help monitor key KPI metrics like availability, in order to measure SLA's. Bidder is supposed to proposed IP based NMS only. The NMS should be compatible with wired, wireless and RF link.

Sl. No.	RFP Page No.	RFP Reference	Description in RFP	Query / Suggestion by the Company	Revised/New/Amendment in the Clause
10	29	Volume-3 -22	22. Force Majeure	Please include vandalism and terrorism as Force Majeure.	Terrorism is added in Force Majeure.
11	38	Volume-1	3.6 PQ/ S No 6- Company Standings	As on date of submission of the proposal, the Bidder (all members of the consortium as applicable including their parent/subsidiary/associate companies) shall not be blacklisted / debar by any State / Central Government Department or Central /State PSUs/Multilateral Funding Agency.	As on date of submission of the proposal, the sole bidder / lead bidder (all members of the consortium) shall not be blacklisted / debar by any State / Central Government Department or Central /State PSUs/Multilateral Funding Agency.
12	5.2.1.2 Functional & Technical Requirements for Internet Router	8.2	L2VPN	L2VPN/ Equivalent	L2VPN or Equivalent to L2VPN
13	5.2.1.3 Functional & Technical Requirements for Data Centre Firewall	8	The Firewall should have option for URL Filtering 90+ categories and Cloud sandboxing for malware analysis if required with License upgrade.	The Firewall should have option for URL Filtering of 280 million in more than 80 categories and Cloud sandboxing for malware analysis if required with License upgrade.	The Firewall should have option for URL Filtering 80+ categories and Cloud sandboxing for malware analysis if required with License upgrade.
14	5.2.1.13 Functional & Technical Requirements for Blade Chassis	Chassis management capabilities	1. Solution should support redundant physical management appliances within/ outside the enclosure with failover and high-availability	Solution should support redundant management appliance / solution within/ outside the enclosure with failover and high-availability.	Solution should support redundant management appliance and solution within/ outside the enclosure with failover and high-availability.
15		SAN Switch	The switch to be configured with minimum of 48 ports 16 Gbps FC configuration backward compatible to 4/8. This is minimum port requirement, however additional SAN Switch port if required may be procured to complete the solution.	The switch to be configured with minimum of 48 ports 32 Gbps FC configuration backward compatible to 4/8/16. This is minimum port requirement, however additional SAN Switch port if required may be procured to complete the solution.	The switch to be configured with minimum of 48 ports more than 16 Gbps FC configuration backward compatible to 4/8/16. This is minimum port requirement, however additional SAN Switch port if required may be procured to complete the solution.
16	5.2.1.15 Functional & Technical Requirements for Storage	Capacity	Offered SAN shall be configured for minimum 200 TB or more usable Storage on converged solution in RAID 5 & 3.8 PB usable video storage with 7.2K RPM NL-SAS/10K RPM SAS/SSD hot swappable HDD	Offered SAN shall be configured for minimum 200 TB or more usable Storage using SSD /SAS 10K Drives in RAID 5 & 3.8 PB usable video storage with 7.2K RPM NL-SAS/10K RPM SAS/SSD hot swappable HDD.	Offered SAN shall be configured for minimum 200 TB or more usable Storage using SSD /SAS 10K Drives in RAID 5 & 3.8 PB usable video storage with 7.2K RPM NL-SAS/10K RPM SAS/SSD hot swappable HDD.
17	5.2.1.15 Functional & Technical Requirements for Storage	RAID levels	The storage should support 0, 1, 5, 6 and 10 RAID levels.Offered Storage Array shall support distributed Global hot Spare for offered Disk drives and shall be configure as per industry practice.	The storage should support 0,1, 5, 6 and 10 RAID levels or better levels . Offered Storage Array shall support hot Spare for offered Disk drives and shall be configure as per industry practice.	The storage should support 0,1, 5, 6, 10 or better RAID levels. Offered Storage Array shall support hot Spare for offered Disk drives and shall be configure as per industry practice.
18	305	Volume II: 5.8	A typical network Architecture Figure 5: Design of Distribution and Access Network	There is a misprint/ Duplicay of network Diagram on Page 305 , Figure 5 , Since a better network architecture is well defined on Page No. 20 of the RFP. Request you to delet the Page 305 Fig 5 . To avoid any further Confusion .	The network Diagram on Page 304 , Figure 5 is only elaborate the network diagram for reference purpose. The diagram on page no. 20 is the logical architecture of smart city wide network.
19	127	VOL. II OF III,5.2.1.10, Functional & Technical Requirements for DC Core Switch,SI.no-2.3	Should have 48 nos. of 1000 Base-T Ports Copper (RJ-45)	Requesting the clarity " Is it additional requirement or incorporated with SI.2.2 statement, to avoid over sizing.	This is not consider as SI. 2.2. Its is additional requirement.
20	142	VOL. II OF III,5.2.1.17, Functional & Technical Requirements for Aggregation Switches	The switch should have at least 24 fixed 1G/10G SFP+ ports from day 1 and scalable up to 48nos 1G /10G SFP+ ports. Switch shall have mini 4 x QSFP+ ports	Requesting the clarity - 4xQSFP+ ports is required from day-1 or Switch should support in future.	From Day One.
21	Page 205 of 504	Volume –II : Scope of Work 5.3.2.1. Functional & Technical Requirements for DR Management	1. The proposed solution must offer a workflow based management& monitoring and reporting capability for the real time monitoring of a DR solution parameters like RPO (at DB level), RTO, replication status and should provide alerts(including SMS and e-mail alerts) on any deviations. The proposed solution should be able to conduct DR Drills from a centralized location	Does tender authority have any existing SMS and Email subscription? If Yes then can we use the same in this system. If we don't have any existing subscription then can tender authority will do recharge as per need? Volume of the SMS will be very high and it's not feasible for a vendor to assume volume. We request tender authority to provide us SMS and Email subscriptions. Integration of the same will be done by selected vendor.	SMS, e-mail and Payment gateway will be provided by the MSI.
22	Page 49 of 504	Volume –II : Scope of Work 4.9. Handholding and Training		We are assuming, tender authority will provide training infrastructure like training room, projector, table, chairs etc. Please confirm Approx number of users to train?	Yes

Sl. No.	RFP Page No.	RFP Reference	Description in RFP	Query / Suggestion by the Company	Revised/New/Amendment in the Clause
23		Volume –II : Scope of Work Page 235 of 504 5.6.4 Document Digitization	Document Digitization	Does the bidder have also to do digitization of data for the solution? If so, please mention the number of documents to be digitized? Scanning documents will be out of scope. Please confirm	Scanning and Digitization is the scope under MSI.
24	391	Volume 2,7.1.3.1	SL No.(21)Edge Video Content Analytics :-Camera should have in-built Edge Based Analytics: Like Abandoned Object, Intrusion Detection, Tampering, Line Crossing, Object Removal and many more similar analytics.	Request You to change clause /amendment : Edge based Video Content Analytics :-Camera should have in-built Edge Based Analytics: Like - Abandoned Object, Intrusion Detection, Tampering, Line Crossing, Object Removal and many more similar analytics to Server based video analytics like Abandoned Object, Intrusion Detection, Tampering, Line Crossing, Object Removal and many more similar analytics . because in Box camera longitude & latitude is not fixed so it does not work properly . So it is advised to used edge based analytics	SL No.(21)Edge Video Content Analytics :-Camera should have in-built / Server based video analytics or Edge Based Analytics: Like - Abandoned Object, Intrusion Detection, Tampering, Line Crossing, Object Removal and many more similar analytics.
25	394	Volume 2,7.1.3.3	SL No.(19)Edge Video Content Analytics :-Camera should have in-built Edge Based Analytics: Like Abandoned Object, Intrusion Detection, Tampering, Line Crossing, Object Removal and many more similar analytics.	Request You to change clause /amendment : Edge based Video Content Analytics :-Camera should have in-built Edge Based Analytics: Like - Abandoned Object, Intrusion Detection, Tampering, Line Crossing, Object Removal and many more similar analytics to Server based video analytics like Abandoned Object, Intrusion Detection, Tampering, Line Crossing, Object Removal and many more similar analytics . Because in PTZ edge based analytics does not support due to continuous rotation & changes in Field of view.	SL No.(21)Edge Video Content Analytics :-Camera should have in-built / Server based video analytics or Edge Based Analytics: Like - Abandoned Object, Intrusion Detection, Tampering, Line Crossing, Object Removal and many more similar analytics.
26	88	5.1.4. Functional & Technical Requirements for Video Display Wall	Screen to Screen Gap : Less than 0.2mm Gap between 2 screens	For large video wall setup gap between the screen is 0.6mm around Request you to amend the screen to screen gap : Less than 0.5mm Gap between 2 screens	Screen to Screen Gap : Less than 0.3mm Gap between 2 screens
27	133	Request for Proposal for ICCC PROJECT (ICCC, Data Centre, OFC, ITMS etc.) Request for Proposal for ICCC PROJECT (ICCC, Data Centre, OFC, ITMS etc.) Volume II, 5.2.1.13. Functional & Technical Requirements for Blade Chassis	Blade Chassis : 2. Should support full height and half height blades in the same enclosure, occupying a min of 10U rack height	Blade Chassis : 2. Should support full height and half height blades in the same enclosure, occupying a min of 7U rack height	Blade Chassis : 2. Should support full height and half height blades in the same enclosure, occupying of 10U rack height or less height.
28	90	Volume 2/section 5.1.6	Monitor : Three Monitors of 24" Curved TFT LED, with Minimum 1920 x1080 resolution, Minimum input of 1xDP, 1x HDMI, Energy star 5.0/BEE star certified	Three Monitors of 24" TFT LED, with Minimum 1920 x1080 resolution, Minimum input of 1xDP, 1x HDMI, Energy star 5.0/BEE star certified	Monitor : Three Monitors of 24" TFT LED, with Minimum 1920 x1080 resolution, Minimum input of 1xDP, 1x HDMI, Energy star 5.0/BEE star certified
29	136	Volume 2 / section :5.2.1.15/ 1. Controllers	Dual active controller with automated I/O path failover. Controllers must be offered which shall be true active-active so that a single logical unit can be shared across all offered controllers in symmetrical fashion, while supporting all the major functionalities like Thin Provisioning, Data Tiering etc.	Dual active controller with automated I/O path failover. Controllers must be offered which shall be true active-active so that a single logical unit can be shared across all offered controllers in symmetrical / asymmetrical fashion, while supporting all the major functionalities like Thin Provisioning, Data Tiering etc.	Dual active controller with automated I/O path failover. Controllers must be offered which shall be true active-active so that a single logical unit can be shared across all offered controllers in symmetrical / asymmetrical fashion, while supporting all the major functionalities like Thin Provisioning, Data Tiering etc.
30	138	5.2.1.16. Functional & Technical Requirements for Back up Application Point No. 5	The proposed email archival solution should support multi tenancy. It should have encryption and Single Instance Storage capabilities. Email archiver should be available as soft appliance and should be capable of getting deployed at cloud such as AWS.	The proposed Backup solution should support multi tenancy. It should have encryption and Deduplication capabilities. Backup Software should be available as soft appliance and should be capable of getting deployed at cloud such as AWS.	The proposed Backup solution should support multi tenancy. It should have encryption and Deduplication capabilities. Backup Software should be available as soft appliance and should be capable of getting deployed at cloud such as AWS.
31	138	5.2.1.16. Functional & Technical Requirements for Back up Application Point No. 6	Proposed email archival solution should support Microsoft Exchange, MS Office 365, IBM Lotus, Google mail and others. Email archival solution should provide access to all message ever sent or received through a web interface or Outlook plugin.	Should be removed from Backup Solution Specification.	Clause removed
32	138	5.2.1.16. Functional & Technical Requirements for Back up Application Point No. 9	The software should be able to create Standby server on virtualized systems (VMWare/Hyper-V Server/EC2) and should monitor the heartbeat of the source to enable recovery during production server failure	The software should be able to create Standby server on virtualized systems (VMWare/Hyper-V Server/EC2).	The software should be able to create Standby server on virtualized systems (VMWare/Hyper-V Server/EC2)
33	139	5.2.1.16. Functional & Technical Requirements for Back up Application Point No. 18	The proposed solution should provide push button switchover/failover capability.	The proposed solution should provide switchover/failover capability.	The proposed solution should provide push button / one key / single button or any other better mechanism for switchover/failover capability.

Sl. No.	RFP Page No.	RFP Reference	Description in RFP	Query / Suggestion by the Company	Revised/New/Amendment in the Clause
34	139	5.2.1.16. Functional & Technical Requirements for Back up Application Point No. 19	The replication software should provide capability of full system replication and migration of Windows-based servers quick and easy and should provide assured recovery mechanism for non-disruptive DR testing.	The Backup software should provide capability of full system backup of Windows-based servers in quick and easy way and should provide assured recovery mechanism for non-disruptive DR testing.	The backup / replication software should provide capability of full system backup / replication of Windows-based servers quick and easy and should provide assured recovery mechanism for non-disruptive DR testing.
35	Page 182	Volun 2/ Section 5.2.2.9 SIEM	Packet inspection solution and SIEM must integrate with each other, however they should be from different OEM. Packet inspection is preferred from specialised product vendor in this field and not just an integrated solution of SIEM vendor	Packet inspection solution and SIEM must integrate with each other, however they should be from same OEM. Packet inspection is preferred from specialised product vendor in this field and not just an integrated solution of SIEM vendor	Packet inspection solution and SIEM must integrate with each other, however they should be from different / same OEM. Packet inspection is preferred from specialised product vendor in this field and not just an integrated solution of SIEM vendor
36	110	Volume II 5.2.1.2 /Internet Router/1.7	Shall have to support up to 15 Mpps packet forwarding rate	Shall have to support up to 40 Mpps packet forwarding rate	Shall have to support more than 15 Mpps packet forwarding rate.
37	129	Volume-II,5.2.1.10 Functional & Technical Requirements for DC Core Switch,Minimum Technical reurement, 1.7	The Switch should have 9 MB packet buffer size	Every OEM will design solution as per their OWN architecture.	The Switch should have 8 MB or more packet buffer size.
38	129	Volume-II,5.2.1.10 Functional & Technical Requirements for DC Core Switch,Layer 2 switching, 4,5	The Switch should support IEEE 802.3ad Link Aggregation of up to 128 groups of 32 ports and support for LACP, LACP Local Forwarding First, and LACP Short-time provides a fast, resilient environment that is ideal for the data center	This is quite strange requirement nobody will use 128 Groups for LACP and if ever use then solution will be OEM specific.Already 40/100 Gbps of Switch connectivity is asked.Kindly dilute this feature.	The Switch should support IEEE 802.3ad Link Aggregation of 8 or more groups of 8 or more ports and support for LACP/ LACP Local Forwarding First/ LACP Short-time provides a fast, resilient environment that is ideal for the data center
39	130	Volume-II,5.2.1.10 Functional & Technical Requirements for DC Core Switch,Layer 3 routing from day-1(any additional licenses required shall be included) ,6,4	The Switch should support static routes, RIP and RIPv2, OSPF, BGP, and IS-IS	Please note that Based on functional requirement BGP/ISIS is asked at most of the parameters.	The Switch should support static routes, RIP and RIPv2, OSPF, BGP/IS-IS.
40	130	Volume-II,5.2.1.10 Functional & Technical Requirements for DC Core Switch,Layer 3 routing from day-1(any additional licenses required shall be included),6.5	Intermediate system to intermediate system (IS-IS)	Please note that Based on functional requirement BGP/ISIS is asked at most of the parameters.	BGP/IS-IS
41	130	Volume-II,5.2.1.10 Functional & Technical Requirements for DC Core Switch,Layer 3 routing from day-1(any additional licenses required shall be included),6.8	The Switch should allow IPv6 packets to traverse IPv4-only networks by encapsulating the IPv6 packet into a standard IPv4 packet; supports manually configured, 6to4, and Intra-Site Automatic Tunnel Addressing Protocol (ISATAP) tunnels; is an important element for the transition from IPv4 to IPv6	This ISATP is specific to single OEM.Kindly dilute this standard functionality	The Switch should allow IPv6 packets to traverse IPv4-only networks by encapsulating the IPv6 packet into a standard IPv4 packet.
42	132	Volume-II,5.2.1.10 Functional & Technical Requirements for DC Core Switch,Software Defined Networking (SDN) Capability,11.2	The Switch should Allow the separation of data (packet forwarding) and control (routing decision) paths, to be controlled by an external SDN Controller, utilizing Open flow protocol	Most of the vendors do automation within switches.So kindly amend this as internal/external	The Switch should Allow the separation of data (packet forwarding) and control (routing decision) paths, to be controlled by an internal/external SDN Controller, utilizing Open flow protocol
43	142	Volume-II,5.2.1.17. Functional & Technical Requirements for Aggregation Switches,Minimum Requirements,1.7	The Switch should have 12 MB packet buffer size	Every OEM will design solution as per their OWN architecture.	The Switch should have 8 MB or more packet buffer size.

Sl. No.	RFP Page No.	RFP Reference	Description in RFP	Query / Suggestion by the Company	Revised/New/Amendment in the Clause
44	143	Volume-II,5.2.1.17. Functional & Technical Requirements for Aggregation Switches,Minimum Requirements,3.17	The Switch should enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP, IS-IS, VRRP and switch virtualisation technology	Kindly ammend BGP/IS-IS.	The Switch should enables link connectivity monitoring and reduces network convergence time for RIP, OSPF, BGP/ IS-IS, VRRP and switch virtualisation technology
45	143	Volume-II,5.2.1.17. Functional & Technical Requirements for Aggregation Switches,Minimum Requirements,3.19	The Switch should support Graceful restart for OSPF, BGP, and IS-IS	Kindly ammend BGP/IS-IS.	The Switch should support Graceful restart for OSPF, BGP/ IS-IS
46	143	Volume-II,5.2.1.17. Functional & Technical Requirements for Aggregation Switches.,Layer 3 routing from day-1(any additional licenses required shall be included),6.4	The Switch should support static routes, RIP and RIPv2, OSPF, BGP, and IS-IS	Kindly ammend BGP/IS-IS.	The Switch should support static routes, RIP and RIPv2, OSPF, BGP/ IS-IS
47	143	Volume-II,5.2.1.17. Functional & Technical Requirements for Aggregation Switches.,Layer 3 routing from day-1(any additional licenses required shall be included),6.5	Intermediate system to intermediate system (IS-IS)	Kindly ammend BGP/IS-IS.	BGP/IS-IS.
48	143	Volume-II,5.2.1.17. Functional & Technical Requirements for Aggregation Switches.Layer 3 routing from day-1(any additional licenses required shall be included),6.8	The Switch should allows IPv6 packets to traverse IPv4-only networks by encapsulating the IPv6 packet into a standard IPv4 packet; supports manually configured, 6to4, and Intra-Site Automatic Tunnel Addressing Protocol (ISATAP) tunnels; is an important element for the transition from IPv4 to IPv6	This ISATP is specific to single OEM.Kindly dilute this standard functionality	The Switch should allow IPv6 packets to traverse IPv4-only networks by encapsulating the IPv6 packet into a standard IPv4 packet.
49	144	Volume-II,5.2.1.17. Functional & Technical Requirements for Aggregation Switches,Minimum Requirements,6.11	The Switch should Multicast Routing PIM-DM/PIM-SM, PIM-SSM for IPv4 and IPv6	Please note that configuration can't run multiple PIM protocols in one go.it will make solution complicated and more complex to troubleshoot	The Switch should Multicast Routing (PIM-DM)/(PIM-SM)/(PIM-SSM) for IPv4 and IPv6
50	146	Volume-II,5.2.1.19. Functional & Technical Requirements for PoE Ruggedized Switches,Minimum Specifications,9	The switch should have internal/external (DIN rail mountable) AC power supply.	Requested Switch is not industril grade switch.Please amend as it should be AC/DC supported along with DIN rail or Rack mountable.	The switch should have internal/external (DIN rail mountable / RACK mountable or equivalent ways to support the solution) AC/DC power supply as per requirement.
51	145	Volume-II,5.2.1.18. Functional & Technical Requirements for 24 Port Switch,Minimum Technical Requirements,1.5	Shall have minimum 2 GB or more of Memory and 512MB or more of Flash Memory	Every OEM will design solution as per their OWN architecture.	Shall have minimum 1 GB or more of Memory and 512MB or more of Flash Memory
52	175	5.2.2.18. IIM Specification	13. The solution shall be able to maintain a record of the rack capacity and utilization including:	The solution shall be able to maintain a record of the rack capacity and utilization including POE Switch Ports Utilization and Status	The solution shall be able to maintain a record of the rack capacity and utilization including POE Switch Ports Utilization and Status

Sl. No.	RFP Page No.	RFP Reference	Description in RFP	Query / Suggestion by the Company	Revised/New/Amendment in the Clause
53	175		15. The solution should have the following visual indications: Rack indicator – the solution should support rack indicator (beacon) in order to guide the work order executer to the specific work order cabinets/racks.	The solution should have the following visual indications: Rack indicator – the solution should support rack indicator / LCD display to show end to end circuit connections and guide the work order executer to the specific work order cabinets/racks.	The solution should have the following visual indications: Rack indicator – the solution should support rack indicator / LCD display to show end to end circuit connections and guide the work order executer to the specific work order cabinets/racks.
54	176		20. The solution should be ready to integrate to IP power strips to get information of the power being consumed in the racks in real time and use this information for provisioning of servers inside any communication room.	Request to delete this features, since it is not a AIM ISO/IEC 18598 functionality, hence could be OEM specific feature.	The solution should be fully comply with ANSI/TIA 606-B (including B-1) and ISO/IEC 18598 standards.
55	177		41. The solution should be efficient and should not require use of multiple media for providing or verifying of the same information or carrying out a work order. Any work order execution should be achieved by means of lights without requiring any other interface. This is essential to ensure easy usage of the system.	The solution should be efficient and should not require use of multiple media for providing or verifying of the same information or carrying out a work order. Any work order execution should be achieved by help of display unit at rack level and panel port LED's with confirmation of completion / progress at every step. This is essential to ensure easy error-free usage of the system.	Any work order execution should be achieved by help of display/indicator unit at rack level and panel port LED's with confirmation of completion / progress at every step. This is essential to ensure easy error-free usage of the system.
56	178	Copper Patch Cord	52. Copper Patch Cord, 54. Copper Cross Connect Patch Cord 53. Copper Interconnect Patch Cord	Copper Patch Cord: CAT6A STP/UTP Patch Cords should support standard connections, Interconnect topologies and Cross Connect topologies in IIM detections.	52. Copper Patch Cord, 53. Copper Interconnect Patch Cord 54. Copper Cross Connect Patch Cord or Copper Patch Cord: CAT6A STP/UTP Patch Cords should support standard connections, Interconnect topologies and Cross Connect topologies.
57		Copper Patch Cord	52.2 Based high-end CAT6A STP cord, the cord supports two additional stranded wires to produce an eight-wire cord. The cord is terminated with patented RJ-45 plugs that include two conductive, external contacts.	52.2 High-performance CAT6A STP/UTP solid cordage patch cords, the cord supports IIM detection for all design architectures. The cord is terminated with patented RJ-45 plugs.	52.2 High-performance CAT6A STP/UTP solid cordage patch cords, the cord supports IIM detection for all design architectures. The cord is terminated with patented RJ-45 plugs.
58	179	Intelligent Fiber Trays (Intelligent Tray without Cassette)	56.8. The Intelligent LC-LC Fiber Tray supports two Scanning cards and two RJ-45 ports with keystones for connections to the Scanning Device /Analyzer ports.	56.8. The Intelligent LC-LC Fiber Tray supports two Scanning cards and two RJ-45 ports with keystones or a Simple panel bus cord for connections to the Scanning Device /Analyzer ports.	56.8. The Intelligent LC-LC Fiber Tray supports two Scanning cards and two RJ-45 ports with keystones or a Simple panel bus cord for connections to the Scanning Device /Analyzer ports.
59	179	Intelligent Fiber LC Cassettes	57.3 Should have one pair of LEDs for each port on the front panel (that is, one LED for each fiber).	57.3 Should have one LED for each port on the front panel.	57.3 Should have one LED for each port on the front panel.
60	179	Intelligent Fiber LC MPO Cassettes	58.3 Should have One pair of LEDs for each port on the front panel (that is, one LED for each fiber).	58.3 Should have one LED for each port on the front panel.	58.3 Should have one LED for each port on the front panel.
61	180	Fiber Cords	59.1 All Intelligent Patch Cords should support both interconnect and cross-connect topologies.	59.1 All Fiber Patch Cords should support both interconnect and cross-connect topologies and standard as well as intelligent connections.	59.1 All Fiber Patch Cords should support both interconnect and cross-connect topologies and intelligent connections.
62	180	Fiber Cords	59.4 Interconnect topology should include one intelligent ID device at the switch side. The cord includes fiber plug interface with two external pins on both ends	59.4 Interconnect topology should include one intelligent ID device at the switch side.	59.4 Interconnect topology should include one intelligent ID device at the switch side.
63	180	Intelligent Scanning Card	63. Intelligent Scanning Card	Request to delete this item from mandatory supply items.	Clause removed
64	180, 181	Scanning Hardware	68.5 Should give LED signalling of make/break status	68.5 Should give LED and interactive screen signalling of make/break status	68.5 Should give LED (desirable interactive screen) signalling of make/break status
65	181	Scanning Hardware	68.7 Should Support Environmental Controller	Request to delete this feature	Clause removed
66	181	Scanning Hardware	68.9 Each scanning hardware should supports up to 24 Cards, with each Card capable of supporting 24 ports, resulting in a single device capable of supporting up to 576 ports.	68.9 Each scanning hardware should supports up to 42 Cards / panels, with each Card / panel capable of supporting 24 ports, resulting in a single device capable of supporting up to 1008 ports.	68.9 Each scanning hardware should supports up to 42 Cards / panels, with each Card / panel capable of supporting 24 ports, resulting in a single device capable of supporting up to 1008 ports.
67	181	Scanning Hardware	68.14 The Scanning hardware should be powered through the mains supply via a power socket on the rear, and supplies power to the Cards over the RJ-45 connector.	68.14 The Scanning hardware should be powered through the mains supply via a power socket on the rear, and supplies power to the Cards / panels over the RJ-45 connector / Common Busbar.	68.14 The Scanning hardware should be powered through the mains supply via a power socket on the rear, and supplies power to the Cards / panels over the RJ-45 connector / Common Busbar.
68	181	Scanning Hardware	68.15 Scanning Hardware /Scanner / Analyzer: Power Input Voltage: 100–240 VAC, 47–63 Hz and Input Current: 1–2 A	68.15 Scanning Hardware /Scanner / Analyzer: Dual Power Input Ports with Voltage: 100–240 VAC, 47–63 Hz and Input Current: 1–2 A	68.15 Scanning Hardware /Scanner / Analyzer: Dual Power Input Ports with Voltage: 100–240 VAC, 47–63 Hz and Input Current: 1–2 A
69	343	OSP Fiber Optic Cable	The optical fiber proposed is an all Dielectric Gel-Free lightweight Single Mode	The optical fiber proposed is an all Dielectric / CST armored Gel-Free lightweight Single Mode	The optical fiber proposed is an all Dielectric / CST armored Gel-Free lightweight Single Mode
70	344	OSP Fiber Optic Cable	Fiber Count in Tube: 48F - 4 Fiber/tube	Fiber Count in Tube: 48F - 4/8 Fiber/tube or more as per design requirement	Fiber Count in Tube: 48F - 4/8 Fiber/tube or more as per design requirement
71	344	OSP Fiber Optic Cable	Crush load(N/10cm): 1000	Crush load(N/10cm): 1000 / 3000 or higher	Crush load(N/10cm): 1000 / 3000 or higher
72	345	OSP Fiber Optic Cable	Attenuation: 1285-1330nm: < / = 0.34 dB/km; 1550nm: < / =0.20 dB/km	Attenuation: 1285-1330nm: < / = 0.34 dB/km; 1380-1386nm: < / =0.31dB/Km 1550nm: < / =0.20 dB/km	Attenuation: 1285-1330nm: < / = 0.34 dB/km; 1380-1386nm: < / =0.31dB/Km 1550nm: < / =0.20 dB/km;

Sl. No.	RFP Page No.	RFP Reference	Description in RFP	Query / Suggestion by the Company	Revised/New/Amendment in the Clause
73	43	Vol II 4.1. Expectations from MSI/SI Sr. No. (i)	SI has to provide Enterprise version for all Open source software. No community version will be accepted.	We appreciate the Smart city objective of deploying secure infrastructure. Many vulnerabilities recently been found in both open source as well in non-Open source software. Hence we request this point be amended to the following: "All systems supplied by the SI (open source or otherwise) should adhere to the cyber security requirements laid out by model framework of cyber security requirements set for Smart City circular no. K-15016/61/2016-SC-1, Government of India, and Ministry of Urban Development (copy attached) and shall be audited as per corresponding guidelines"	MSI has to provide Enterprise version for all Open source software. No community version will be accepted. The solution should adhere to the cyber security requirements laid out by model framework of cyber security requirements set for Smart City circular no. K-15016/61/2016-SC-1, Government of India, and Ministry of Urban Development (copy attached) and shall be audited as per corresponding guidelines
74	355	Vol-II 6.1.1.4 Detailed Specifications for Vehicle Detector Sensor	The vehicle detector should Forward firing technology multilane radar/video based technology with 4D object tracking with HD resolution. The sensor should be capable of working in fog, rain and without any requirement of cleaning and can provide precise information on counting , classification queue length for at least 175 meters for all stopped and moving vehicles.	Although Radar/video based technology is asked for Vehicle Detector Sensor, yet the specifications mentioned are only of Radar based Vehicle Detector. Along with the given specs, we request you to kindly add specifications of Video based Vehicle Detector as well in this section as following: 1) Video based Vehicle Detector camera should have minimum resolution of 4 MP or above 2) Camera should support dual video streaming with MJPEG/H.264 compression. 3) System should support upto 24 vehicle presence zones and 4 data zones for each camera. 4) Detector zones should be configurable as upstream/downstream/stop-line or exit as per site requirement. 5) Detector should detect vehicle count with an accuracy of 90% during Day & Night and all weather conditions like rain, fog etc. 6) System should be able to classify vehicles into three different categories like LMV, 2-Wheeler & HMV with an accuracy of 80% or above for all the vehicles.	MSI can propose radar/video based technology. For radar based technology follow the specifications mentioned in RFP. For video based technology follow the below specifications: 1) Video based Vehicle Detector camera should have HD resolution 2) Camera should support dual video streaming with MJPEG/H.264/H.265 compression. 3) System should support upto 24 vehicle presence zones and 4 data zones for each camera. 4) Detector zones should be configurable as upstream/downstream/stop-line or exit as per site requirement. 5) Detector should detect vehicle count with an accuracy of 90% during Day & Night and all weather conditions like rain, fog etc. 6) System should be able to classify vehicles into three different categories like LMV, 2-Wheeler & HMV with an accuracy of 80% or above for all the vehicles.
75	358	Vol-II 6.2.2 Red Light Violation Detection (RLVD) System Sr. No.a	System should have the facility to provide the live feed of the camera at the central command centre. System should generate Alarms at control room software if any signal is found not turning RED within a specific duration of time. The following Traffic violations to be automatically detected by the system by using appropriate technology. The RLVD software must be innate of ITMS and VMS software for easy to use. The Evidence camera should also be used for evidence snap generation minimum for Red Light Violation, Stop Line Violation, Wrong left turn violation, Wrong direction driving violation.	Request you to amend the clause as "System should have the facility to provide the live feed of the camera at the central command centre. System should generate Alarms at control room software if any signal is found not turning RED within a specific duration of time. The following Traffic violations to be automatically detected by the system by using appropriate technology. The Evidence camera should also be used for evidence snap generation minimum for Red Light Violation, Stop Line Violation, Wrong left turn violation, Wrong direction driving violation."	System should have the facility to provide the live feed of the camera at the central command centre. System should generate Alarms at control room software if any signal is found not turning RED within a specific duration of time. The following Traffic violations to be automatically detected by the system by using appropriate technology. The Evidence camera should also be used for evidence snap generation minimum for Red Light Violation, Stop Line Violation, Wrong left turn violation, Wrong direction driving violation.
76	362	Vol-II 6.2.4 Speed Detection (SVD) System Speed Violation Application	The speed detection shall have the highest accuracy and capture rate of 99%. The system shall have the ability to track multiple vehicles in single lane. It shall have an accurate measurement of the speed and location of the vehicle within the measuring area. It shall also support wireless handheld device configuration, visual configuration interface in a highly user-friendly and efficient interface. The system shall also be able to detect vehicles go into the wrong. The system must be capable to detect speed of Two-wheeler, Three-wheeler, Four-wheeler and Heavy vehicles.	Handheld management is not part of Speed Application. so request you to remove configuration of Handheld and amend the clause as "The system shall have the ability to track multiple vehicles in single lane. It shall have an accurate measurement of the speed and location of the vehicle within the measuring area. The system shall also be able to detect vehicles go into the wrong. The system must be capable to detect speed of Two-wheeler, Three-wheeler, Four-wheeler and Heavy vehicles."	The system shall have the ability to track multiple vehicles in single lane. It shall have an accurate measurement of the speed and location of the vehicle within the measuring area. The system shall also be able to detect vehicles go into the wrong. The system must be capable to detect speed of Two-wheeler, Three-wheeler, Four-wheeler and Heavy vehicles.
77	397	7.1.3.5 Functional & Technical Requirements of ANPR Camera	6. Optical Character Recognition The system shall perform OCR (optical character recognition) of the license plate characters in real time (English alpha-numeric characters in standard fonts). OCR accuracy shall be at least 90% during day time and 85% during night time for standard number plate . System is able to detect and recognize the English alphanumeric License plate in standard fonts and formats of all vehicles including cars, HCV, LCV and two wheelers. The system is robust to variation in License Plates in terms of font, size, contrast and colour.	Please refer to Vol-II Page No. 363 6.2.4 Speed Violation Detection (SVD) System Speed Violation Application Sr. No. (f) and Vol-II Page no. 366 d) Specifications for Instant Speed System. Sr. No. 15. With reference to the same please amend the clause as: "The system shall perform OCR (optical character recognition) of the license plate characters in real time. (English alpha-numeric characters in standard fonts). OCR accuracy shall be at least 90% during day time and 80% during night time for standard number plate . System is able to detect and recognize the English alphanumeric License plate in standard fonts and formats of all vehicles including cars, HCV, LCV and two wheelers. The system is robust to variation in License Plates in terms of font, size, contrast and colour.	6. Optical Character Recognition The system shall perform OCR (optical character recognition) of the license plate characters in real time. (English alpha-numeric characters in standard fonts). OCR accuracy shall be at least 90% during day time and 80% during night time for standard number plate . System is able to detect and recognize the English alphanumeric License plate in standard fonts and formats of all vehicles including cars, HCV, LCV and two wheelers. The system is robust to variation in License Plates in terms of font, size, contrast and colour.
78	365	Vol-II d) Specifications for Instant Speed System. Sr. No. 4	The Speed system should use a speed sensor which has means to cross confirmation through simulators. The speed sensor should have possibility of proper working without actual vehicle transit.	Since, any vehicle can be identified by number plate, without which challaning can not be done for any offense, Hence we request you to kindly remove this clause. If removal of this clause is not possible, kindly elaborate.	Clause removed
79	365-366	Vol-II d) Specifications for Instant Speed System. Sr. No. 7	vii. Detectable Speed shall be in the range of 320 km/h	Considering the traffic scenario in India and in Bhagalpur, speed range of 320km/h is not possible. Also at S. no. 10.Control: speed setup Km/hr, up to 150km/h ± 3% is asked. Hence we request you to kindly amend the clause as "vii. Detectable Speed shall be in the range of 150 km/h"	vii. Detectable Speed shall be in the range of 150 km/h

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80	366	Vol-II d) Specifications for Instant Speed System. Sr. No. 19	Third party (authorized company to do so) speed test reports can be submitted to client. On field detailed speed test reports for more than 120-200 km/hr with various speed limits. Alternatively, the system should be approved and homologated by some traffic or infrastructure department who directly over sees fine generation post implementation but before FAT.	Speed test reports / certificate should only be accepted when the tests are done by NABL Labs who are handling vehicle speed related activities like ARAI. Also certificate from IPS officer should not be accepted. So kindly amend it as: "Speed detection accuracy of the system should be certified from the authorised Indian Govt. body like NABL LAB and accuracy should be up to 150km/h ± 3%"	Speed detection accuracy of the system should be certified from the authorised Indian Govt. body like NABL LAB and accuracy should be up to 150km/h ± 3%.
81	401	Vol-II 7.1.3.6 Functional and Technical Requirements of RLVD Sr. No. 21 (test reports)	Third party (authorized company to do so) speed test reports can be submitted to client. On field detailed speed test reports for more than 120-200 km/hr with various speed limits. Alternatively, the system should be approved and homologated by some traffic or infrastructure department who directly over sees fine generation. or A certificate/test report from reputed research institutes accredited and recognized by Govt of India is acceptable. Certificate on the accuracy from any IPS officer for ±2 kmph and running satisfactorily in Indian city for at least an year is a must.	Speed test reports / certificate should only be accepted when the tests are done by NABL Labs who are handling vehicle speed related activities like ARAI. Also certificate from IPS officer should not be accepted. So kindly amend it as: "Speed detection accuracy of the system should be certified from the authorised Indian Govt. body like NABL LAB and accuracy should be up to 150km/h ± 3%"	Speed detection accuracy of the system should be certified from the authorised Indian Govt. body like NABL LAB and accuracy should be up to 150km/h ± 3%.
82	366	Vol-II d) Specifications for Instant Speed System. Sr. No. 20	Test reports for IP 66 for cameras should be provided. This is to support harsh rainy season and dusty environment.	IP 66 is for HOUSING of camera only and not for the camera. Hence we request you to amend the clause as "Test reports/certificate for IP 66 for cameras housing should be provided by the OEM. This is to support harsh rainy season and dusty environment."	Test reports/certificate for IP 66 for cameras housing should be provided by the OEM. This is to support harsh rainy season and dusty environment.
83	369	Vol-II d) Specifications for Instant Speed System. Sr. No. 14	The industrial processor used should be provided with each camera. Should be minimum multiple core , RAM 2 GB, with SD storage and USB storage options, temp -40 to 60 degrees and should be part of system.	As per climate of Bhagalpur, temperature can not go below 0 degrees, so request you to amend the clause as "The industrial processor used should be provided with cameras. Should be minimum multiple core , RAM 2 GB, with HDD storage and USB storage options, temp 0 to 60 degrees and should be part of system."	The industrial processor used should be provided with cameras. Should be minimum multiple core , RAM 2 GB, with HDD/SD storage and USB storage options, temp 0 to 60 degrees and should be part of system
84	RFPV2, 43	GIS Maps Features	The system shall support Android, IOS and Windows Mobile platform	1) Windows as mobile platform is end of life. Hence we suggest to remove windows mobile platform support.	The system shall support Android/Windows Mobile, IOS
85	RFPV2, 208	5.4 GIS Survey, Mapping & Enterprise GIS Overview:	MSI shall assess the quality of available GIS data and accordingly shall create the GIS data creation plan for remaining data layers in consultation with the BSCL. GIS data creation should support rule based/dynamic rule based model on industry standard such as Topology, Spatial connectivity rules, relationship, GIS layer domains and subtypes, GIS Geometric network, industry specific editing rules and future scalability.	1) What are the GIS layers available with BSCL . what is the scale of those available layers ? Please provide detail. 2) Also give list of layers required to be created additionally along with map scale to arrive at accurate techno-commercial estimates. 2) Please provide the Area of Interest (AOI) in Sq KM for Bhagalpur city area for which data is proposed to be created. 2) What is the source of data creation or base map? If data (base map) to be created from satellite Image, please provide resolution of satellite Image and other technical specification. 3) Also please suggest ,Will satellite image be procured by BSCL or it is in the scope of bidder? Since Satellite image can be procured only through NRSC-ISRO, we suggest it should be done as Govt to Govt procurement by BSCL directly from NRSC-ISRO.	BSCL shall provide the base map to MSI if available. MSI shall update the Smart City Implementations alone on the base map.
86	RFPV2, 217	5.4.3 Multi Utility GIS Based.....	SI is required to update GIS maps from time to time.	1) Please clarify the frequency of update and source of update? Normally it is on yearly basis. 3) if there is need to be procure satellite data to update basemap ? If yes, who needs to procure it. Since Only source of Image procurement is NRSC-ISRO, we suggest that it be done as government to government purchase by BSCL directly from NRSC-ISRO.	MSI will pay the cost in project tenure.
87	Page No.221	Scope of GIS Survey Work	Collection of Survey Data through Tablet PC Apps: Floor Area/Carpet Area(Sq. Ft.) Plot Area (Sq. Ft.)	Collecting Actual internal and external measurement of property is quite sensitive activities which can lead to various socio-political issues among the residents. This can potentially be the major risk items for overall project. Hence we request to keep this field optional and to be filled as per self declaration of the respective citizen. Kindly clarify.	Collection of Survey Data through Tablet PC Apps: Floor Area/Carpet Area(Sq. Ft.) Plot Area (Sq. Ft.). This data captured through the consent of citizens and if they deny then this data will be captured by their self declaration form and validated by the surveyor.
88	419-430	Annexure 1: Bill of Quantity	whole table	Although functional requirement and specification of Anti-DDoS (sub_section- 5.2.1.24) and SSLi (sub_section-5.2.1.28) is mentioned in the RFP but required quantity is missing in Bill of Material Table.	Included in Bill of Quantity
89	349 of 504	Volume -II : Scope of Work, 6 SOW For Integrated Traffic Management System (ITMS),6.1.1.1 Technical Requirements of Countdown Timer, Point 7 & 8	Lamp Diameter : 300mm	3 Digit (999) shall be required to accommodate balance time in an ATCS environment where cycle time can go upto 240 Sec. Considering 3 digit with 999 as the display requirement, 3 digits of minimum 150mm digit height will not fit in a lamp diameter of 300mm. Hence this clause of 300mm diameter needs to be repalced by Display area of 320mm x 320mm	Lamp Size: as per requirement of the digit hight.
90	371 of 504	Volume -II : Scope of Work, 6 SOW For Integrated Traffic Management System (ITMS), 6.2.4.2 Traffic Sensors Lights and Signals, Point C (xviii)	Fuse and Transients: Available	Advance LED Drivers now a days has got built in short circuit and overload protection where fuse is not required. Request you to kindly remove fuse requirement.	Advance LED Drivers with built in short circuit and overload protection

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91	371 of 504	Volume –II : Scope of Work, 6 SOW For Integrated Traffic Management System (ITMS), 6.2.4.2 Traffic Sensors Lights and Signals, Point C (xx)	Total Harmonic Distortion: <20%	Total Harmonic Distortion(THD) is applicable only when input voltage is 230V AC however as per clause Annexure-6/3A, LED Aspect with 24V DC input is also allowed. If the bidder chooses to opt for 24VDC LED Aspects then THD will not be applicable. Please change the clause to : THD<20% wherever applicable	THD<20% wherever applicable
92	394	Volume -2 7.1.3.3 Functional & Technical Requirements of PAN, Tilt & Zoom(P TZ) Camera	Sensor 1/2.8" Progressive scan CMOS	Please amend to "Sensor 1/3" Progressive scan CMOS or better" 1/3" is the standard size. Current configuration of camera with 256 presets or more as specified in the RFP is met with 1/3" CMOS size camera. Please amend. Also, all other cameras are specified as 1/3" in the current RFP except PTZ, and so this change will help in clearing any ambiguity.	Sensor 1/3" Progressive scan CMOS/CCD or better
93	394	Volume -2 7.1.3.3 Functional & Technical Requirements of PAN, Tilt & Zoom(P TZ) Camera	IR Inbuilt IR , IR distance up to 150 mtr	Please amend to " IR Inbuilt IR , IR distance up to 100 mtr or better" Please amend for 100 meter which is the industry standard.	IR Inbuilt IR , IR distance up to 100 mtr or more
94	Page no 397 of 505	Volume II: Scope of Work, 7.1.3.4 Functional & Technical Requirements of Outdoor Dome Camera	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF, ARP(Optional).	Request to remove UPnP since it's not a safe protocol	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, IGMP, SNMP, QoS, ONVIF, ARP(Optional).
95	Page no 403 of 505	Volume II: Scope of Work 7.1.3.7 Functional & Technical Requirements of Infrared Illuminators	IP66, IK09 Rated	Suggest change it to IP65/IP66 which is enough for Infrared Illuminators for Outdoor environment	IP65/IP66, IK09 Rated
96	Page no 403 of 505	Volume II: Scope of Work 7.1.3.7 Functional & Technical Requirements of Infrared Illuminators	0 °C to 55 °C or better	Suggest change it 0 °C to 50 °C or better since 50 °C is enough for India environment	0 °C to 50 °C or better
97	111		11.9. CF card detection, maintenance, and alarm	CF Card is an old way of taking config backup etc. which has been replaced by USB port. USB port is already asked in the specs so request you to kindly remove "Compact flash slots & CF Card detection"	11.9. CF card/USB detection, maintenance, and alarm
98		7 CCTV Surveillance System	LOEM of CCTV shall have local support centre.	LOEM of CCTV shall have local support centre or should give undertaking to open the service center within 30 days after signing the contract.	LOEM of CCTV shall have local support centre or should give undertaking to open the service center within 30 days after signing the contract.
99	17	Volume 2, Clause 2.1.2 Scope of work Integration with existing and proposed ICT Systems within BSCL) e-Municipality	Please clarify that e-Municipality system implementation is not in the scope of this tender.	Please clarify on existing e-Municipality modules already implemented at Bhagalpur Nagar Nigam.	Existing e-Municipality modules already implemented by Govt. of Bihar for Bhagalpur Nagar Nigam. Now The e-Governance modules As per RFP of BSCL will integrate with existing e-Municipality modules. No need to separately develop the e-Municipality modules.
100	295	Vol-2, Clause-5.7, Web Portal and Mobile Application	It is given that eGovernance and Mobile Application developed in Bhagalpur Smart City will be replicated to all other Cities of Bihar with same source code. Do the bidder need to consider License fees for other cities and implementation and support charges for the same in this Bhagalpur Bid ? please include /add this components in the Financial Bid eform/BoQ or delete it.	Scope in Bhagalpur RFP need to be given in corrigendum to make us clear effort estimation and better financials.	The e-Governance and Mobile Application developed in Bhagalpur Smart City will be replicated to all other Cities of Bihar with same source code. This feature is for scalability purposes only and it will also depend on the competent authority to deploy this modules for future perspectives. Hence no additional charges will be given to the bidders.

Sd/-
Chief Executive Officer