

JSCL/office/No: - JSCL/2017/ 71

Date: - 04/02/2017

Corrigendum 3


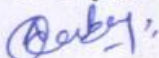
Intelligent Pole RFP: JSCL 2017/35

This is with reference to NIT JSCL/2017/01 dated- 02-01-2017 "For Selection of Concessioner for Implementingsmart intelligent poles" for Smart City Limited Jabalpur in various newspapers. This is to inform to all that following amendments has been made, which is as under:-

Revised bid schedule:

- 1) Last date of purchasing of tender documents : 25/02/2017
- 2) Last date of submission of document online : 28/02/2017
- 3) Last date of submission of document hardcopy : 02/03/2017 before 05:30 PM
- 4) Date of opening of Technical Bid : 03/03/2017
- 5) Technical Presentation by the concessionaire : 08/03/2017
- 6) Date of opening of Financial Bid : 10/03/2017

Clarification of Pre-bid queries is attached with this.


Executive Director
Jabalpur Smart City Limited


Pre-Bid Clarification:

Pre-Bid meeting was held on 25th of January 2017, following clarifications were sought with the response given as of below:

Sr. No.	RFP Section	Content Requiring Clarification	Points of Clarification	Justification, if any	Response
1	Technology	Solid state LED illumination technology	Laser Light Source is the latest, should be changed to Laser	The brightness increase by more than 50%	LED Illumination and Laser Light Illumination both will be acceptable
2	Display Unit (CCC)	The Visual Display Unit / Rear Projection Module must be based on Single Chip Rear Projection Technology. Should have the scalability and upgradeability to be made up of multiple rear projection modules stacked up in columns to achieve a display wall for better viewing ability in linear or curved configuration.	Size of the Cube and Matrix of Video wall required.	Must require to prepare the BOQ	2x2 matrix of 70 Inches rear projection DLP based video wall with LED/ Laser light source
3	Brightness	Uniformity of 85%	> 98%	Higher uniformity is available in Laser	As per RFP
4	12.7.5.13 Output Power Factor at Full Load	Not mentioned	Unity Power factor (KVA=KW)	Less loss of actual Power (KW) as most of	Unity Power factor (KVA=KW) will be required
5	12.7.5.13 Input Power Factor at Full Load	>0.90	> 0.99 (full load)	Less loss of actual Power (KW).	> 0.99 (full load)

6	12.7.5.13 Output Voltage	400V AC, Three Phase for over 5 KVA UPS	415V AC, Three Phase for over 5 KVA UPS	Wider Output Voltage Range, hence more uptime	Accepted
7	12.7.5.13 Inverter efficiency	>90%	96% at full load.	More Energy Savings.	Accepted
8	12.7.5.13 Over All AC-AC Efficiency	>85%	96% at full load.	More Energy Savings.	Accepted
9	12.7.5.13 Current Harmonic Distortion	Not mentioned	<3% (linear load)	Less Pollution/ Noise in the Power Distribution.	Accepted
10	12.7.5.13 Voltage Harmonic Distortion	Not mentioned	<2% (linear load)	Less Pollution/ Noise in the Power Distribution	Accepted
11	12.7.5.13 Safety & EMC	Not mentioned	CE, IEC62040-1, IEC602040-2	International Safety Standards	Accepted
12	12.7.5.13 Parallel Redundancy	Not mentioned	maximum 4 units in parallel	For future Expansions	Accepted
13	12.7.5.13 Overload Capability	Not mentioned	≤105 %: continuous; 106% ~ ≤125%: 10 minutes; 126% ~ ≤150%: 1 minute; >150%: 1 second	Improves Uptime & reliability	Accepted
14	12.7.5.7	Storage Specifications - 6. Raid Support	Should support various RAID levels (Minimum RAID6 or equivalent)	Requesting authority to change this clause as Should support various RAID Levels (Minimum Raid 6 for cameras data and Raid 5 for all other Data)	Accepted

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15	12.7.5.7	Cache	Minimum 128 GB of useable cache spread across all controllers of the storage system. If cache is provided in additional hardware for unified storage solution, then cache must be over and above 128 GB.	Requesting authority to change this clause as Minimum 128 GB of useable cache, scalable to 256GB, spread across all controllers of the storage system. If cache is provided in additional hardware for unified storage solution, then cache must be over and above 128 GB.	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP
16	12.7.5.7	Storage Specifications -11-IOPS	Offered Primary Storage shall support up for the operation. Please suggest how we reached this value	This seems to be typo error. Please specify how much IOPS are being looked upon?	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP

17	12.7.5.7	File System-13	The File system managing the SAN Storage should support the management of Secondary Storage to move the data from Primary to Secondary Storage.	Request you to please remove the clause as the File System Clause is specific to an OEM / Technology.	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP
18	12.7.5.8	SAN Switches	Designed for high availability with no Single Point of failure	Would request authority to change this clause as " Minimum dual SAN switches for high availability with no single point of failure"	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP

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19	12.7.5.9	SAN File system & Tape Library -1. General	Complete Specification of "SAN File system and Tape library"	Request you to please remove the clause as the File System Clause is specific to an OEM / Technology.	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP
20	12.7.5.8	SAN Switches- Operating Relative Humidity range (non-condensing)	10 to 90% relative humidity	10 to 85% relative humidity	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP

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21		Additional Clause		Request authorities to please add" Offered storage OEM shall be in Gartner leaders' quadrant from at least last 3 years".	As per RFP
22	Page 10 / Page 138 Clause 12.1	Intelligent Poles: Intelligent Poles will be installed on 200 locations	Since the tender is on PPP model and for better profitability (and hence a better revenue share) request to reduce the number of poles to 50 as RFP requirement. Further poles would be installed as per operators requirement and appropriate revenue share (mentioned as part of the bid) would be shared with JSCL		As per RFP
23	Clause 20 Page 67	The cabinet where telecom equipment is store should be IP67 compliance	The basis for the clause is not known and not a general design. The bidder should have the flexibility for intelligent pole to have optimum design of cabinet as per telecom. Kindly amend or remove.		Clause remains unchanged. The basis for the clause is to maintain IP67

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24	Clause 23 Page 67	The overall power budget for intelligent pole should not exceed 2KW (telecom + lights)	The overall power budget for pole or high mast should be as per operator requirement as single technology i.e. 2G or 3G or 4G consumes around 1.2 kw. This contradicts the requirement of sharing the pole for multiple opcos and multiple technologies. The restriction on power shall reduce no. Of telecom operator occupancy and henceforth affect the monetization of poles. Hence power requirement shall be optimum as per operator requirement.		Overall power budget for 12 meter intelligent pole should be 2 KW (max). However the power budget for 25 meter pole may vary as per the operator requirement.
25	Clause 18.5.5 Page 192	CCTV Locations	Since the CCTV locations need to be connected on fiber, we request to provide list of CCTV locations to estimate the fiber route length.		Locations are attached with the corrigendum
26	Clause 8.1, Page 41	LED based Smart Street Light	Please forward us the map of the locations where these LED lights are to be installed.		LED street lights location will be defined as per the survey conducted by the concessionaire and approvals provided by JSCL

27	Clause 8.3	Fiber	In case the concessionaire wishes to add more pair of fibers, pls confirm only 4 strands are to be shared with Authority		only 4 nos. of optical fiber core to be shared with authority
28	Clause 18.5.3 Page 190	Locations of Environmental Sensors	Pls provide exact locations of Environmental Sensors as feasibility need to be sought from vendors for integration.		One environment sensor will be required in each of the municipal wards.
29	8.13, Page-57	Operations and Maintenance	The SLAs calculation should not include preventive and scheduled maintenance. It should be basis on the uptime and rest should be left to Concessionaire to manage		Preventive and scheduled maintenance activity will be excluded from SLA calculations. However uptime should not be affected. SLA calculation will be applicable on uptime.
30	8.13, Page-57	Operations and Maintenance	Please confirm that the ROW permissions free of cost shall be valid for repair and rectification (O&M) work and New Rollout during the entire contract period of 15 years as well		Agreed, ROW for repair & rectification activity and for new rollout (as per the RFP) will be provided free of cost during entire concession period

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31	Concession period		Please confirm our understanding that 1 Year implementation period is over and above the O&M period of 15 Years from the date of acceptance. We would further request to have the option of extension of another 15 years.		As per RFP, 1 Year implementation period and 14 years operation period will be considered as concession period
32	Consortium type		Please confirm our understanding that Consortium could be incorporated or unincorporated for bidding and subsequent execution of the Project.		Consortium should be incorporated prior to bidding
33	Video Wall Para 12.7.3 .1		During Pre RFP, all the bidders discussed on the location of CCC wherein this was clarified that CCC can be located anywhere in India till the time, all functionality is supported and the specification is non-binding to bidder. The relevant feeds can be sent to JSCL and any other authority basis their requirement. Request to confirm.		As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP

34	Clause 14.2.1 Page 144	Delay beyond 10 weeks: 10% for the undelivered supply/services.	Generally it is capped at 5% of the undelivered stores. We feel 10% is too high and would request you to dilute the same.		As per RFP
35	Clause 14.2.2 Page 144	These SLAs shall be used to evaluate the performance of the services on monthly basis but penalties would be levied for cumulative performance for the quarterly basis up to 10% of quarterly revenue realized.	Penalty on SLA Violation of 10% is too high. Would request you to cap the same to 5% of the quarterly revenue realized		As per RFP
36	Clause 14.2.5 Page 148	SLA Reporting system	This should be Element management system for each type of node and not enterprise management system particularly when the city/state is coming up with separate CCC / Data Centre. Request to provide flexibility on same.		As per RFP
37	Clause 12.3.1 Page 76	Surveillance	Surveillance is the subject of Ministry of Home. We strongly feel that instead of surveillance it should be parking violation as envisaged by Bhopal.		Cameras will be used to observe Municipal assets for: Parking Violation & Crowd detection
38	Page 171	Source code	Source code cannot be provided as the same is nontransferable. Only to Right to use shall be		As per RFP

			provided		
39	Grant	Grant	Please clarify the mechanism of disbursement of Grant during the implementation phase. Also confirm, our understanding that there will be no tax or TDS or any other form of deduction will take place while disbursing the Grant		No grant will be shared by JSCL
40	Clause 8.8.2 Page 53	Final Acceptance Test	What is the maximum duration within which the Officer in Charge shall issue the Acceptance certificate		Final acceptance certificate shall be issued by JSCL to the Concessionaire after successful testing in a real time condition for at least 15 days of trouble free operation
41	Cl 2.1.1 Page 15	A bidder bidding as a lead member is not entitled to submit another bid either as individual or as consortium. However, a bidder participating as a Consortium may tie-up with more than one lead bidders while participating.	We recommend that a member of a particular Applicant Consortium cannot be member of any other Applicant Consortium applying for this project to avoid conflict of interest. Pls confirm.		As per RFP

42	Cl 8.6 pg52	Centralized Command and Control Centre	During Pre RFP, all the bidders discussed on the location of CCC wherein this was clarified that CCC can be located anywhere in India till the time, all functionality is supported and the specification is non-binding to bidder. The relevant feeds can be sent to JSCL and any other authority basis their requirement. Request to confirm.		As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP
43	Cl 8 Page 40	Future smart city interventions - transport, traffic, panic sensor, water sensor	We understand that these provisions are required as optional and all hardware / software/ CCMS provisions etc. to be provided extra during provisioning of the same. Pls confirm.		Yes, These provisions are required as optional

44	Cl 8.1.1 pg. 43 & 8.1.2	Concessionaire shall be responsible for identifying existing street light cables or conductors or existing damaged poles in street light infrastructure maintained by JSCL. In such instances, Concessioner will provide the reasons and related investment costs for replacement with suitable justification wherever required. The replacement of such infrastructure will be done by JSCL and/or Power Discom as the case may be	The clause has contradiction with clause 8.1.2. During the O&M period also, this would be under purview of JSCL only. Kindly confirm.		Clause 8.1.1 remains same, As per Clause 8.1.2, post implementation replacement will be done by concessionaire
45	Cl 8.1.1 Page 42	Each and every LED should be monitored and controlled from the Command and Control Centre with the aid of a centralized software.	The LED control should be done in a group through CCC. Individual control would have unnecessary cost impact; thus increasing the grant. Kindly amend or remove		Under clause 8.1.1 The clause to be read as "Two step dimming functionality shall only be provided for luminaires having power of more than 90W. Luminaires with power <90W shall be controlled (ON/OFF) and monitored in groups from their respective feeder panels upon

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					instructions from centralized software"
46	Cl 8.1.1 Page 44	<p>Concessionaire will obtain all necessary approvals, sanctions, licenses in the name of Concessionaire for installation of proposed equipment pertaining to the project from the concerned competent authorities and maintain validity of the same at all times during the project duration.</p> <p>Concessionaire will bear the charges or pay deposits or any other amount for such approvals/licenses/sanctions as may be necessary. JSCL will facilitate the requirement/clearances as and when required.</p>	<p>We understand that all approvals required for implementation shall be free of cost and through a single window without any additional payment or deposits for such approvals/licenses/sanctions. Kindly confirm.</p>		As per RFP

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47	Cl 8.3 Page 49 Fiber	The Right of Way (RoW) will be provided by JSCL, however Concessioner need to take the clearances from various departments and JSCL will facilitate the same.	In case RoW is provided by JSCL, We understand that the Concessionaire doesn't need to take any clearances and all would be part of RoW by the way of definition itself. RoW including associated charges shall be free of cost. Also to expedite the implementation, a single window clearance is recommended.		As per RFP
48	Cl 8.4 Page 51	Concessioner will have to identify and obtain necessary legal / statutory clearances for erecting the poles and installing cameras, for provisioning of the required power, etc.; the same will be facilitated by JSCL. It is important to mention that a timely communication and required follow-up will be required by the Concessioner for the clearances	During our Pre RFP discussion, we understood that the approvals required for implementation shall be free of cost and thru single window to expedite speedy implementation. Request to confirm.		As per RFP

49	Cl 7.2.1(3.2) Page 37	The Bidder should have completed projects for outdoor CCTV installation of 100 IP based digital cameras with Central monitoring system. • >= 200 = 5, • >= 150 < 200 = 3, >= 100 & < 150 = 1	Pls clarify if a project under execution to be considered in evaluation criteria.		<ul style="list-style-type: none"> • Any consortium partner or Single Bidder or Group Company of single Bidder / consortium partner should have completed projects for outdoor CCTV installation of 100 IP based digital cameras with Central monitoring system in India or Global >= 200 = 5 • >= 150 & < 200 = 3 • >= 100 & < 150 = 1
50	Cl 7.2.1(3.3) Page 38	The Bidder should have executed projects for implementation of Smart LED Project for street light of 100 Smart LED luminaires or higher. >= 2000 = 5, • >= 1500 & < 2000 = 3, • >= 1000 & < 1500 = 1. Smart LED: On/Off remotely (please refer scope for more understanding)	Pls clarify if a project under execution to be considered in evaluation criteria.		<p>Any consortium partner or Single Bidder or Group Company of single Bidder / consortium partner should have executed projects for implementation of Smart LED Project for street light of 1000 Smart LED luminaires or higher. • >= 2000 = 5 • >= 1500 & < 2000 = 3 • >= 1000 & < 1500 = 1</p> <p>Smart LED: On/Off</p>

					remotely (please refer scope for more understanding)
51	Cl 8.1 Page 42 having compatibility to communicate with LED luminaire to achieve two step dimming with an astronomical On/Off timer at pre- determined time ...	We would like to mention that dimming and ON/OFF can be achieved through Software Application hence option should be given for alternate technology. Kindly let us know if our understanding is correct. Request to clarify technology aspect of two step dimming and detailed functionality.		Two Step dimming through software application is also accepted

52	Cl 8.1.2 Page 44	Regular maintenance of street light conductors and underground cables	To maintain the lights, it is important that the underground and overhead cables till feeder panel is provided in perfect condition including replacement required by JSCL for the entire concessioner period.		Clause 8.1.1 remains same, As per Clause 8.1.2, post implementation replacement will be done by concessionaire
53	Cl 8.1.1 Page 44	The Concessioner will be fully responsible for all kind of theft including electricity	JSCL to ensure no electricity theft is happening as bidder who is a private party shall not have any mandate to stop theft in the respective circuits. Request to remove from bidder's scope.		The clause to be read as "The Concessioner will be fully responsible for generating alerts for all kind of theft including electricity"
54	Cl 8.1.2 Page 45	The Concessionaire shall monitor the electrical load on each phase & each circuit in the panel & also maintain load balance equally on all the phases. Concessioner shall never allow any circuit to be overloaded	Please confirm do all three phase cables are passed through 26699 poles to design/Execute/maintain Load balancing. If not, pls allow exclusion of the same.		The clause remains unchangedElectrical topology will be defined by concessionaire in order to maintain equal load balancing

55	Cl 8.1.3 Page 45	Guaranteed Energy Saving	<p>What is the mechanism for baseline calculation for Energy Saving on Feeder Panel? How is the Power Factor, Leakage and Theft to be addressed on daily basis for baseline calculation? Request to provide complete details for baseline calculation.</p>	<p>Concessionaires are expected to carry out necessary field surveys to verify the status of switching points, physical installations, geographic area covered and scope of the project defined so as to fully satisfy themselves on the existing field conditions and their scope. They will also be responsible for reviewing the baselines established pursuant to Energy Audits completed recently and satisfy themselves on the scope and feasibility of the project implementation for Feeder panel and Smart LED light fixtures.</p>
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56	Cl 8.3 Page 49	The total length of the optical fiber will be 200 kms and will go upto all last mile connectivity as proposed in this RFP document.	We understand that fiber shall be laid only for connecting Smart pole and associated components for completing the network connectivity. Fiber laid apart from mentioned components to be used for monetization.		Fiber shall be laid for connecting intelligent pole and associate components as well as 4 nos of fiber core will be provided to JSCL. Concessionaire can use the fiber laid apart from mentioned component for monetization
57	Cl 8.3.1 Page 49	Scope of Work	As discussed during pre RFP stage, we understand that huge amount of Fiber is already by existing telecom operators. Pls clarify if the bidder has flexibility to take fiber on lease for network deployment.		As per RFP
58	Cl 12.2.3.3 Page 72	Meters should have requisite port (Serial port communication – RS232 orRS485) for enabling remote reading and for connection of Modem for the same	Please suggest the approved energy meter for remote reading		Energy Meter specifications should meet the minimum specifications specified by DISCOM and a sign-off on the same shall be obtained from DISCOM prior to finalizing the

					specifications;
59	Cl 7.2.1(3.1) Page 37	The Bidder should have completed projects of Public Wi-Fi and related network infrastructure projects. The number of Access Points installed and in working condition in India; • $\geq 500 = 5$, • $\geq 250 \& < 500 = 3$, • $\geq 100 \& < 250 = 1$	Pls clarify if a project under execution to be considered in evaluation criteria.		Any consortium partner or Single Bidder or Group Company of single Bidder / consortium partner should have completed projects of Public Wi-Fi and related network infrastructure projects in India. The number of Access Points installed and in working condition in India; <ul style="list-style-type: none"> • $\geq 500 = 5$ • $\geq 250 \& < 500 = 3$ • $\geq 100 \& < 250 = 1$

60	Cl 12.3.2 Page 78	VMS shall support a flexible rule-based system driven by schedules and events	Please elaborate what all rules and detailed functionally are required to integrate with the VMS as RFP doesn't specify the same.		Flexible rule based system means the flexibility to manage rules to generate alerts in case of any event detected.VMS shall be enabled for integration with any external Video Analytics SystemsThe analytics will be used to detect• Parking Violation• Crowd Detection
61	Cl 8.3, pg. 49	Under this project all Government offices, Street Infra with Smart Components etc. shall be connected as part of the scope of this project	We would request to let us know the name and locations for fiber feasibility within 200 kms since the fiber laying carries a cost. Charges for any location apart from provided list would be charged separately.		The offices comes under JMC will be connected through optical fiber cable. Locations are attached with the corrigendum
62	Cl 8.4 Page 51	Concessionaire is required to update GIS maps from time to time.	The Static map with light and camera position is sufficient. Request to incorporate accordingly.		Concessionaire will update the locations on GIS Map developed by JSCL

63	Cl 8.4 Page 51	During implementation period, in case the pole is damaged by a vehicular accident (or due to any other reason outside the control of SI) and needs repair, then the SI will need to repair / have the new pole within 15 days of the incident. Damages are to be borne by SIs in such cases through proper insurance	Since the clause mentions on damage outside the control of SI, the authority need to replace the damaged pole. Kindly confirm.		As per RFP. Damages are to be borne by concessionaire in such cases through proper insurance
64	Cl 8.4 Page 51	If at any stage the CCTV online data is required to be connected to Police Control Room/Command Center, the concessionaire will connect it to the same	In case of such connectivity, The necessary cost of connectivity to be borne by the authority. Request to incorporate and confirm.		No connectivity is required to Police Control Room. However the data required by police to be provided as soft copy.
65	Cl 8.10,pg 55	Help desk	The helpdesk is recommended to be furnished by authority basis their requirement as JSCL shall be responsible for running the CCC.		As per RFP, Helpdesk will be required

66	Section No. - 12,12.1.2, Page - 66, Point- 2	Pole Height requirement is 12 meters. 10 % of the total no. of poles can be of 25 meters. TRAI and DOT guidelines to be followed as the pole will be used as a telecom site. Any local regulations will be taken care by the Concessionaire	We should avoid capping of no. of pole of 25 mtr. This should be governed as per operator. Also the bidder should have exclusive rights to place such 25m pole in the concessioner period and all request from telecom operator should be passed to the concessioner.		As per RFP
67	Cl 12.3.1.4,pg77	Sign specification	Since this requirement is more for public information, we would request authority to keep this out of scope from bidder.		As per RFP
68	Cl 12.7.5.17,pg127	Civil and architectural work	JSCL to provide the space for CCC if required. During Pre RFP, all the bidders discussed on the location of CCC wherein this was clarified that CCC can be located anywhere in India till the time, all functionality is supported and the specification is non-binding to bidder. The relevant feeds can be sent to JSCL and other authority basis their requirement. Request to confirm.		As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP

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69	General		It is mentioned that only vendors which are identified during the bid process can be used for purchases. It is suggested that Concessionaire is free to purchase from other vendors later also as long as same quality and specifications are retained		Accepted
70	Page 43	Concessionaire shall be responsible for identifying existing street light cables or conductors or existing damaged poles in street light infrastructure maintained by JSCL. In such instances, Concessioner will provide the reasons and related investment costs for replacement with suitable justification wherever required. The replacement of such infrastructure will be done by JSCL and/or Power Discom as the case may be.	In case of defected light infrastructure, the replacement or repair of the infrastructure would be completed by JSCL or necessary govt. authority within 1 week of highlighting by Concessionaire. Otherwise Concessionaire will not be held responsible for any delay in SLAs and appropriate revenue share due to the same		As per RFP

71	Page 44	Concessionaire will liaison with Power Discoms during pre and post implementation periods of the project for addressing all the electricity billing issues such as average billing, metering, replacement of defective meters, reduction or increase in contract demand as per the actual loads, power factor incentives etc. JSCL will facilitate all such meetings;	Till all issues are addressed, SLAs will not be applicable on Concessionaire as at times there are activities which are beyond a private company's control		Concessionaire can inform JSCL about the reasons which are beyond the control. However the final decisions on penalty will be taken by JSCL.
72	Page 49	Under this project all Government offices, Street Infra with Smart Components etc. shall be connected as part of the scope of this project	The connection at Govt offices would be in form of an open fiber only which has to be lit / powered by the necessary authority at their cost inside the building if feasible. Kindly amend.		Offices comes under JMC to be connected through optical fiber
73	Page 51	Concessioner will have to identify and obtain necessary legal / statutory clearances for erecting the poles and installing cameras, for provisioning of the required power, etc.; the same will be facilitated by JSCL. It is important to mention that a timely	It is assumed the Concessionaire doesn't need to take any other clearances apart from JSCL and all are included in RoW by the way of definition itself. RoW shall be free of cost and a single window is recommended for expediting the work. Till addressed, SLAs and		As per RFP

		communication and required follow-up will be required by the Concessioner for the clearances	appropriate revenue share will not be applicable on Concessionaire		
74	Page 61: Clause 9.1	Concessioner will liaison with power discoms (JSCL will facilitate the meeting) to get the meter installed, however the cost of installation and recurring cost will be borne by the Concessioner.	There is no need for Concessionaire to install meters as it is to be installed by present discom as per existing process.		As per RFP. The cost involved will be borne by the concessionaire
75	Page 45 Clause 8.1.3	Guarantee towards the Electricity Consumption for new Street Lighting instead of old existing street lights as per annexure 1. After replacement of existing street light with energy efficiency LED street light minimum 35% of energy saving should be mandatory.	Please share the guarantee format		Refer RFP & Concession Agreement

76	Page 62: Clause 10.1	Exclusive Right of Way (RoW) throughout the Concession period, free of cost, for telecom site deployment on the Intelligent Poles installed by concessionaire and generate revenue out of tenancy	Please provide exclusivity of this RoW across the city to ensure monetization of the investment is better and ability to provide a better revenue share to JSCL. Request your confirmation.		As per RFP
77	Page 62: Clause 10.3	Non-exclusive and free RoW across 26699 street poles & other municipal street furniture and exclusive rights on Intelligent Poles to house access points for Public Wi-Fi.	Request to provide exclusivity of this RoW across the city to ensure monetization of the investment is better and ability to provide a better revenue share to JSCL.		As per RFP
78	Page 52	The feed of said Command & Control center shall be provided to JSCL's Centralized Command & Control Center	JSCL to provide the space for CCC if required. During Pre RFP, all the bidders discussed on the location of CCC wherein this was clarified that CCC can be located anywhere in India till the time, all functionality is supported and the specification is non-binding to bidder. The relevant feeds can be sent to JSCL and other authority basis their requirement. Request to confirm.		As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP

79	Page 170	Deployment of Personnel	It is difficult to outline all the individuals this early in the project - suggest to keep it open as of now		As per RFP
80	Page 168	Form 11	It is difficult to outline all the individuals this early in the project - suggest to keep it open as of now		As per RFP
81	Page 176	Form 18	We understand that for consortium only MOU is required and should not have binding on any registration and equity % investment till the lead bidder is responsible for the same. Request to confirm.		As per RFP
82	Clause- 7.2., Page - 35	Relevant Experience	Experience of parent / group company should be included		As per RFP, Already updated
83	Section No. - 2, Clause- 2.2., Page - 17	2.2 viii whole clause	Pls clarify the clause mentioning "A consortium member not participating in the O&M phase will not own the project"		As per RFP, Already updated
84	Section No. - 8, clause 8.3., Page - 49	After laying the fiber, Concessioner shall be responsible for restoration of the roads, O&M for the entire concession period.	Specific requirements of restoration after laying of fiber may be mentioned to incorporate these in the cost.		RFP is self-explanatory

85	Section No. - 8,clause 8.4., Page - 50	Concessioner shall undertake detail assessment for integration of the Surveillance System with the Geographical Information System (GIS)	We understand that the GIS database should be made available by the city. Kindly confirm.		Concessionaire will update the locations on GIS Map developed by JSCL
86	Section No. - 8,clause 8.4., Page - 51	Concessioner will have to identify and obtain necessary legal / statutory clearances for erecting the poles and installing cameras, for provisioning of the required power, etc.	All legal statutory clearances should be provided free of cost by the city to the Concessionaire as a single window clearance.		As per RFP
87	Section No. - 10,, Page -62	complete clause	In 10, the advertisement ROW is mentioned as exclusive for street poles in 10.4 while it is mentioned as nonexclusive in 10.1, This needs to be corrected and exclusive ROW should be provided		As per RFP, Already updated
88	Section No. - 12,12.1.1, Point- 1, Page - 66	Intelligent pole should able to meet city aesthetic requirement and it should visual appealing. It should easily blend-in into city street pole master plan.	Street pole master plan may be made available by the city before the RFP response is finalized, This is referred to in 12.1.1.1		Street pole master plan will be provided by JSCL post bidding
89	Cl 8.3 Page 49	The total length of the optical fiber will be 200 kms and will go upto all last mile connectivity as proposed in this RFP	Request to clarify if the bidder can use existing laid fiber with no limitation of no. Of Fiber core as this may optimize the cost of RFP as		As per RFP

		document.	discussed during PRE RFP.		
90	Cl 8.1.2 Page 44	Regular maintenance of street light conductors and underground cables	Further it is proposed to remove all cable faulty Scope (Overhead, Underground and cables from Luminaire to Junction Box) from Bidder scope.		As per RFP
91	Pg 42 - Clause 8.1	Providing, erection and commissioning of new street light feeder panels with feedback facility using GSM/GPRS/ETHERNET technology or any other technology and having compatibility to communicate with LED luminaire to achieve two step dimming with an astronomical On/Off timer at pre-determined time & monitor parameters like load & consumption.	We request to provide Specifications and limits of two step dimming.		Under clause 8.1.1 The clause to be read as "Two step dimming functionality shall only be provided for luminaires having power of more than 90W. Luminaires with power <90W shall be controlled (ON/OFF) and monitored in groups from their respective feeder panels upon instructions from centralized software"

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92	Pg 42 - Clause 8.1	The maintenance work includes replacement of faulty material in all street lights, poles, brackets, underground and overhead cables complete accessories in all respects up to the feeder panel.	We understand that JSCL will get all the correction done, whatever fault / damage in the existing network including cables, poles, Energy Meters, Feeder Panels etc.		Clause 8.1.1 remains same, As per Clause 8.1.2, post implementation replacement will be done by concessionaire
93	Pg 42 - Clause 8.1	There are ~26699 street poles in the municipal area on which ~35461street lights are housed. Please refer Annexure VI for the existing status of street light.	Pls suggest the quantity and wattage of lights to be replaced.		12.2.2 Recommended Levels of Illumination (as per BEE guidelines) clause updated
94	Pg 42 - Clause 8.1	They will also be responsible for reviewing the baselines established pursuant to Energy Audits completed recently and satisfy themselves on the scope and feasibility of the project implementation for Feeder panel and Smart LED light fixtures.	Request to provide the complete details on Energy Baseline calculation.		Energy audit report is already available on JSCL website

95	Pg 42 - Clause 8.1.1	The Concessioner needs to retrofit the aforementioned luminaires, other than LED, with LED luminaires and make the entire street lights smart. Each and every LED should be monitored and controlled from the Command and Control Center with the aid of a centralized software.	"Other than LED" - in Annexure VI - LED Lights qty is given 5739. We understand that these LED are not to be replaced. If such LED exists in in one of the section of the feeder, entire Street will not be smart. Hence request to clarify on the methodology of replacement. In case we need to replace these LEDs also, pls specify the wattage for the base lining.		As per RFP, Clause already updated
96	Pg 43 - Clause 8.1.1	Concessionaire shall be responsible for conducting GIS/GPS mapping of street lighting switching points and rationalize the coverage area under the switching points.	License of GIS Software should be the responsibility of JSCL		Concessionaire will update the locations on GIS Map developed by JSCL
97	Pg 43 - Clause 8.1.1	The Concessioner need to make operational at least 40% of the LEDs in the first 6 months and remaining 60% in the another 6 months	Request to modify the clause as 25 -75% as initial phase takes more time being dependent on other activities like baseline / survey etc. and time taken by JSCL to replace all the damaged infrastructure. Further the energy savings would be attributed to Concessionaire from the same date of activation. Request to clarify		Accepted, the Concessioner need to make operational at least 25% of the LEDs in the first 6 months and remaining 75% in the another 6 months

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			the same.		
98	Pg 44 - Clause 8.1.1	Reliability tests and performance and guarantee tests on completion of commissioning	Request to provide the test standards for the same.		Concessionaire will carry out the tests on the basis of the functionality requirement described in the RFP
99	Pg 44 - Clause 8.1.1	Implementation of National Lighting Code illumination parameters towards safety of motorists & pedestrians	Request to clarify on the treatment of existing nonstandard road which are not as per NLC.		12.2.2 Recommended Levels of Illumination (as per BEE guidelines) clause to be referred

100	Pg 44 - Clause 8.1.1	Concessionaire will liaison with Power Discoms during pre and post implementation periods of the project for addressing all the electricity billing issues such as average billing, metering, replacement of defective meters, reduction or increase in contract demand as per the actual loads, power factor incentives etc. JSCL will support Concessionaire in this initiative;	We request JSCL to resolve all the billing related issues with DISCOM including defective meters etc. before handover. During Maintenance, We recommend that who so ever is paying the Discom bills, has to assume the responsibility of the same. In case of issues in the Discom bills, Savings will be calculated based upon the consumption reported through Smart Penal Meter / through CCMS.		As per RFP
101	Pg 44 - Clause 8.1.1	Post satisfactory completion of installations, independent energy auditor will establish the savings on the feeder panel and submit a report to JSCL. JSCL shall issue "Commissioning Certificate" for switching point/meters only if the energy savings are found to be equal or more than the guaranteed savings proposed by the Concessioner.	Irrespective of completion of entire activity, Concessionaire will start O&M of these replaced lights from the date of commissioning certificate. Also Concessionaire will start raising the monthly Invoice equivalent to these savings, as established by independent Energy Auditor - in the respective completed circuits. Request to incorporate this in the RFP.		Accepted

102	Pg 45 - Clause 8.1.1	The Concessionaire shall monitor the electrical load on each phase & each circuit in the panel & also maintain load balance equally on all the phases. Concessioner shall never allow any circuit to be overloaded	If the currently laid wiring / underground cable or by any environmental issues, Load balancing is not possible; need exclusion for the same. Concessionaire will maintain the load balancing wherever possible.		As per RFP
103	Pg 45 - Clause 8.1.1	The payment will be release to the Concessioner as per the basic rate of electricity unit i.e. ~INR6.50 /KWH/KVA.	Request to clarify if the rate mentioned is fixed or shall change basis the rates charged by respective discom. Further kindly clarify the basis of rate which should be kWH and not kVAH. Request to clarify.		The rate mentioned is fixed and the basis of rate will be KWH
104	Pg 62 - Clause 10.2	Revenue sharing as per the Energy Saving out of the smart LEDs	Request to provide the complete details on Revenue sharing mechanism.		Refer Concessionaire Agreement
105	Pg 66 - Clause 12.1 - (5)	It should be possible to support LED luminaries from reputed OEMs	Kindly specify Type, Quantity and wattage of required LED.		Concessionaire preferred OEM's LED luminaries should be mounted
106	Pg 69 - Clause 12.2.3.2 =- (8)	Chip Efficacy: Shall be 135 lumen/watt, system lumen output at 25 degree C, supported by LM80 report shall be submitted.	Request to make the chip efficacy as 115L/w as 135 is very high and may not be required.		As per RFP

107	Pg 71 - Clause 12.2.3.3 -7	Feeder panels should have GPRS/GSM based remote streetlight monitoring system with capacity for self-protection from short-circuit, over voltage and anti-theft alert	We understand that Anti-Theft Alert means power theft. Kindly confirm.		Power Theft alerts should be generated from the feeder panel
108	Pg 71 - Clause 12.2.3.3 -9	Energy Meters to be installed in separately sealable and open able compartment	Kindly specify if there is a provision of installing 2 Meters - one for DISCOM and one For CCMS. In case Feeder Penal meter will be treated as DISCOM meter, will DISCOM allow us to connect the same with Modem etc. and have data on concessionaire server or break the seal in case of any Issues with Data Communication. Kindly specify with details.		Energy meter installed in sealable compartment will be used by Discom, Discom will not allow to break the seal. Where meters are not in proper working condition, Concessionaire shall install a check meter duly tested and certified in accordance with the existing regulations and such check meter will be used for the purpose of energy consumption baselines of Concessionaire project.

109	Pg 71 - Clause 12.2.3.3 -9	Energy Meter specifications should meet the minimum specifications specified by DISCOM and a sign-off on the same shall be obtained from DISCOM prior to finalizing the specifications' Energy Meters shall be tested, installed and sealed in accordance with procedures specified by DISCOM; o A signoff from DISCOM on the design and specifications of the compartment in the Feeder Panel where the meters are to be housed is also recommended;	If these are 2 Meters as requested in Pg 68 - Clause 12.2.3.3 - 9, this is not required.		As per RFP. Already updated Clause 12.2.3.3
110	Pg 72 - Clause 12.2.3.3 -11	Fixed capacitor with appropriate capacity shall be introduced in each feeder panel to always maintain a power factor above 0.90	We understand that there is no need of Capacitor bank as the fixture itself is asked for PF >0.95. Request to clarify.		As per RFP

111	Pg 72 - Clause 12.2.3.3 -12	<p>In case of Single phase controller unit, 1 pole contactor or multiple parallel pole contactors should be used and in case of 3 phases, appropriate duty 3 pole contactor should be used. The number of contactors used should be suitable for ON/OFF/Dimmed and for changeover between full voltages to various voltage taps and interchanging between taps. The panels should be equipped with a microprocessor based Dual Channel Almanac Timer controller which should be user programmable to enable setting of ON/OFF/Dimmed times and also switching over to savings mode/bypass mode when required</p>	<p>The same is served through the Energy Meter Microprocessor along with latch relay. Hence microprocessor based Dual Channel Almanac Timer controller is not be required. Request to incorporate and confirm.</p>		<p>Accepted. The functionality should not be affected</p>
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112	Pg 72 - Clause 12.2.3.3 -13	<p>All the principle equipment's along with input output switchgears, metering, switches(bye pass and tap changers), contactors, fuses, auto transformer coils etc. should be of reputed manufacturers and should meet best engineering practices and norms as applicable in relevant standards; · Auto transformer coil should have full current operating efficiency of better than99% · The total heat dissipation from single coil should not exceed 6 watts-sec/kVAunder fully loaded condition · The rated current of the auto transformer should be for continuous 120% that of input rated current · The switched fuse units should be of 32 Amp continuous AC current capacities. . Fuses used should be of 20 Amp. Rating of high rupturing capacity (S/c current at least 50 kA)</p>	<p>We understand that there is already provision of MCB / Over Current Protection etc. hence there is no need of Fuse unit etc. Further as we are dimming the lights through DALI Control or any other mechanism, Auto transformer is not required. Request to confirm.</p>	<p>Accepted. The functionality should not be affected</p>
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113	Pg 73 - Clause 12.2.3.3 -14	<p>The bidders should always ensure that the System is capable to capture live data and record it at variable time-intervals. Following parameters should be recorded for every 60-120 minutes time interval:</p> <p>Voltage</p> <p>JSCLB Trips.....Σ</p> <p>Alert SMS shall be forwarded to five (5) phone numbers.</p>	<p>All other features are covered under point no 9. Why need separate system for the same. What about JSCLB Trip? Wi-Fi Modem should also be allowed. "SIM Arrangement is the responsibility of Concessionaire or JSCL"</p>		<p>Separate system may not be required, but the parameters mentioned in point no. 9 and point no. 14 should be recorded.</p> <p>SIM arrangement is the responsibility of the concessionaire</p>
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114	Pg 73 - Clause 12.2.3.3 -15	Enclosure Box of feeder panels shall be IP-56 compliant and should be fabricated out of MS sheet SWG 16 / 14 duly powder coated for corrosion resistance and long life. Σ It should have Single Phase power socket for connecting utility tools like drill machine etc. (capacity 1phase 240Vac / 5Amp socket) Σ Utility Service Lamp inside Panel for use during maintenance work Σ Gland Plates for Cable Entry at Incomer and Outgoing Auto Bypass / Tap Changing in lieu of Manual. The tap changing should be automatic between the full voltage and lower voltage for minimum two numbers selected taps.	We would recommend enclosure as SMC/Polycarbonate. Pls clarify.		As per RFP
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115	Pg 73 - Clause 12.2.3.3 -15	Enclosure Box of feeder panels shall be IP-56 compliant and should be fabricated out of MS sheet SWG 16 / 14 duly powder coated for corrosion resistance and long life. Σ It should have Single Phase power socket for connecting utility tools like drill machine etc. (capacity 1phase 240Vac / 5Amp socket) Σ Utility Service Lamp inside Panel for use during maintenance work Σ Gland Plates for Cable Entry at Incomer and Outgoing Auto Bypass / Tap Changing in lieu of Manual. The tap changing should be automatic between the full voltage and lower voltage for minimum two numbers selected taps.	Single Phase power socket is just an exposure for Theft hence should not be allowed. Request to remove this.		As per RFP
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116	Pg 73 - Clause 12.2.3.3 -15	Enclosure Box of feeder panels shall be IP-56 compliant and should be fabricated out of MS sheet SWG 16 / 14 duly powder coated for corrosion resistance and long life. Σ It should have Single Phase power socket for connecting utility tools like drill machine etc. (capacity 1phase 240Vac / 5Amp socket) Σ Utility Service Lamp inside Panel for use during maintenance work Σ Gland Plates for Cable Entry at Incomer and Outgoing Auto Bypass / Tap Changing in lieu of Manual. The tap changing should be automatic between the full voltage and lower voltage for minimum two numbers selected taps.	If Auto Transformer is not required then different taps are also not required. Pls clarify		Accepted. The functionality should not be affected
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117	Pg 73 - Clause 12.2.3.3 -16	The bidder shall have to get the control panels fabricated from the vendor having type test certificate from CPRI for 31 MVA short-circuit rating up to 400 amp for cubical panels. The copy of the type test certificate shall also have to be produced failing which feeder panels shall not be accepted	We understand that In case of SMC / polycarbonate panel, there is no need of the certification. Request to incorporate this in the RFP.		Appropriate short circuit rating will be required, as per the no. of LED luminaire connected to it.
118	Pg 140 - Clause 13.1	In case any penalty is imposed on the Concessioner, the same will be paid by the Concessioner with the next quarterly installment of revenue	Request to kindly elaborate the Penalty Calculations for O&M / Schedule and uptime with an example.		Refer SLA Clause
119	Pg 145 - Clause 14.2.2.3	(100%-Uptime %) of monthly Operational Expense for the component for the year. For example if uptime of component is 95%, then penalty imposed will be 100%-95% i.e. 5% of operational expense for the year.	Kindly elaborate the clause as there is conflict between monthly and yearly Operational expenses.		Read the clause as (100%-Uptime %) of quarterly Operational Expense for the component. For example if uptime of component is 95%, then penalty imposed will be 100%-95% i.e. 5% of operational expense for the quarter.

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120	CL 12.7.2 Page 93	Command and Control Center (CCC) will be located at concessionaires preferred location. The feeds from CCC to be sent to Integrated Command and Control Center (ICCC) of JSCL. Concessionaire can refer the below specification to build CCC but the specification are not binding on Concessionaire.	During Pre RFP, all the bidders discussed on the location of CCC wherein this was clarified that CCC can be located anywhere in India till the time, all functionality is supported and the specification is non-binding to bidder. The relevant feeds can be sent to JSCL and other authority basis their requirement. Request to confirm.		As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP
121	CL 12.7.2.2 Page 93	The solution should have the capability to integrate with existing GIS. If certain layers are not available then the Concessioner should give the details to the owner for creation of the layers	Please Share the existing GIS details to be integrated with Command and control Application. Since GIS already exists, the relevant agency or authority need to upgrade in case of requirement		JSCL will provide the necessary support to integrate with existing GIS

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122	CL 12.7.2.6 Page 93	It shall provide complete view of facilities, sensors, and alarms in an easy-to-use and intuitive GIS-enabled graphical interface with a powerful workflow and business logic engine	We understand that GIS enable view providing the alarms from various element and action taken basis the alarm level is sufficient. Pls confirm.		Component locations to be mapped at existing GIS, the alarms from various element and action taken basis the alarm level will also be requiredIt shall provide complete view of facilities, sensors, and alarms in an easy-to-use and intuitive GIS-enabled graphical interface with a powerful workflow and business logic engine
123	CL 12.7.2.15 Page 93	The solution should maintain a comprehensive and easy to understand audit trail of read and write actions performed on the system	Maintaining audit trail for all read and write actions will have extensive overhead on system and have impact on system. We understand audit trail are maintained for master transaction done by admin. Kindly let us know if our understanding is correct		Understanding is accepted, Log should be recorded for the actions performed.

124	CL 12.7.2.19 Page 94	Mobility: should enable app-based access to monitor alerts, KPI, KOPs, SOPs and reports to mobile users. Should support popularly user's smartphone /tablets. App content should be presented in context to the user role.	Enabling app based access to popular smartphone /tablets is generic in nature. Request to specify the model/android version if any.		Concessionaire has to choose the technology which is compatible to commonly available android versions
125	CL 12.7.4.4 Page 104	IVRS should be modular and scalable in nature for easy expansion without requiring any change in the software	Any scalability shall have additional cost in terms of upgradation.		Accepted
126	Pg 71 - Clause 12.2.3.2 -32	Surge protection: External surge protection of 10 KV to be separately installed with the each fixture	External surge protection for every fixture is not required as this shall have extra cost. This can be provided at smart panel level. Request to confirm.		External surge protection will be required for Intelligent poles, External surge protection is not required for LED street light poles
127	Pg 75- Clause 12.2.6	Conformance standards (Last 3 standards mentioned)	Request to mention equivalent IS also.		As per RFP

128	12.3.2 (18) Page 79	The bidder shall provide capability to transfer recorded images only at the Storage Area Network (SAN) administration terminal where a suitable video printer shall be supplied to create video prints from snapshots of the recorded footage.	We understand that Printer supply shall only be in the scope of the bidder.		Printer supply shall be in the scope of bidder
129	12.7.2(11) Page 93	The solution shall integrate with GIS and map information and be able to dynamically update information on the GIS maps to show status of resources.	Please share us the details of existing GIS System		Concessionaire will update the locations on GIS Map developed by JSCL
130	12.7.4	Contact Center/Helpdesk	During Pre RFP, all the bidders discussed on the location of CCC wherein this was clarified that CCC can be located anywhere in India till the time, all functionality is supported and the specification is non-binding to bidder. The relevant feeds can be sent to JSCL and other authority basis their requirement. Request to confirm.		As per RFP

131	Cl 14.2 Page 144	Service Level Conditions	SLAs shall be applicable only for Service impacting faults Any downtime due to failure of non-scope items shall not be considered for SLA calculations. SLA shall not be applicable during planned maintenance events, not limited to patch/upgrade activities. Pls incorporate.	Accepted
132	Pg 42 - Clause 8.1	The maintenance work includes replacement of faulty material in all street lights, poles, brackets, underground and overhead cables complete accessories in all respects up to the feeder panel.	To maintain the lights, it is important that faulty material in all street lights, poles, brackets, underground and overhead cables including earthing till feeder panel is provided in perfect condition including replacement required by JSCL for the entire concessioner period.	Clause 8.1.1 remains same, As per Clause 8.1.2, post implementation replacement will be done by concessionaire
133	Section - 8, Clause 8.1.3 (page 45)	Guaranteed Energy Savings	No mechanism in relation to the energy savings and payments of electricity bills have been mentioned in the RFP or Concession Agreement and as a revenue to the Concessionaire. Pls elaborate.	Refer Concessionaire Agreement

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134	Section - 6, Clause 6.2 - Performance Security, (Page 33)	Performance Security	It states that the performance guarantee shall be provided before signing of the concession agreement As revenue can be earned only after implementation period of 12 months, the PBG should be provided at the start of revenue monetization.		As per RFP
135	Section 15 - Limitation of Liability, Page 149	Limitation of Liability	Concession Agreement limits the liability to 100% of the quarterly realised revenue while RFP states that it is limited to the 10% of the total amount of revenue realised during 5 years from the go-live date. Please clarify what is the limitation of liability that shall be applicable.		As per RFP & Concession Agreement
136	Section - 16, Liquidated damages, Page 150	Liquidated Damages	LD should not be applicable in an event of delay or upon delay due to gross negligence. Kindly incorporate.		As per RFP & Concession Agreement
137	Form 2 - Financial Bid Format, Section C - Revenue from the Project, Page 184	Financial Bid Format, Section C - Revenue from the Project	The table mentions 2 rows: Revenue Share with JSCL, and Revenue Share with Client. Kindly provide clarity in relation to Client.		Client means JSCL

138	Clause 8.3, 12.4	Optical fiber and Public Wi-Fi	Since the RFP does not mention Fiber route km and no. of APs for Wi-Fi, pls confirm on how the bids shall be evaluated financially as the BOQ of each bidder shall vary.		As per RFP, Already updated
139	Cl 2.2.1.1 Pg 18	As a part of Bid submission, Bidder has to duly propose the RACI Matrix showing responsibility of each consortium. The Bidder must submit its application for change in composition of the Consortium no later than 15 (fifteen) days prior to the Bid Due Date.	Rather mandating RACI matrix, request to provide flexibility for providing responsibility of respective concessionaire partners and vendors		As per RFP
140	Cl 3.3.3 iii Pg 27	iii. rights of Authority or the obligations of the Bidder under the Concession Agreement, or	Please clarify, clause is not clear		Decision on material deviation will be with JSCL, concession agreement bind bidder to provide the material as defined in the RFP
141	Cl 3.3.3 iv Pg 27	iv. Which would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids	Please clarify and share illustrative scenarios if possible		Decision on material deviation will be with JSCL, concession agreement bind bidder to provide the material as defined in the RFP

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142	Cl 7.2.1 - 6.1 Pg 39	The marks will be given on the basis of Education (relevant qualification in the domain), years of relevant experience and number of relevant projects undertaken.	Please detail the minimum qualifications sought to have better clarity on evaluation.	<ul style="list-style-type: none"> • Project Manager (Lead Bidder): BE/ B Tech + MBA, Exp: 10 Years • Smart LED Expert: BE/ Btech Exp: 5 Years • Command & Control Center Expert: BE/ Btech Exp 5 Years • Project Finance Expert: MBA (Finance)/ CA Exp: 5 years • O&M Expert (Lead Member): BE/ B Tech Exp: 8 Years • Surveillance Expert: BE/ B Tech Exp: 5 Years
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143	Cl 8 Page 40	The number of equipment specified in the Bill of Material is minimum and It would be the responsibility of the Concessioner to supply all the required products and equipment (active and passive) which are required to complete and deliver the services at the sites (e.g. There should be seamless roaming and no Wi-Fi dark spots in any site). It would be inclusive of but not exclusive to:	Please explain the "Active" components as we understand this meant only for Wi Fi. Also coverage of Wi-Fi within buildings should be out of scope else request to let us know no. Of Wi-Fi Aps.		RFP Clause is self-explanatory
144	Cl 8 Page 40	Safety – The Concessioner would be responsible for maintaining adequate safety measure at the storage points. Depending upon the availability and suitability, appropriate location for storage would be provided by respective colleges.	Request to provide 1 dedicated place in lieu of multiple colleges.		RFP Clause already updated
145	Cl 8.1.3 Pg 45	JSCL shall assist the Concessionaire for replacement of such meters in coordination with Power Discom.	Cost of replacement shall be JSCL's responsibility		JSCL will assist and help in coordination only

146	Cl 8.11 Pg 55	After "Go-Live" the major modifications or additions in the application shall be done through change management requests.	All such change Management request executed at the request of JSCL shall be at the cost of JSCL only		The futuristic requirements written in RFP will be the part of this project without additional cost. New major additional will be discussed separately by JSL with concessionaire
147	Cl 9 Pg 60 _table	Preparation of the Policy Documents for Use & Operations of Smart City implementation	Does policy document correspond to SOPs? Please clarify		Policy documents corresponds to SOP, user manuals, Report formats, Testing procedure and escalation matrix etc.
148	Cl 10.4 Pg 62	Exclusive RoW of street light poles for installing dual side backlit advertisement billboard	This need to be covered for Non Lit Billboards as only lit board shall consume enormous electricity charge which may be a burden for monetization.		Accepted, Lit and Nonlit boards can be used as per the requirements

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149	Cl 13.1 Pg 140	Concessioner to pay the relevant taxes to the Government which would occur while generating the revenue	Please define the taxes.		Concessionaire shall bear all personnel taxes levied or imposed on its personnel, or any other member of partnership, etc. on account of payment received under the Contract. Concessionaire shall bear all corporate taxes, levied or imposed on concessionaire on account of payments received under this project. The concessionaire shall bear all taxes and duties etc. levied or imposed on the concessionaire under the Contract including but not limited to Customs duty, Excise duty and all Income Tax levied under Indian Income Tax Act - 1961 or any amendment thereof up to the date
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					<p>for submission of final price bid, i.e., on account of payments received by him under the Contract. The concessionaire shall also be responsible for having his Sub-Contractors under its Sub-Contract(s) to pay all applicable taxes on account of payment received by the Sub-Contractors from the concessionaire for works done under the Sub-contracts in relation to this Agreement and JSCL will in no case bear any responsibility for such payment of taxes.</p>
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150	Cl 14.1 Table Point 1 Pg 142	Inspection report from authentic third party	3rd Party Inspection cost should be borne by authority.		Accepted, JSCL or JSCL associated third parties will do the inspection
151	Cl 14.1 Table Point 6 Pg 143	Inspection to be done by Client followed by submission and approval of Satisfactory Working Inspection Report	Please specify what is meant by 'Client' in the context of this clause		JSCL is the Client in the context of this clause
152	Cl 14.2 Page 144	1% per week for the undelivered supply/services	Kindly define the mechanism of contracts value of undelivered portion?		Read the "Penalty% on the contract value" as "Penalty %". In case any penalty is imposed on the Concessionaire, the same will be paid by the Concessionaire with the next quarterly installment of revenue
153	Cl 14.2 Page 144	Penalty% on the contract value	What is meant by Contract Value? Please elaborate.		Read as "Penalty %" only

154	Cl 14.2.2.1 Pg 145	< 95%: (100%-Uptime %) of monthly Operational Expense for the component for the year. For example if uptime of component is 95%, then penalty imposed will be 100%-95% i.e. 5% of operational expense for the year	1) How would one identify monthly opex for the component? 2) Example says 95% while point 1 in the table says >= 95% is exempt from penalty. Please clarify		Read the clause as (100%-Uptime %) of quarterly Operational Expense for the component. For example if uptime of component is 95%, then penalty imposed will be 100%-95% i.e. 5% of operational expense for the quarter.
155	Cl 14.2.2.2 Pg 145	In case throughput falls below the guaranteed level, JSCL will be impose the penalty of Rs.2000/- (Rupees two thousand) per instance per location in additional to SLA and Penalty.	Please clarify if any penalty led by an event attributable to JSCL shall be waived off.		Penalty led by an event attributable to JSCL shall be waived off.
156	Cl 14.2.2.3 Pg 145	(100%-Uptime %) of monthly Operational Expense for the component for the year. For example if uptime of component is 95%, then penalty imposed will be 100%-95% i.e. 5% of operational expense for the year.	1) Example is different from penalty matrix. Please Check 2) How would opex be defined		Read the clause as (100%-Uptime %) of quarterly Operational Expense for the component. For example if uptime of component is 95%, then penalty imposed will be 100%-95% i.e. 5% of operational expense for the quarter.



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157	Cl 14.2.2.4 Pg 146	No Penalty. Post that 0.01% of Opex for every call not responded.	What is the basis of identification/quantification of Opex mentioned in this clause	Opex to be referred as operational expense for the quarter.
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158	Cl 17.2 Pg 151	All risk in and title to the Assets to be transferred to Client on the last day of the exit management period. All expenses incurred during transfer of assets shall be borne by the Successful Concessioner.	Does all expenses in this clause means inclusive of or exclusive of taxes?		Concessionaire shall bear all personnel taxes levied or imposed on its personnel, or any other member of partners, etc. on account of payment received under the Contract. Concessionaire shall bear all corporate taxes, levied or imposed on concessionaire on account of payments received under this project. The concessionaire shall bear all taxes and duties etc. levied or imposed on the concessionaire under the Contract including but not limited to Customs duty, Excise duty and all Income Tax levied under Indian Income Tax Act - 1961 or any amendment thereof up to the date
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					<p>for submission of final price bid, i.e., on account of payments received by him under the Contract. The concessionaire shall also be responsible for having his Sub-Contractors under its Sub-Contract(s) to pay all applicable taxes on account of payment received by the Sub-Contractors from the concessionaire for works done under the Sub-contracts in relation to this Agreement and JSCL will in no case bear any responsibility for such payment of taxes.</p>
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159	Cl 17.2 Pg 152	As Concessioner is supposed to provide 15 years of comprehensive maintenance of all the hardware/Software as detailed in RFP, Concessioner must ensure that all the items are in working condition with support of OEM related to repair/replacement/availability of spare parts for at least 05 years at the time of exit.	Please clarify if this shall be 14 years of O&M since 1 year is for project implementation. Also pls provide list of spare requirements for 05 years to include in financial bid.		Concessionaire has to anticipate the qty of spares to be used during O&M period
160	Form 6 Pg 163	Project Citation Format	Do we need to provide costs? Also, what are the components of Cost?		Citation to be for the major projects done, project done under smart city and the work nature mentioned under technical evaluation criteria. Project Cost should be provided.

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161	Cl 18.2 1 Pg 180	This amount is inclusive of the local taxes.	Since taxes are not under the purview of the bidder and are subject to change, the amount can only be exclusive of taxes and taxes would be shown for representative purposes		Concessionaire shall bear all personnel taxes levied or imposed on its personnel, or any other member of partners, etc. on account of payment received under the Contract. Concessionaire shall bear all corporate taxes, levied or imposed on concessionaire on account of payments received under this project. The concessionaire shall bear all taxes and duties etc. levied or imposed on the concessionaire under the Contract including but not limited to Customs duty, Excise duty and all Income Tax levied under Indian Income Tax Act - 1961 or any amendment thereof up to the date
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162	Form 2 Pg 182	Financial Bid Format	If no grant is sought, bidder need not to fill up the costs. Kindly confirm.	Accepted, as no grants will be shared
163	Form B Pg 183	Operations and Maintenance cost for 14 years	If authority is willing to provide grant for O&M expenses as well? If not then the information is not required to be mentioned in the bid.	Information will be required
164	Form C Pg 184	The NPV will be calculated as; $o 1/(1+rd)^n$, where rd is the discounting factor and n is year of calculation	The formula for NPV is incorrect, needs updating	As per RFP
165	Cl 12.7.3.1 Pg 101	Solid state LED illumination technology	Laser Light Source is the latest, should be changed to Laser	Laser light source is also accepted

166	Smart LED Board Display Specs	Smart LED Board should be 6mm pixel pitch based 3-in-1 SMD. Should have calibrated brightness of Minimum 5500 cd/m2 with Auto- Brightness Sensor, Minimum Contrast Ratio: 2000:1, Outdoor Fully Weatherproof having IP65 Front Protection and IP54 Rear of Total Smart LED Board Wall Size should be minimum 0.96m (Wide) x 1.2m (Height) having 27777 pixels/sq. mtr, Viewing Angle 140 deg H / 90 deg V, Refresh Rate of 960Hz, Temp Range -20 deg - 50 deg, Max. Power Load 1500W/per system below 100 Kgs total weight. Service Access: Rear, Lifetime: 1, 00,000 Hrs with DVI Input Signal. Should have UL, CB, CE, and FCC Certifications.	Smart LED Board should be 6mm pixel pitch based 3-in-1 SMD. Should have calibrated brightness of Minimum 5500 cd/m2 with Auto- Brightness Sensor, Minimum Contrast Ratio: 2000:1, Outdoor Fully Weatherproof having IP65 Front Protection and IP54 Rear of Total Smart LED Board Wall Size should be minimum 0.96m (Wide) x 1.2m (Height) having 27777 pixels/sq. mtr, Viewing Angle 140 deg H / 90 deg V, Refresh Rate of 960Hz, Temp Range -20 deg - 50 deg, Max. Power Load 1500W/per system below 100 Kgs total weight. Service Access: Rear, Lifetime: 1,00,000 Hrs with DVI Input Signal. Should have UL, CB, CE, and FCC Certifications		Smart LED board based on the given specs are accepted
167	Smart LED Controller & Power Distributor	Suitable LED Controller along with PLC based Power Distributor to be provided for Each LED Display to switch on/off from central control room	Suitable LED Controller along with PLC based Power Distributor to be provided for Each LED Display to switch on/off from central control room		Accepted

168	8.13 Page-57	Operations and Maintenance	Will the SLAs calculated with preventive and scheduled maintenance as informed in the maintenance manual given to JSCL?		As per RFP
169	8.8.1, Page-53	Partial Acceptance Test	Would Partial acceptance be carried out per pole basis or based on some minimum qty. If yes, what is the minimum qty.? If No, Please clarify		JSCL reserves right to conduct physical inspection
170	8.10, Page-54	Helpdesk	Help desk is required after T+54weeks. Please confirm		Creating CCC and helpdesk will be the parallel activity with intelligent pole implementation
171	8.12, Page-56	<ul style="list-style-type: none"> • Concessioner will get the training and capacity building strategy including training material finalized with JSCL before starting the training programs. • Concessioner will prepare all the requisite audio/visual training aids that are required for successful completion of the training for all stakeholders. These include the following for all the stakeholders: 	Please confirm the Scope of training in terms of Man-days/ Batches/No. of People.		As per RFP

172	8.1.3, Page- 45	After replacement of existing street light with energy efficiency LED street light minimum 35% of energy saving should be mandatory.	If some of the existing street lights are not in working condition-1- How energy saving can be evaluated? 2- How SP will submit it to JSCL store in working condition? 3- What will be the procedure to certify that a particular street light is not in working condition? 4- Who will borne the cost of replacement of defective meters?		Refer RFP and concessionaire agreement doc.
173	8.1.1, Page-42	The Concessioner needs to retrofit the aforementioned luminaires, other than LED, with LED luminaires and make the entire street lights smart. Each and every LED should be monitored and controlled from the Command and Control Center with the aid of a centralized software.	There are following queries on this- 1. If existing fixture is defective then how luminaire will be retrofit? 2- Who will borne the cost if luminaire needs to be replaced? 3- If, for some of the luminaries retrofit solution/ product not available in market or the available solution is not reliable then fixture needs to be replace? Who will decide the same? Who will borne the cost for the same?		Scope of work clearly defines the requirement

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174	Generic Query		It may be possible that some of the existing street light pole are defective or non-workable/ suitable for SP working. JSCL should be responsible for their replacement/repair as per need and costs of the same		Scope of work clearly defines the requirement
175	12.4, Page-80	Public Wi-Fi	Location of Wi-Fi and coverage area required to estimate the Foot fall for forecasting the revenue to be provided. RFP mentions the locations but we would need maps of the location. This would help us arrive at the best estimate of revenue		locations will be provided post bidding
176	12.1, Page-66	Intelligent Pole	We would require Maps indicating the locations where street lights needs to be changed and smart poles to be installed for estimate on fiber route requirement.		locations will be provided post bidding
177	Generic Query	Obligations of the City have not been specified.: We would request youth incorporate the following as obligation of City for Fiber	Exclusive ROW (Right of way) free of cost for laying of fiber will be provided by the Authority within Municipal limits. This right shall be available for the duration of the contract (15 Years).		ROW free of cost will be provided for cable laying for the components mentioned in RFP.

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178	Section 10.5	Fiber	The fiber so laid in this ROW can be monetized by the Bidder at his discretion and at rates which the Bidder deems fit.	JSCl will have the rights to approve
179	Section 10.5	Fiber	Apart from ROW permissions if any other permission is required for lying of fiber then Authority shall be responsible for obtaining the same from relevant authorities.	JSCl will facilitate for the coordination between the concessionaire and relevant authorities
180	Section 10.5	Fiber	While laying the new fiber if any other fiber is cut laid by utility which is already existing in the place where new fiber is being laid then JSCl will liaison with the other party to provide a window of eight hours for rectification during the laying phase and six hours during the maintenance phase. During this period there will be not be any penalty to the Bidder. Similarly if any other entity cuts the fiber inadvertently which belonging to Bidder. JSCl will get the Bidders fiber rectified back to normalcy with in a period of	Concessionaire will have to manage such cases



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			8 hours during implantation phase and six hours in the maintenance phase.	
181	Section 10.1	Smart Pole	<p>Concessionaire will have the exclusive right of way, free of cost, for telecom site (all types) deployment in area of JSCL and it shall lease out the sites to telecom operators on a non-discriminatory basis. Hence it should be IP1 registered</p> <p>This right shall be available for the duration of the contract (15 Years) to the Bidder.</p>	JSCL have the rights to decide on this post bidding

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182	Section 10.1	Smart Pole	JSCL will inform all USAL providers that they need to approach the concessionaire for obtaining right of way for deploying telecom sites in future in JSCL area.	JSCL have the rights to decide on this post bidding
183	Section 10.1	Smart Pole	In order to make Jabalpur as a Smart City it is envisaged to reduce the visual pollution and removal of Telecom Sites from Residential Area Concessionaire will collect the site rentals from USAL providers. The rental calculation mechanism for 15 year period will be quoted by concessionaire as part of the bid and shall be part of financial evaluation by JSCL.	JSCL have the rights to decide on this post bidding
184	Section 10.1	Smart Pole	JSCL will ensure that all telecom sites deployed presently by USAL providers without the approval of JSCL will be shifted to Smart Poles.	JSCL have the rights to decide on this post bidding
185	Section 10.1	Smart Pole	In the event Authority fails to adhere to issue the necessary Governmental notification/ by-law, Authority shall compensate the Bidder by an amount as	JSCL have the rights to decide on this post bidding

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			Indicated in the contract by the Bidder.		
186	Section 10.3	Wi-Fi	Exclusive ROW, free of cost, for provisioning of Wi-Fi Services to be provided by the Authority with in Municipal limits. This right shall be available for the duration of the contract (15 Years).		As per RFP and Concessionaire Agreement
187	Section 10.3	Wi-Fi	Concessionaire shall have exclusive the right to earn revenue on account of usage of Wi-Fi beyond the free period of 20 Minutes per day		As per RFP and Concessionaire Agreement
188	Section 10.3	Wi-Fi	Concessionaire shall have exclusive right to earn revenue account of advertisement through Wi-Fi.		As per RFP and Concessionaire Agreement
189	Section 10.4	Advertisement Rights	Authority shall provide exclusive advertisement rights to the Bidder to earn revenue out of advertisements, digital signage, WIFI, Conventional Bill Boards etc. from the supply made for this project.		As per RFP and Concessionaire Agreement

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190	Section 9.1	Coordination Support	Authority shall coordinate with other governmental departments if any required for faster implementation of this Project. Such delays shall be excused from Bidders performance without any penalty.	JSCL have the rights to decide on this
191	Section 9.1	Other support from JSCL	Authority shall provide warehousing support in Jabalpur	JSCL will provide the land for warehousing
192	Section 9.1	Other support from JSCL	Authority will provide uninterrupted electricity free of cost to the Bidder for the smart poles, surveillance camera and Wi-Fi access points, cellular base stations, EV charging point, Environmental sensors and any other device which is the part of the RFP. Please note that the purpose of Energy Saving calculations, the electricity consumed for the aforementioned devices shall not be taken in to account.	As per RFP and Concessionaire Agreement
193	Section 9.1	Other support from JSCL	Necessary meters shall be provided by Authority	As per RFP

194	Section 9.1	Other support from JSCL	In the event of electricity not being made available the same shall not affect the Bidder's SLA and no penalty will be imposed.		As per RFP
195	Section 9.1	Other support from JSCL	In case there are overhead cables exiting between street lights the same will be made underground by Bhopal Municipal Corporation.		JSCL will made it underground
196	12.7.5.4 Firewall, Clause # 3	Encrypted throughput: minimum 1 Gbps	Considering 100000 connections and 2000 tunnels, 1Gbps is going to be very high and would increase the cost of overall Solution. Hence we request you to change this to 300 Mbps.		Refer RFP , Clause 12.7 is updated
197	12.7.5.4 Firewall, Clause #4	Routing Protocols	Please include IPV6 routing protocol like OSPF V3, BGP V6 and PBR. These protocols are required to address the use cases in future.		Refer RFP , Clause 12.7 is updated
198	12.7.5.4 Firewall, Clause # 7	QoS features	Firewall is at the perimeter of the network and DSCP marking is done at the end device/point or switch and firewall is expected to preserve the marking so that it can be passed to the external devices. Hence we requested this change. Please		Refer RFP , Clause 12.7 is updated

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			change differentiated services to differentiated services/preservation.		
199	12.7.5.5 IPS, Clause # 2	IPS system should be able to protect Multi Segment in the network, should be able to protect 4 segments.	For hardware appliance only- IPS system should be able to protect Multi Segment in the network, should be able to protect 4 segments. In case of software module in the firewall, it will not be possible to have four segment. In fact all the traffic entering the firewall can be configured to be inspected by using threat policies.		Refer RFP , Clause 12.7 is updated

200	Page 69 – Point 12.2.3.1 – Point no. 2	Smart Street Light Solution	Point no. 12.2.3.1 – Point no. 2 –” The smart street lighting system should preferably be communicating using WIFI technology. Other allowed technologies can be ZigBee, LoRA, IEEE 802.15.4, UNB, Star topology, RF Mesh/DALI interface etc. “. GPRS / GSM based communication to be allowed. If Group control is desired then RF based communication is not required. And need not be allowed as discussed during EOI presentation		Refer RFP, 8.1 Scope of work is updated for group control mechanism.
201	Page 69 – Point 12.2.3.1 – Point no. 6	Smart Street Light Solution	The software should have the capability to apply policies to the smart lighting system. Example: set up policies like light up alternate lights during low traffic density, increase the luminosity of the lights as per the dullness of the day lights “Policy of alternate Light ON is not recommended as it will cause Zebra effect and may be one of the reasons for accidents on roads. Secondly it will violate the		Accepted

			requirement of Uniformity of 0.4 as per IS 1944		
202	Page 69 – Point no. 12.2.3.2 - Point no. 7	LED Luminaire	Power factor of > 0.9 should be allowed		Accepted
203	Page 69 – Clause 12.2.3.2 Point 12	LED Luminaire	Point no 12- Voltage range 120V to 270V & Surge protection of 6kV. Request for Voltage range from 140V to 270V & Surge protection of 4kV as the lum will also have 10kV/KA extra protection in CM/DM mode		Accepted
204	Page 144 – Point no. 14.2.2.3	SLAs for Smart LEDs and Smart Surveillance	Uptime >99.5%. – Need clarification of Uptime calculations. Downtime due to other reasons such as Power Availability or reasons beyond the control of LED Luminaire manufacturer should not be considered for calculation of Uptime. Secondly Uptime		Concessionaire has to maintain uptime as described in RFP

			SLA is quite stringent request to reconsider and provide relaxation on this front		
205	Section 10	Street Parking Violation	· Authority shall provide exclusive right to Concessionaire for earning revenue on account of Parking Violation.		As per RFP
206	Clarification no. 354 and 355 and 359	Additional : Gartner Clause	These restrictions are added post bid release. Unless there is a strong justification, these clauses should be removed		As per RFP
207	CL 8, Page 37	Scope - Command and Control center (with DC and DR)	DR is not recommended for such requirement as it will have huge cost impact please clarify		As per RFP
208	Generic Query	Command and Control Center (CCC)	Please specify the number of seats required in command and control center for JSCL day to day operation		Concessionaire has to decide on CCC infrastructure, However the CCC infra can be equivalent to the specification given in RFP

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209	CL 12.7.2 Page 92 to 101	The feed of said Command & Control center shall be provided to JSCL's Centralized Command & Control Center.	It is understood that Command and control center feed will be going to JSCL's Centralized Command & Control Center and will run the similar operation as mentioned under clause RFP 12.7. So this will have duplicate cost if functionality mentioned in 12.7.2 section is also in built in local command and control center. So we suggest to keep local command and control center with video wall, respective Element Management system such as LED, Surveillance, Environmental Sensor, and helpdesk. And necessary feed of the same is to be sent to JSCL's Centralized Command & Control Center. pls clarify		As per RFP, refer updated clause 12.7
210	CL. 12.7.4 Page 104	Contact Center/Helpdesk	Helpdesk minimum technical specification mentioned under 12.7.4 should not be binding as this may be complex solution and require specialized agent to operate. So we suggest to have helpdesk with Toll-free with IVR based ACD solution		As per RFP, refer updated clause 12.7

			to meet the functional requirement. pls clarify		
211	CL 12.7.2 Page 93	The solution should maintain a comprehensive and easy to understand audit trail of read and write actions performed on the system	Helpdesk minimum technical specification mentioned under 12.7.4 should not be binding as this may be complex solution and require specialized agent to operate. So we suggest to have helpdesk with Toll-free with IVR based ACD solution to meet the functional requirement. pls clarify		Log should be recorded for the actions performed.
212	CL 12.7.2 Page 94	Mobility: should enable app-based access to monitor alerts, KPI, KOPs, SOPs and reports to mobile users. Should support popularly user's smartphone /tablets. App content should be presented in context to the user role.	Enabling app based access to popular smartphone /tablets is generic. Pls specify the model/android version as they keep changing.		Concessionaire has to choose the technology which is compatible to commonly available android versions

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213	Generic Query	For Fiber: ·	Exclusive ROW (Right of way) free of cost for laying of fiber will be provided by the Authority within Municipal limits. This right shall be available for the duration of the contract.	As per RFP and Concession agreement. JSCL has rights to decide on this post bidding
214	Generic Query	For Fiber: ·	The fiber so laid in this ROW can be monetized by the Bidder at his discretion and at rates which the Bidder deems fit.	As per RFP and Concession agreement. JSCL has rights to decide on this post bidding
215	Generic Query	For Fiber: ·	Apart from ROW permissions if any other permission is required for lying of fiber then Authority shall be responsible for obtaining the same from relevant authorities.	Jack will facilitate for the coordination between relevant authority and concessionaire
216	Generic Query	Wi-Fi Access point	Exclusive ROW, free of cost, for provisioning of Wi-Fi Services in Jabalpur to be provided by the Authority with in Municipal limits. This right shall be available for the duration of the contract.	As per RFP
217	Generic Query	Wi-Fi Access point	· Concessionaire shall have exclusive the right to earn revenue on account of usage of Wi-Fi beyond the free period of 20 Minutes per day	As per RFP

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218	Generic Query	Wi-Fi Access point	· Concessionaire shall have exclusive right to earn revenue account of advertisement through WIFI.		As per RFP and Concessionaire Agreement
219	Generic Query	Advertisement Rights	Authority shall provide exclusive advertisement rights to the Bidder to earn revenue out of advertisements, digital signage, WIFI, Conventional Bill Boards etc. from the supply made for this project.		As per RFP and Concessionaire Agreement
220	Generic Query	Street Parking Violation	· Authority shall provide exclusive right to Concessionaire for earning revenue on account of Parking Violation.		As per RFP and Concessionaire Agreement
221	Generic Query	Other Support	· Authority shall provide warehousing support in Jabalpur.		JSL will provide the land for warehousing
222	Generic Query	Other Support	· Authority will provide uninterrupted electricity free of cost to the Bidder for the smart poles, surveillance camera and Wi-Fi access points, cellular base stations, EV charging point, Environmental sensors and any other device which is the part of the RFP. Please note that the purpose of Energy Saving calculations, the		As per RFP and Concessionaire Agreement

			electricity consumed for the aforementioned devices shall not be taken in to account.		
223	Generic Query	Other Support	· Necessary meters shall be provided by Authority		As per RFP and Concessionaire Agreement
224	Generic Query	Other Support	· In the event of electricity not being made available the same shall not affect the Bidder's SLA and no penalty will be imposed.		As per RFP and Concessionaire Agreement
225	Page 42 Clause 8.2	Wi-Fi shall be free for the first 45 Minutes per Mobile subscriber per day or 20MB per day and an aggregate limit of 700 MB per month whichever is achieved first beyond that it is chargeable.	As envisaged in other tenders, free Wi-Fi to be for the first 10 Minutes per Mobile subscriber per day or 50MB per day and an aggregate limit of 200 MB per month whichever is achieved first beyond that it should be chargeable.		Read the clause as "Wi-Fi shall be provided free for 20 minutes with maximum download limit of 50 MB per day and an aggregate limit of 200 MB per month whichever is achieved first beyond that it is chargeable."

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226	Page 42 Clause 8.2	For implementing the same the Concessionaire will carry out survey at these 42 locations and will deploy the access points as required for providing the Wi-Fi services.	As discussed in prebid, the Wi-Fi coverage should be limited to 100 mtr diameter of the each location. Kindly incorporate.		Accepted, the Wi-Fi coverage should be limited to 100 mtr diameter of the each location. Kindly incorporate.
227	Page 48 Clause 8.3	Out of the 48 core fiber 4 cores of fiber would be provided to JSCL for its internal purposes (For converging other Governmental Projects).	As JSCL need 4 core fiber, the bidder should be allowed to lay any number of core of fiber or may take fiber on lease for fulfilling requirement of JSCL.		As per RFP and Concessionaire Agreement
228	Page 49 Clause 8.3	The total length of the optical fiber will be 200 kms and will go up to all last mile connectivity as proposed in this RFP document.	As discussed in prebid, the length of fiber should be limited to 50 kms and flexibility should be provided to bidder to lay fiber beyond this limit as pre-requirement of tender.		As per RFP and Concessionaire Agreement
229	Page 49 Clause 8.3	For implementation, Concessionaire can use MPLS or any other network topology for deploying the smart elements as mentioned in this RFP document.	The bidder should be given flexibility to design their own network or take the network on lease till it fulfills the requirement of JSCL.		As per RFP and Concessionaire Agreement
230	Page 49 Clause 8.3.1	Under this project all Government offices, Street Infra with Smart Components etc. shall be connected as part of the	As discussed in prebid, we request to provide list of locations of government offices for fiber feasibility.		The offices comes under JMC will be connected through optical fiber cable. Locations are

		scope of this project			attached with the corrigendum
231	Page 40 Clause 8	The Concessionaire has to deploy at least 200 intelligent poles in the project. The	As discussed in prebid, since this is a PPP model tender, bidder should be given flexibility for installing 50 intelligent pole as part of obligation to showcase capability of pole.		As per RFP
232	Page 66 Clause 12.1	Pole Height requirement is 12 meters. 10 % of the total no. of poles can be of 25 meters.	Since the pole height requirement of 25 mtr need to be installed basis requirement of telecom operator, we request to provide exclusive ROW for installing such pole and any requirement emerging from telecom operator should be given to the winning bidder. Further the quantity should be flexible and not limited to 10%.		As per RFP
233	Clause 8.1		Power Infra deficiency must be firmly in scope of city- to be handed over in good shape and all repairs to be done by city or reimbursed to concessionaire		Clause 8.1.1 remains same, As per Clause 8.1.2, post implementation replacement will be done by concessionaire

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234	Clause 8.1		Quality of power to be assured, any consequent damage to be borne by city - replacement of SPD, meter, luminaire that get burnt out.		Clause 8.1.1 remains same, As per Clause 8.1.2, post implementation replacement will be done by concessionaire
235	Clause 8.1		Is it responsibility of the bidder to maintain the underground and overhead cables till feeder panel		Clause 8.1.1 remains same, As per Clause 8.1.2, post implementation replacement will be done by concessionaire

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236	Clause 8.1		<p>Please confirm how the underground faulty cables to be identified, as the same is to be maintained for 15 years. It is proposed to remove all cable faulty Scope (Overhead, Underground and cables from Luminaire to Junction Box) from Bidder scope.</p>	<p>Concessionaires are expected to carry out necessary field surveys to verify the status of switching points, physical installations, geographic area covered and scope of the project defined so as to fully satisfy themselves on the existing field conditions and their scope. They will also be responsible for reviewing the baselines established pursuant to Energy Audits completed recently and satisfy themselves on the scope and feasibility of the project implementation for Feeder panel and Smart LED light fixtures. JSCL will decide on concessionaire proposal post survey.</p>
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237	Clause 8.1		Smart lighting specs as per NLC is not feasible. Kindly amend the same.		As per RFP
238	Clause12.2.3		Please mention the capacity of capacitor bank to maintain Power factor of .90		Concessionaire has to design and propose the feeder panel specification to maintain the PF
239	Clause12.2.3		Please confirm is the LED Luminaire controller mean the CCMS(Centrally controlled management System)/Gateway present at the Feeder Panel Level		Concessionaire has to define the solution architecture, as per the scope of work functionality should be matched.
240	Clause12.2.3		Street Light ON/OFF/Dim can be achieved through the Central Management Software basis fixed time, is that still requirement of keep some extra devices/Sensors to achieve the same functionality basis sunrise time generations		Fixed time based control will be accepted
241	Clause 8		Future smart city interventions - transport, traffic, panic sensor, water sensor is not clear in scope if these have to be provisioned in CCMS also.		Provisions at CCC software will be required
242	Clause 12.3.2		How many days of Video storage is required		30 days video storage will be

					required
243	Clause 12.3.2		Please elaborate what all rules are required to integrated with the VMS		<p>Flexible rule based system means the flexibility to manage rules to generate alerts in case of any event detected.</p> <p>VMS shall be enabled for integration with any external Video Analytics Systems The analytics will be used to detect</p> <ul style="list-style-type: none"> • Parking Violation • Crowd Detection
244	Clause 12.3.2		Please elaborate what all Video Analytics are required to integrated with the VMS		<p>Flexible rule based system means the flexibility to manage rules to generate alerts in case of any event detected.VMS shall be enabled for integration with any external Video Analytics Systems The analytics will be used to detect</p> <ul style="list-style-type: none"> • Parking Violation • Crowd

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					Detection
245	Clause 12.3.2		Please elaborate all the third party systems and Sensors to check feasibility of integration with VMS		<p>Flexible rule based system means the flexibility to manage rules to generate alerts in case of any event detected.</p> <p>VMS shall be enabled for integration with any external Video Analytics Systems The analytics will be used to detect</p> <ul style="list-style-type: none"> • Parking Violation • Crowd Detection

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246	81	Clause # 23	Controller should support DES, 3DES and AES-128 and AES-256 encryption, with site-to-site and client-to-site VPN capabilities; should have provision to supports IPSEC tunnels	Site to site and client to site VPN is not required in such deployments. Request you to change it so all leading OEM's can participate. Clause should be read as "Controller should support AES-128 and AES-256 encryption, with provision to supports GRE/IPSEC tunnels"	Accepted
247	81	12.4.1.2 Clause # 4	The AP should be able to handle security, mesh, , RF Management, QOS , roaming, local forwarding without the need for a controller so as to increase performance of the WLAN network	Please remove this clause. This is not desired and recommended feature to configure each AP as standalone. WLC manages centralized configuration for each AP in one go.	Accepted

248	81	12.4.1.2 Clause # 11 Antenna Characteristics	Internal Antenna Gain 2.4 GHz-2.5 GHz : 4 dBi 5.150 GHz- 5.875 GHz : 5dBi	Please change this clause to "integrated antenna gain 2.4 GHz-2.5 GHz : 3 dBi 5.150 GHz- 5.875 GHz : 3dBi". Integrated antenna based AP's has better life and performance doesn't degrade in long run due to dust or water seepage in antenna connectors. External/integrated Antenna Gain. Also radio tx power and antenna gain should not exceed EIRP.	Refer the specification provided in Corrigendum 1
249	82	12.1.4.2 Clause # 29	AP shall provide external antenna options	AP shall provide variety of RF coverage options like Omni and directional coverage through integrated antennas.	External antenna will be allowed

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250	81	12.1.4.2 Clause # 3	The Access Point should have single 10/100/1000 Ethernet interfaces	2 Eth ports are always advantage in such deployments. It is supported by all leading OEM's also. Suggest to change it to 2 Eth ports.	Refer the specification provided in Corrigendum 1
251		12.4.1.2		AP should have directional coverage option and minimum 35 poles should be planned for 360degree coverage through directional coverage AP's for more coverage and performance.	As per RFP & Corrigendum 1
252	11. Common guidelines/comments regarding the compliance of equipment/systems	New Addition	All OEMs should feature in the Gartner's Magic Quadrant Report in Leader's Quadrant. The reports applicable are as follows: Network : Gartner Magic Quadrant for Wired and Wireless LAN Servers : Gartner Magic Quadrant for Servers Wireless : Gartner Magic Quadrant for Wired and Wireless LAN	Gartner is a world renowned report and is heavily relied upon to ensure that the best quality products feature in the solution asked in the RFP. Multiple cities in India have asked for the Gartner Report as the OEM Pre-qualification criteria and have been	As per RFP

				successful in their intent. In the interest of the overall solution of JSCL, it is our request that this be inserted as one of the OEM pre-qualifications.	
253	1.1 L2+ 8 Ports Managed PoE Switch	The existing specifications of the L2 + 8 Port Managed PoE Switch do not have any OEM complying. Therefore request you to kindly refer to the specifications mentioned in the earlier RFP volume. The features asked are not part of the industrial Ethernet switches but enterprise data center and campus switches. Request you to kindly move to the older specifications. The same are attached as Annexure A for your reference.	The existing specifications of the L2 + 8 Port Managed PoE Switch do not have any OEM complying. Therefore request you to kindly refer to the specifications mentioned in the earlier RFP volume. The features asked are not part of the industrial Ethernet switches but enterprise data center and campus switches. Request you to kindly move to the older specifications. The same are attached as Annexure for your reference.	The existing specifications of the L2 + 8 Port Managed PoE Switch do not have any OEM complying. Therefore request you to kindly refer to the specifications mentioned in the earlier RFP volume. The features asked are not part of the industrial Ethernet switches but enterprise data center and campus switches. Request	Refer the specification provided in Corrigendum 1

				you to kindly move to the older specifications. The same are attached as Annexure for your reference.	
254	Section - 12.7.5.6 Application / Database/ Recording / Viewing / Other Servers	Internal Storage 2x300 GB SAS / SATA (10k rpm) hot swap disk with extensible bays	Internal Storage 2x300 GB SAS / SATA (10k rpm) hot swap disk	For Blade Servers with 2 processors,maximu m 2 Nos of HDD bays are possible. Therefore this clause should only be meant for Rack Servers.	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP

255	Section - 12.7.5.6 Application / Database/ Recording / Viewing / Other Servers ;	Network interfaceDual Integrated Gigabit Ethernet ports (10 G ports may be required/provided for certain types of servers)(Minimum 2 Integrated Gigabit Ethernet ports)Optional : Fiber channel adapter (if required)	Network interfaceDual Integrated Gigabit Ethernet ports (10 G ports may be required/provided for certain types of servers) (Minimum 2 Integrated Gigabit Ethernet ports) Optional: Fiber channel adapter (if required). Equivalent solution can be provided using FCoE standard.	Please allow bidders to propose for an equivalent solution using FCoE (converged FC and Ethernet) for blade chassis for allowing maximum participation. The FCoE based solutions provides benefits like - reduced device footprints, simplified operations and manageability. reduced power and cooling and low latency	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP
256	Section - 12.7.5.6 Application / Database/ Recording / Viewing / Other Servers ;	Operating System : Licensed version of 64 bit latest version of Linux/ Unix/Microsoft® Windows based Operating system)	Clarification. Please clarify if Unix operating system is required to be supported only in case bidder is offering EPIC or RISC based servers?	Please clarify if Unix operating system is required to be supported only in case bidder is offering EPIC or RISC based servers?	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and

					control center infrastructure should have the similar or better set up as defined in RFP
257	Section - 12.7.5.8 SAN Switch	Zoning & Security - Support for FCAP authentication	Zoning & Security - Support for FCAP/FCP authentication	There are only two vendors for SAN switches in the industry. FCAP is specific to one vendor. The other vendor provides equivalent functionality through FCP (Fiber Channel Security protocol) for switch-switch and host-switch authentication. Therefore please allow FCSP as an option to FCAP	Accepted

258	Section - 12.7.5.7 Storage Specifications	Concessionaire is expected to provide Unified storage solution (or a Combination of NAS/Scale-out NAS/SAN) supporting all required protocols (IP Based / iSCSI / FC / NFS /CIFS etc.) For the offered storage solution, meeting benchmark performance parameters specified in SLA• Solution proposed should yield low cost per TB, while meeting the performance parameters• Licenses for the actual protocols used in the storage solution must be provided from day 1.	Concessionaire is expected to provide Unified storage solution (or a Combination of NAS/Scale-out NAS/SAN) supporting all required protocols (IP Based / iSCSI / FC / NFS /CIFS/FCoE etc.) For the offered storage solution, meeting benchmark performance parameters specified in SLA• Solution proposed should yield low cost per TB, while meeting the performance parameters• Licenses for the actual protocols used in the storage solution must be provided from day 1.	It's requested to allow for Protocols FC or FCOE for offered storage solution. <u>Justification:</u> This will allow max. Participation in case bidder wants to propose FCoE based storage solution.	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP
259	12.4.1.1 WLAN Controller	The proposed architecture should be based on controller based Architecture with thick AP deployment. While Encryption / decryption of 802.11 packets should be performed at the AP.	The proposed architecture should be based on controller based Architecture with thin AP deployment. While Encryption / decryption of 802.11 packets should be performed at the AP.	Thick AP deployment points to an autonomous wireless deployment. However, JSCL architecture envisions a controller based architecture and therefore the deployment should be thin AP deployment.	Accepted

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260	12.4.1.1 WLAN Controller	Per user bandwidth Rate Limiting	Per user bandwidth Rate Limiting on per SSID basis.	Since there will be a lot of SSIDs being broadcasted, the controller should have the ability to limit the per user bandwidth on per SSID basis. The controller should be able to limit the bandwidth usage for citizens however the Government/JSCL/JMC SSID should not be affected by this rate limiting.	Accepted
261	12.4.1.1 WLAN Controller	New Addition	WLAN Controller should support minimum of 1200 Access points in a single chassis. Proposed controller should support 1+1/N+1 redundancy from day one.	The scalability of the solution is one of the most important aspects of any wireless deployment. Request you to kindly quantify the same by adding the support for 1200 access points minimum on day 1.	As per RFP
262	12.4.1.1 WLAN Controller	New Addition	WLC Should support Rogue AP detection, classification and standard WIPS signatures.		As per RFP

263	12.4.1.1 WLAN Controller	New Addition	Controller should support deep packet inspection for all user traffic across Layer 4-7 network to analyses information about applications usage, peak network usage times for all access points from day one in a central and local switching mode.		As per RFP
264	12.4.1.2 Access Point	The Access Point should have single 10/100/1000 Ethernet interfaces	The Access Point should have single 10/100/1000 Ethernet interfaces along with an additional SFP/SFP+ interface for direct fiber termination.	As discussed during the pre-bid meeting, this feature is important so that the access point deployment is flexible as per the need of the city of Jabalpur and not be restricted to the distance limitations of copper cabling.	Accepted
265	12.4.1.2 Access Point	802.11 a/b/g/n/ac Access Point should be able to power up using standards 802.3 af/at POE input.	802.11 a/b/g/n/ac Access Point should be able to power up using standards 802.3 af/at POE/power injector/adaptor inputs.		Accepted
266	12.4.1.2 Access Point	Maximum available transmit power: 2.4GHz: 21dBm per chain, 5.0GHz: 20dBm per chain	Kindly remove as this is limiting to only one OEM.	Kindly remove as this is limiting to only one OEM.	Refer the specification provided in Corrigendum 1

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267	12.4.1.2 Access Point	2.4 GHz-2.5 GHz : 4 dBi	2.4 GHz-2.5 GHz : 7 dBi		Refer the specification provided in Corrigendum 1
268	12.4.1.2 Access Point	5.150 GHz- 5.875 GHz : 5dBi	5.150 GHz- 5.875 GHz : 4dBi		Accepted
269	12.4.1.2 Access Point	Able to be powered over 802.3af/at standard Power-over-Ethernet (PoE). Auto sensing, 10/100/1000 on the network port	Able to be powered over 802.3af/at standard Power-over-Ethernet (PoE) or UPoE or power injector/adaptor. Auto sensing, 10/100/1000 on the network port		Accepted
270	12.4.1.2 Access Point	AP shall provide external antenna options	Kindly remove this point.	Since the access points will be deployed in public hotspots and will be visible from the outside, it is major impediment to aesthetics of the city if the antennas are sticking out of the box. It is therefore recommended to go for access points with internal antenna options when deploying hotspots in a city environment.	Accepted: External antenna options should be there for better coverage. Instead junction box should be planned accordingly to ensure safety of AP.

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271	12.7.5.4 Firewall	Encrypted throughput: minimum 1 Gbps	Please change the clause to "Encrypted throughput: minimum 300 - 600 Mbps"	Considering 100000 connections and 2000 tunnels, 1Gbps is going to be very high and would increase the cost of overall Solution. Hence we request you to change this to 300 Mbps.	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP
272	12.7.5.4 Firewall	802.1Q, NAT, PAT, IP Multicast support, Remote Access VPN, Time based Access control lists, URL Filtering, support VLAN, Radius/ TACACS, Support multilayer firewall protection, Traffic shaping, Bandwidth monitoring	Please change the clause to"802.1Q, NAT, PAT, IP Multicast support, Remote Access VPN, Time based Access control lists, URL Filtering, support VLAN, Radius/ TACACS, Support multilayer firewall protection, Traffic shaping/Rate-Limit, Bandwidth monitoring"	Traffic Shaping is the function of Switch or Router and hence requested the change	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or

					better set up as defined in RFP
273	12.7.5.4 Firewall	QoS features like traffic prioritization, differentiated services, committed access rate. Should support for QoS features for defining the QoS policies.	Please change the specs to "QoS features like traffic prioritization, differentiated services/preservation, and committed access rate. Should support for QoS features for defining the QoS policies."	Firewall is at the perimeter of the network and DSCP marking is done at the end device/point or switch and firewall is expected to preserve the marking so that it can be passed to the external devices. Hence we requested this change. Please change differentiated services to differentiated services/preservation.	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP

274	12.7.5.4 Firewall	New Addition	Please add "Proposed Appliance should be in Gartner's Leader or Challenger quadrant in the Latest Released Gartner's Report for Enterprise Network Firewall."		As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP
275	12.7.5.5 Intrusion Prevention System	· HTTP, HTTPS	Please change it to: "HTTP/HTTPS"	HTTP is the insecure way of communication as it carries password in clear text and is susceptible to attack. Kindly remove the HTTP	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or

					better set up as defined in RFP
276	12.7.5.5 IntrusionPreventionSystem	IPS should have provision for external bypass Switch	Please change it to: " IPS should have provision for internal/external bypass Switch"	External would complicate the deployment and would increased the number of devices to be managed and hence request to change it to internal/external	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP
277	12.7.5.5 IntrusionPreventionSystem	New Addition	Please add "ProposedAppliance should be in Gartner's Leader or		As per section 8.6, Scope of work indicated to establish

			Challenger quadrant in the Latest Released Gartner's Report for Intrusion Prevention Systems." In order to have the solution from reputed and trusted vendor in the security domain, we request to add this clause.		command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP
278	12.5.1 Network Architecture	Network Architecture	As per Network Architecture provided in RFP,the city network will have three layers 1.street layer2. City Layer3. Data centerLayer.The city network layer will constitute of three types of nodes1. Core Nodes2. Distribution Nodes3. Access Nodes	It is recommended to Put the minimum specifications (attached as annexure) for Core node, distribution node and access node which will be used to form core ring, Distribution ring and access layer network respectively. This will help in building the desired features asked in RFP such as multi-tenancy, redundancy and	As per RFP

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				high availability, Security, Software defined networking, convergence and resiliency.	
279	12.6 Smart Bill Board	New Addition	Request you add the Technical and Functional requirement for Smart Bill board solution, which will help for quality product. Like pixel pitch, Maximum power consumption, brightness of VMS shall be 7500-8000 cd/m2, Bill Board Dimensions , English, Hindi and other regional languages support etc.	Technical and Functional requirement is missing in tender document.	As per RFP

280	12.7 Central command and control Centre	New Addition	Overall Solution approach should have Integration Platform and Operation Centre Command Centre Solution, The platform should be able to normalize the data coming from different devices of same type (i.e. Different lighting sensor from different OEMs, different energy meters from different OEMs etc.) and provide secure access to that data using data API(s) to application developers		As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP
281	12.7 Central command and control Centre	New Addition	System need to have provision that integrates various services and be able to monitor them and operate them. The solution should provide option to integrate existing deployed solution by City and also need to provide scalability option to implement new use cases.		As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or

					better set up as defined in RFP
282	12.7 Central command and control Centre	New Addition	The Smart City Operations Center will be the nodal point of availability of all online data and information related to various current and future smart elements and will be connected to other network of services through an integration layer.		As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP

283	12.3.2 Video Management System (VMS)	<p>VMS shall be capable of transferring recorded images to recordable media (such as CD/DVD and/or tapes) in tamper evident and auditable form. All standard formats shall be supported including, but not limited to:</p> <ul style="list-style-type: none"> • AVI files • Motion- Joint Photographic Experts Group (M-JPEG) • Moving Picture Expert Group-4 (MPEG-4) 	Kindly change VMS shall be supported for Open format like AVI/MP4/MPEG-4.	This will ensure maximum reputed OEM participation.	Accepted
284	12.7.5.6 Application / Database/ Recording / Viewing / Other Servers	Combine server and disk based storage as integrated solution OR an external SAN/NAS as per above specifications to store Video data.	Vendor may propose Combine server and disk based Storage which will help to propose new advance technology for storing of video data with high density storage solution and lead to cost effective solutions from leading OEMs.		As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications under clause 12.7 are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP

285	Form 9 -- 4 Wi-Fi Services	Fully redundant cloud based AAA services to be provided (with OTP/ Password), to support Retail and campus network topologies	Need to know whether This deployment will be part of cloud or Physical server deployment. If it is a cloud based deployment so who will provide Cloud Network?		Refer the specification provided in Corrigendum 1
286	Form 9 -- 4 Wi-Fi Services	Full web based real time NMS system to monitor services working	Elitecore will provide EMS for Elitecore Applications. Need to know Who will procure NMS for end to end monitoring?		Refer the specification provided in Corrigendum 1
287	Form 9 -- 4 Wi-Fi Services	Full capability for EAP-SIM and EAP-AKA etc. Mobile Data offload to be done with Mobile Operators	Do we have direct access to operator HLR or IN system or we need to proxy EAP-SIM request to Operator AAA for Mobile Data Offload. Normally operators are not providing direct access to their legacy system.		Refer the specification provided in Corrigendum 1
288	Form 9 -- 4 Wi-Fi Services	Multiple Payment gateway integration required so subscriber can make the payments using online/offline mode.	Need to know how many payment gateway integration is expected. Kindly provide number of payment gateway integration so that we can include in SW BoQ		Refer the specification provided in Corrigendum 1
289	Form 9 -- 4 Wi-Fi Services	Advertising platform integration --- AAA to support advertisement from multiple parties.	Need detail description regarding integration with Advertisement server. Do ISCDL provides Advertisement server or it is		Refer the specification provided in Corrigendum 1

			in scope of SI to provide.		
290	Form 9 -- 4 Wi-Fi Services	High Speed Micro caching solution integrated to Wi-Fi network to deliver entertainment and content with zero broadband cost to user	Do we need to supply Caching solution or ISCDL? Please confirm understanding that caching content will not deducted from user account balance?		Refer the specification provided in Corrigendum 1
291	Form 9 -- 4 Wi-Fi Services	The content delivery solution should not use internet bandwidth and support minimum 500 movies and 1000 songs	Do we need to supply content delivery solution to ISCDL? We believe it is same as advertisement server. Kindly confirm.		Refer the specification provided in Corrigendum 1
292	Form 9 -- 4 Wi-Fi Services	Selected Bidder should share usage data analytics from all monetization across all SSID's on monthly basis.	Need more information, What kind of Usage data analytics report required		Refer the specification provided in Corrigendum 1
293		International Roaming Experience: The Selected Bidder shall have tie-ups with the international roaming Wi-Fi Service provider such as iPass,Boingo, Aicent and Comfone etc.	Need to know number of international roaming partner's integration?		Refer the specification provided in Corrigendum 1
294	Form 9 -- 4 Wi-Fi Services	Bidder should supply connection manager app (IOS and Android) which	Need to understand scope of Connection manager? We are already providing Mobile		Refer the specification provided in

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		Govt. can distribute to subscribers.	APP for subscriber		Corrigendum 1
295	Form 9 -- 4 Wi-Fi Services	Customer will receive free Wi-Fi for 30 minutes with maximum download limit of 100 MB per day and an aggregate limit of one GB per month. In this the Customer shall not be able to stream/download any video, audio or any high end application. The speed of surfing shall be restricted upto 1 Mbps. The Bidder shall insert advertisement (s) of a maximum duration of 20 seconds per 10 minute of browsing.	Do we need to restrict user for downloading and streaming or simply provide 1 Mbps speed. Kindly confirm.		Refer the specification provided in Corrigendum 1
296	Form 9 -- 4 Wi-Fi Services	Bidder Should cover minimum 800 hotspot by providing at least 1000 access points	How many concurrent Wi-Fi users are expected?		Refer the specification provided in Corrigendum 1
297			kindly share the number of gateway and it's make and model		Refer the specification provided in Corrigendum 1

298	Form 9 -- 4 Wi-Fi Services	Bidder shall leverage the Citizens Smart phones to either receive (paid content by way of Advertisements or edutainment) or transmit (stream) pictures / videos in real time to nearest police station for accessing support services as an eyewitness to an incident. Similarly the pictures and Videos may also be sent to the Jabalpur ULB departments for registering specific complaints from a curated list.	We assume this can be achieved using IP camera solution. Kindly confirm		Refer the specification provided in Corrigendum 1
299	1, 12.5.1, 83	In network architecture diagram, Zonal core ring is made up of 40G.	Kindly confirm that core ring of 40G can be created using multiple of 10G ports.		As per RFP
300	Section 8.1 (pg.# 42) LED based Smart Street Light	Two step dimming functionality shall only be provided for luminaires having power of more than 50W. Luminaires with power <90W shall be controlled (ON/OFF) and monitored in groups from their respective feeder panels upon instructions from centralized software.	Both of the clauses are overlapping. While the latter clause mentions that luminaires with power <90W needs to be controlled ON/OFF without any dimming functionality, the former clause mentions that the luminaires with power more than 50W shall support two-step dimming.		Read the clause as "Luminaires with power <90W shall be controlled (ON/OFF) and monitored in groups from their respective feeder panels upon instructions from centralized software" Two step dimming will be required for

			Does it mean that two-step dimming is required for luminaires with power more than 90W only? Please clarify.		luminaries with power more than 90W.
301	Section 8.1 (pg.# 43)LED based Smart Street Light	The dismantling of existing old light fitting will be done by the Concessionaire and handed over to JSCL store in working condition without any damage to the light fixture.	Please specify the number of already non-working luminaries and the damaged or non-available light fixtures in the city. We request the clause of this RFP should be change to " The dismantling of existing old light fitting will be done by the Concessionaire and handed over to JSCL store with proper care to avoid any damage to the light fixture.Please mention the number of poles on with single Luminaire, number of poles with double luminaire and number of poles with four LED luminaire		Concessionaires are expected to carry out necessary field surveys to verify the status of switching points, physical installations, geographic area covered and scope of the project defined so as to fully satisfy themselves on the existing field conditions and their scope. They will also be responsible for reviewing the baselines established pursuant to Energy Audits completed

					recently and satisfy themselves on the scope and feasibility of the project implementation for Feeder panel and Smart LED light fixtures.
302	Clause 12 /Page 66	Intelligent Pole 12m/25m	180 numbers/20 Numbers		200 nos. of intelligent poles are required. Out of 200 nos. max 10% (max 20 Poles) can be of 25 meters height.
303	12.1.1	Pole design to meet local aesthetic	what is the maximum dimension of the pole that can be considered with respect to Local Architecture and town planning		As per RFP, Dimensions are already provided

304	12.1.1		Need some local design as reference to meet pole aesthetic		Design references will depend on concessionaire survey and understanding of city aesthetic
305	12.1.1	Pole diameter w.r.t BIS	As per BIS there is no restriction on pole fabrication of greater diameter more than 350mm subject to designing		Pole diameter for 12 meter pole should be max 275 mm.
306	12.1.1	Pole section	Can we use square section with round corners		Round section is required
307	12.1.1	Different Pole colours	Please specify all maximum number of colours of the poles required		The requirement is to maintain the city aesthetics. Max 3 types of pole colours will be asked by the authority, but the decision will be done after the concession agreement
308	12.1.1	IP 67 rating of equipment section	We are planning to keep equipment in lower section of tower with free cooling provision so IP55 can be maintained		IP 67 rating will be required for equipment section

309	Section 8.2	Public Wi-Fi	Please mention the total number of subscriber using the Wi-Fi service during busy hour and maximum number of subscribers per AP simultaneously using the Wi-Fi service during busy hour access points	Device specifications are already provided and should be referred rather assuming the number of subscriber
310	Section 8.2.1 (pg.# 47) Public Wi-Fi "Scope of Work"	Each controller should be ready for supporting 300 AP's and 20000 devices from day one to run in Active-Standby / Active-Active Load Balancing Mode, with scalability for 1000 AP support in future.	Please clarify whether the number of devices mentioned (20000) are to be supported concurrently. AAA & Captive Portal are to be offered for these many devices only. Please confirm.	Refer the specification provided in Corrigendum 1
311	Page 80, Section 12.4.1.1 WLAN Controller Specification	System Architecture - The proposed architecture should be based on controller based Architecture with thick AP deployment	Termination of management and control function is the best mechanism to offload the AP and to reduce TCO (total cost of ownership) because of less expensive upgrades and migration to future technologies. Much of the configuration is centralized in the wireless switch, which reduces management functions from operating over the WLAN. Therefore we propose Thin AP and recommend use of Thick AP should be optional	Accepted

			to the vendor.		
312	Page 81 - Section 12.4.1.2 Access Point specification	Features - Maximum available transmit power: 2.4GHz: 21dBm per chain,5.0GHz: 20dBm per chain	Flexibility in Maximum transmit power per chain values should be provided for better RF coverage as per vendor planning		Accepted, However overall functionality and 100 metercoverage range should not be affected.
313	Page 81 - Section 12.4.1.2 Access Point specification	AP Characteristics - Wireless MESH function	Depending on the deployment scenario, flexibility of Mesh deployment should be provided to the vendor		Accepted, However overall functionality and 100 metercoverage range should not be affected.

314	8.4 Surveillance, Page 50	Concessionaire shall carry out SMS Gateway Integration with the Surveillance System and develop necessary applications to send mass SMS to groups/individuals, which can be either manual or system generated. Any external/third party SMS gateway can be used, but this needs to be specified in the Technical Bid	Please suggest who are the groups or individuals to whom SMS needs to be sent. Will there be a centralized database where this information will be available?		SMS can be generated from centralized database. System should be able to generate SMS in groups or Individual. JSCL will provide the list of concerned recipients after concession agreement signed.
315	12.3.2 Video Management System (VMS), Page 78	VMS shall be enabled for integration with any external Video Analytics Systems The analytics will be used to detect Σ Parking Violation Σ Crowd Detection	Please suggest the type of uses cases or scenarios that need to be covered under "crowd detection" for video analytics?		Crowd detection feature will be required to detect the abnormal density of people in that area: e.g. Mob
316	12.7.2 The Command & Control Center (CCC) Application, Page 94	System Platform – The platform should provide a common data integration layer which can collect and contextualize information from disparate data sources regardless of protocol. The platform should support templates to allow “build once- deploy	Need you to elaborate on the key functionalities expected from the "system platform". Will this be a common platform to manage the lifecycle of IoT devices, device data and related analytics?		As per RFP, The description indicates the platform should be expandable to manage the devices to be added in future. The future addition will be IoT enabled devices as smart city components.

		everywhere” functionality.			
317	8.1.2, LED based Smart Street Light- Operation & Maintenance, page no .44	Early rectification of cable faultsRegular maintenance of street light conductors and underground cablesMaking sure that cables are joined properlyRegular maintenance of service cabinet/fuse box to avoid loose connections	Please clarify, if JSCL shall support for rectification of street light conductors/underground cables that may involve services from other govt agencies.		Yes, JSCL shall provide the support JSCL shall support for rectification of street light conductors/underground cables that may involve services from other govt agencies for the damages found during survey. Post implementation part to be taken care by concessionaire
318	8.13 Operation & Maintenance , iii	Day to day operations at Command and Control Center will be monitored and operated by JSCL	Please clarify if the bidder is supposed to provide the solution for network monitoring or JSCL will have setup its own NOC and shall have its own network monitoring (FCAPS) team.		Concessionaire has to build CCC at their preferred location. Day to day operation of CCC will be concessionaire responsibility

319	8.13 Operation & Maintenance , v	The Concessionaire shall provide comprehensive on-site warranty for all the hardware items and peripherals, both on field and inside the Command and Control Center	Please clarify, if JSCL shall have necessary back to back AMC contracts in place, for equipment not supplied by the concessionaire		Concessionaire will be responsible for the maintenance of equipment provided as mentioned in RFP. JSCL will rectify the faults observed during initial survey only. Maintenance of equipment comes under the project will be maintained by concessionaire during the concession period.
320	8.13 Operation & Maintenance , vi	comprehensive maintenance of the components	Please clarify, if JSCL shall have necessary back to back AMC contracts in place, for equipment not supplied by the concessionaire		Concessionaire will be responsible for the maintenance of equipment provided as mentioned in RFP. JSCL will rectify the faults observed during initial survey only. Maintenance of equipment comes under the project will be maintained by concessionaire during the concession period.

321	8.1.1 Point No : 17	The Concessionaire will be fully responsible for all kind of theft including electricity. The feeder panel should be equipped to raise an alarm and command center in case of electricity theft	Bidder can provide arrangement where-in they can report the Power Theft but would request JSCL to take corrective measure for Power Theft cases being reported by the bidder& Should not be Penalized for this.		The clause to be read as "The Concessioner will be fully responsible for generating alerts for all kind of theft including electricity"
322	8.1.3	Guarantee towards the Electricity Consumption for new Street Lighting instead of old existing street lights as per annexure 1. After replacement of existing street light with energy efficiency LED	An escalation of 10% shall be applied annually to the energy tariff during the concession period and annual payment against savings shall be adjusted with the escalation. Any subsidy in energy tariff awarded by the State or Central Government authorities in future for the energy efficient upgrade program shall not be applied to the Concessionaire share of savings to ensure cash flow from the program considered by the Concessionaire in their business model is not affected.		As per RFP

323	8.1.3	Street light minimum 35% of energy saving should be mandatory. The payment will be release to the Concessionaire as per the basic rate of electricity unit i.e. ~INR6.50 /KWH/KVA.			As per RFP
324	12.2.3.2 Point No : 23	Cover/glass without lens or with lens: Fixture cover-UV stabilized Polycarbonate/heat resistance toughened glass or equivalent will be accepted for the Luminaire without lens. For the Luminaire with lens, toughened glass be required with proper IP66 provision is preferred.	NO luminaire should be allowed without LENS. It will not be possible to attain light distribution as per IS 1944 as mentioned in specification in the absences of LENS. Hence this specification to be Withdrawn.		As per RFP
325	12.2.6	Luminaire Endurance Test : Practical testing of luminaire through 20,000 cycles	Luminaire Test to be measured as per IS or IEC Standard.		Accepted

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326	14.2.2.3	Uptime up to $\geq 99.5\%$. $< 99.5\% - (100\% - \text{Uptime } \%)$ of monthly Operational Expense for the component for the year. For example if uptime of component is 95%, then penalty imposed will be $100\% - 95\%$ i.e. 5% of	The Concessionaire shall ensure 95% quarterly average uptime of the lighting installation. Any defect in the LED system and Lighting Control & Management system shall be rectified within 48 hours of notification of such defect. Any lapse in the quarterly average uptime and in the defect resolution service level shall be subject penalty per following calculation:		As per RFP
		Operational expense for the year. The penalties would be levied for every unit down time hour- be it for non-availability of network or non- availability of power etc. because the successful Concessionaire is			
		Responsible for supply of all enabling components on end to end basis.	Quarterly Uptime Penalty		
			95% and above Nil		
			90 to 95% 1 X energy tariff X cumulative kW of defective lums less than 95% X		

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			Time taken by concessionaire to bring the installation upto 95%		
			<90%		
			2 X energy tariff X cumulative kW of defective lums less than 95% X		
			Time taken by concessionaire to bring the installation upto 95%		
			Default in 48 hrs SLA		
			Resolution time Penalty		
			<48 hrs Nil		
			>48 hrs 2 x energy tariff X cumulative kW of defective luminaires X time beyond		
			48 hrs for resolution		
			However, the concessionaire will be allowed a maximum of 7 days to rectify any deficiency in performance due to fault in software or server or communication network signal.		

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327	8.1.1	The quality of the luminaries/ Lux level will be maintained by Concessionaire during the project life. The Concessionaire has to follow all necessary safety	The concessionaire shall guarantee that the average lighting levels to be maintained for different categories of road shall not be compromised due to introduction of further energy efficiency improvement measures.		As per RFP
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		<p>guidelines/directions issued by Municipal Corporation from time to time</p>	<p>The Concessionaire shall maintain the average lighting levels, as per the tender requirements, throughout the concession period. The lighting levels shall be measured for selected typical road configurations and the LED solution with controls once every year. The annual lighting measurements shall be carried out on pre-agreed measurement grids and repeated every year at the same locations. The measured lighting levels shall not fall below 15% of the guaranteed lighting levels throughout the concession period. The Concessionaire shall incorporate a maintenance factor of not more than 0.8 in the lighting design calculations to account for depreciation of lighting level during the concession period. The Concessionaire shall be solely responsible for the choice of LED solution and design and shall</p>	<p>As per RFP</p>
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			<p>rectify any deficiency observed in the lighting level through appropriate interventions without any additional cost to JSCL . If the concessionaire does not rectify the deficiency in lighting level beyond the pre-agreed tolerance within 30 days of observation a penalty of INR. 10,000 per week shall be levied for the number of days beyond 30 days. Lighting level measurement in the standard installations pre-agreed during baseline setting shall be the sole criterion for lighting performance guarantee.</p>	
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328	8.1.1	<p>Concessionaire shall be responsible for identifying existing street light cables or conductors or existing damaged poles in street light infrastructure maintained by JSCL. In such instances, Concessionaire will provide the reasons and related investment costs for replacement with suitable justification wherever required. The replacement of such infrastructure will be done by JSCL and/or Power Discom as the case may be</p>	<p>The selected Concessionaire shall carry out a detailed Investment Grade Audit (IGA) for the street lighting infrastructure and Investment Grade Energy Audit (IGEA) immediately after the award of Contract. The audit shall be completed within a period of 90 days from date of award. During the IGA the Concessionaire shall map any and all the deficiencies and defects in the existing electrical distribution, protection and street lighting installation including but not limited to condition of poles, brackets, cables, electrical protection equipment/accessories, earthing etc. and recommend necessary improvements to JSCL. JSCL will review such recommendations and based on the merits would decide to upgrade the infrastructure on its own before installation of the project or may instruct the Concessionaire to carry out the improvements. Such</p>	As per RFP
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			<p>investment by the Concessionaire shall be paid by JSCL as per standard rates of PWD. 80% of the payment will be effected within 30 days of the Concessionaire submitting the invoices for such work. Balance 20% shall be released within 60 days based on certification of the work carried out by JSCL/representative of JSCL.</p>	
			<p>The Concessionaire shall be responsible to maintain the street lighting electrical infrastructure during the Concession period. The responsibility of the Concessionaire shall exclude maintenance of underground cables and overhead street lighting power supply feeders. Maintenance of these will be under the scope</p>	<p>As per RFP</p>

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			of JSCL/DISCOM		
329	Section no. 12.10, Bill of Quantity (BOQ), Page no. 138, Tape Library	Quantity mentioned- As required	Quantity min should be 1	If not mentioning the quantity it can be optional for others to design the solution without Tape Library	Accepted

330	JSCL/2016/26	Request for implementation of PMA Policy of Government of India.	<p>We would like to bring to your notice that Government of India has come up with a Preferential Market Access Policy giving preference to domestic manufacturers in <u>all government funded projects</u>. In addition, the policy dated 23rd December, 2013 vide clause 4.3.4 states that the tender conditions would ensure that domestically manufactured electronic products are encouraged and are not subjected to restrictive product specifications or mandatory requirement of prior experience. All System Integration/Turnkey projects also get covered under the PMA Policy vide clause 5.5 of Policy guidelines dated 16th November, 2015. <u>As the Smart City projects are funded by central government, we request you to include the implementation of PMA policy on this tender and help in creating a stronger domestic industry.</u> Many of the government projects are already covered under the Policy. Enclosed are various copies of tenders where PMA policy is already appearing in the</p>		<p>The RFP has been made with Global standard and to fulfill the objectives of JSCL. The RFP describes the requirement in the generic form and there is no make and models are specified in the RFP</p>
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		<p>tender. In view of this we request you for Implementation GOI Preferential Market Access Policy to promote domestic manufacturing under Make in India- as per the following notificationsa. Notification No.8 (78)/2010-IPHW dated 10 Feb 2012b. DoT notification No.18-07/2010-IPdated 05 Oct 2012c. Guidelines issued by DeitY vide No.8 (78)/2010-IPHW dated 12Jun 2013.d. Notification issued by DeitY vide No.33 (3)/2013-IPHW dated 23Dec 2013.e. Guidelines issued by DeitY vide No.33 (7)/2015-IPHW dated 16th November, 2015. Below Tender Documents/clarifications reference mentions PMA policy:-</p> <ol style="list-style-type: none">1. RailTel Corporation of India Limited - Tender No. RailTel/Tender/OT/CO/Project/2012-13/211 - Clause 23 (Page-50)2. BSNL Indian Navy Tender - CA/CNP/NCN-EQPT/T-464/2014 DATED 31 JAN 2014 - Clause 4.1.6 (Page-6)	
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331	11) 64	Bidder should ensure that only one make and model is proposed for onecomponent in Technical Bid for example all PTZ cameras must belong to a single OEM and must be of the same model etc.	Our understanding is that each type of component must be of same OEM, like all L2+ 8 Ports Managed PoE Switch must be of same OEM and not all type of switches of same OEM. Please do clarify		The clause is written for the field devices, one kind of device should be from same OEM.
332	12.8, 8) Security ,135	The switch should support TACACS+, RADIUS accounting and RADIUS client, IEEE 802.1x port-based Network Access Control (NAC), IEEE 802.1x multiple supplicant mode, EAP, EAP-TLS, LEAP, PEAP, TTLS, Microsoft NAP compliant, Symantec NAC support, Per port MAC address filtering, Layer 2/3/4/ Access Control Lists (ACLs), SSLv3 for Web management, Per port MAC address limiting, MAC address security/lockdown, Guest VLANs and SSH session Time out.	Specified IEEE 802.1x protocol is stufiest to maintain network security. The LEAP, Microsoft NAP compliant, Symantec NAC support are OEM specific features, so would request you to relax these features		Accepted

333	12.8, 10)Other Essential Feature ,136	Support for IPv6 host, ICMPv6, IPv6 ACL, Dual-stack IPv4/IPv6 management, IPv6 applications WEB/SSL, Static IPv4 routing 4K, RIPv1,v2, Proxy ARP, IEEE 802.3ad, ICMP, LLDP-MED, LLDP, DHCP snooping, DHCP option 82, DHCP relay, ICMP. The switch should have ECO Friendly design and fan less operation	Considering these switches will be used as access switches for termination of end devices for which maximum 7-8 subnetworks configuration will be required on switches for which maximum 7-8 IPv4 routes support will be required. The specified support of Static IPv4 routing 4K are quite high and will never be utilized on 8 port switch. So would request you to consider switch will maximum 1K IPv4 static routing support		Accepted
334	12.8, 12) Safety Certifications, 136	EMI: FCC class A, CE, UL 60950-1, EN60950-1, EN60825 Etc.and Compliant with RoHS standards, NEMA -TS2	The specified standard EN60825 is of Laser safety for un terminated laser links which seems to be irrelevant standards for the application in which these switches are deployed , request to get this clause removed		Accepted

335	Section 1.1 Pg 11	<ul style="list-style-type: none"> • Command and Control Center (With DC and DR): Command and Control Center (CCC) will be a centralized data repository and action centers. All the data, images and videos captured by the smart components placed in the city will communicate to the CCC. CCC software application will be intelligent to analyze the data and to create the reports in utilizable formats. CCC will be used to broadcast the information to the concerned teams to perform specific actions 	City Command and Control Centre is an enterprise system .Enterprise systems are designed for high availability & for specified SLAs. Therefore requirement of DR should be dropped. This will help in improving the cost efficiency while providing desired SLA		As per RFP
336	Section 8 Scope of Work for the Concessionaire Pg 41	<p>Further, following is the list of future smart city interventions for JSCL;</p> <ul style="list-style-type: none"> • Intelligent Transport System and Intelligent traffic management • SOS panic button on pole • Flood monitoring sensors 	We understand that the services, whose detailed specifications are in the RFP only needs to be provided. The future services shall be looked at the later stage		System should be capable to add these features in future

337	8.4 SurveillancePg 50	<ul style="list-style-type: none"> • Concessionaire shall undertake detail assessment for integration of the Surveillance System with the Geographical Information System (GIS) so that physical location of cameras are brought out on the GIS map. Concessionaire is required to carry out the seamless integration to ensure ease of use of GIS in the Surveillance System Applications/Dashboards in Command Control Centers. GIS Base Map shall be developed or procured, supplied and integrated by the Systems Integrator at 1:1000 scale or better with all surveillance cameras located on the map apart from the updated map of all buildings, utilities and roads. If this requires field survey, it needs to be done by the Concessionaire. If such a data is already available with JSCL, it shall facilitate to provide the same. Concessionaire is to check the availability of 	Please mention details of existing GIS map		JSCL will provide the details post concession agreement
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		such data and it's suitability for the project. Concessionaire is required to update GIS maps from time to time			
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338	8.4 SurveillancePg 50	<ul style="list-style-type: none"> • Concessionaire shall undertake detail assessment for integration of the Surveillance System with the Geographical Information System (GIS) so that physical location of cameras are brought out on the GIS map. Concessionaire is required to carry out the seamless integration to ensure ease of use of GIS in the Surveillance System Applications/Dashboards in Command Control Centers. GIS Base Map shall be developed or procured, supplied and integrated by the Systems Integrator at 1:1000 scale or better with all surveillance cameras located on the map apart from the updated map of all buildings, utilities and roads. If this requires field survey, it needs to be done by the Concessionaire. If such a data is already available with JSCL, it shall facilitate to provide the same. Concessionaire is to check the availability of 	We understand the historical data is required for Dashboard Application. Pl confirm		Yes, Historical data will be required
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		such data and it's suitability for the project. Concessionaire is required to update GIS maps from time to time			
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339	8.9 System Documents, User DocumentsPg 53	System Documents, User Documents	Since the Detailed level documents can only be prepared after the detailed survey & with multiple discussion with city, therefore we understand that all the detailed level document shall be supplied by successful bidder after allotment of the project. Please clarify.		Yes, As per RFP, The Concessionaire will provide documentation, which should follow the ITIL (Information Technology Infrastructure Library) standards. This documentation should be submitted as the Project undergoes various stages of implementation. Indicative list of documents include:
340	8.9 System Documents, User Documents Pg 54	Cabling Layout: Systems Integrator shall submit the detailed cabling layout including cable routing, telecommunication closets and telecommunication outlet/ connector designations. The layout shall detail locations of all equipment and indicate all wiring pathways. The drawings will HLD, LLD, Circuit, SLD etc. in line with the scope of work	Since the Layout and associated documents can only be prepared after the detailed survey & with multiple discussion with city, therefore we understand that all the detailed level document shall be supplied by successful bidder after allotment of the project. Please clarify.		Yes, As per RFP, The Concessionaire will provide documentation, which should follow the ITIL (Information Technology Infrastructure Library) standards. This documentation should be submitted as the Project undergoes various stages of implementation.

					Indicative list of documents include:
341	Section 11Pg 65	<ul style="list-style-type: none"> The Servers provided should meet industry standard performance parameters (such as CPU utilization of 60 percent or less, disk utilization of 75 percent or less). In case any non-standard computing environment is proposed (such as cloud), detail clarification needs to be provided in form of supporting documents, to confirm (a) how the sizing has been arrived at and (b) how SLAs would be met. 	<p>We acknowledge that Jabalpur is to be developed as a Smart City with best ICT infrastructure, however it is important that the entire design of Command & Control Centre, Data Centre and associated hardware is left to the bidder in order to optimize the PPP model. Only the desired applications/ requirements needs to be specified by authority. In that case it would be bidder's responsibility to design & provide services for the required application. Then the clause wise compliance and the specified BoQ</p>		<p>Accepted, But the infrastructure created should be of similar level to the specs given in the clause 12.7</p>

			<p>becomes not applicable.This will help in putting entire global experience and expertise of reputed organizations.</p>		
342	<p>Section 12.1.1 Clause 2 Pg 66</p>	<p>Pole Height requirement is 12 meters. 10 % of the total no. of poles can be of 25 meters. TRAI and DOT guidelines to be followed as the pole will be used as a telecom site. Any local regulations will be taken care by the Concessionaire</p>	<p>A 12 meter smart pole can be best optimized as a telecom site with the right combination of network design, technology and parameters like frequency of operation, data speed and quality, subscriber sizing per cell, coverage area, clutter, antenna gain etc. Better network cannot be assured with increase of height.</p>		<p>As per RFP</p>

			<p>Aesthetics of the city can only be maintained with 12 meter Smart pole. We recommend only 12 meter Smart poles.</p>		
343	Section 12.1.1 Clause 7Pg 66	The allowed diameter will be as per the BIS regulations and wind speed requirement	<p>BIS standard are General in nature. Smart poles are a new innovation that are used as an IoT platform to provide multiple services. In order to utilize the common infrastructure of city & aesthetics, a maximum diameter of 275mm at bottom level is recommended. It is also recommended that the max wind speed withstand capability of Smart Pole which is intended to house bill board should be 140Kmph. Same needs to be specified.</p>		Accepted

344	Section 12.1.1 Clause 9 Pg 66	The camouflaging material (to cover RF equipment's) should have RF transparency with attenuation within the permissible limits	We agree that the telecom system meeting the aesthetic requirement should be camouflaged, at the same time present negligible RF losses and should be free from passive intermodulation in order to reduce call drops and RF interference. Therefore In order to keep the RF losses to a minimum, the maximum loss should be less than 0.5db. Recommend setting 0.5db as the maximum loss level of camouflaging material. Same needs to be specified. This will help to enhance the coverage requirement to optimum level		Accepted, Maximum loss should be less than 0.5db.
345	Section 12.1.1 Clause 10 Pg 66	It should meet EMC requirement of telecom sites as per Indian regulations	For the structure to be free from any passive intermodulation. We recommend Passive intermodulation (PIM) value should be < -150 dBc @ 2 x 43 dBm in order to avoid call drop issues		As per RFP

346	Section 12.1.1 Clause 19 Pg 67	The cooling/heating equipment's to cool /heat telecom equipment is integral part of intelligent pole and should be in permissible limits, efforts should be made to reduce the power consumption as much as possible	To achieve energy sustainability and to achieve ICT goals (such as low opex, no additional space, provide sufficient power and battery backup etc.) the Smart pole should work without additional air-conditioning. We recommend that the IP 67 cabinet asked for, should be underground & should support natural cooling. The underground cabinet will add to saving on space, power and meeting the aesthetics of the city. Therefore the maximum consumption should be less than 100 W.		As per RFP, JSCL have the rights to approve the design of the pole and IP67 cabinet before implementation
347	Section 12.1.1 Clause 20 Pg 67	The cabinet where telecom equipment is store should be IP67 compliance	We recommend that the IP 67 cabinet asked for, should be underground. The underground cabinet will add to saving on space, power and meeting the aesthetics of the city		As per RFP, JSCL have the rights to approve the design of the pole and IP67 cabinet before implementation
348	Section 12.3.2 Pg 77	Video Management System (VMS)	Max storage of 30days is recommended. In that case tape library requirement becomes not applicable. Pl confirm		Accepted, However the storage requirement and other functionality should not be affected

349	Section 12.3.1.4 Pg 77	Design As per following signage diagrams	Signage diagram is missing		Follow the dimension requirement provided in table
350	12.3.2 Video Management System (VMS) Point 8 Pg 78	VMS shall be enabled for integration with any external Video Analytics Systems The analytics will be used to detect • Parking Violation • Crowd Detection	Please confirm if Video Analytics addressing these applications are part of the offer or the VMS needs to be only integrated with these services		Video Analytics addressing these applications are part of the offer
351	Section 12.6Pg 91	Smart Bill Board	Please define functional requirements of Element Management system of Smart Bill board		The Smart Billboard will be operated from Command & Control CenterContent will be managed from CCC

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352	12..7 Pg 92	12.7 Command and Control Centre	<p>We acknowledge that Jabalpur is to be developed as a Smart City with best ICT infrastructure, however it is important that the entire design of Command & Control Centre, Data Centre and associated hardware is left to the bidder in order to optimize the PPP model. Only the desired applications/ requirements needs to be specified by authority. In that case it would be bidder's responsibility to design & provide services for the required application. Then the clause wise compliance and the specified BoQ need not be applicable This will help in putting entire global experience and expertise of reputed organizations.</p>		<p>As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP</p>
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353	Section 12.7.2 Pg 93	Command and Control Center (CCC) will be located at concessionaires preferred location. The feeds from CCC to be sent to Integrated Command and Control Center (ICCC) of JSCL. Concessionaire can refer the below specification to build CCC but the specification are not binding on Concessionaire. However, the functionality and features of CCC should be as defined below.	Please specify expectation of the feed to be sent to Integrated Command and Control center (ICCC) of the JSCL. In case if only feed is to be given then the clause wise compliance & specific BOQ is not applicable		JSCL will develop ICCC, the feeds reaching to the CCC will be communicable to ICCC Clause wise compliance are not binding to concessionaire. However command and control center infrastructure should have the similar or better set up as defined in RFP
354	Section 12.7.2Pg 93	Command and Control Center (CCC) will be located at concessionaires preferred location. The feeds from CCC to be sent to Integrated Command and Control Center (ICCC) of JSCL. Concessionaire can refer the below specification to build CCC but the specification are not binding on Concessionaire. However, the functionality and features of CCC should be as defined below.	Please provide details of JSCL's ICCC with whom the proposed CCC needs to integrated		ICCC will be in JMC area and it should be connected through fiber connectivity. Detail architecture and specifications will be shared by JSCL to concessionaire after concessionaire agreement signed.

355	Section 12.7.2 Pg 93	Command and Control Center (CCC) will be located at concessionaires preferred location. The feeds from CCC to be sent to Integrated Command and Control Center (ICCC) of JSCL. Concessionaire can refer the below specification to build CCC but the specification are not binding on Concessionaire. However, the functionality and features of CCC should be as defined below.	We assume connectivity between CCC & JSCL's Integrated Command and Control center (ICCC) will be responsibility of JSCL		Connectivity between CCC to ICCC will be the responsibility of concessionaire
356	Section 12.7.2 Pg 93	Command and Control Center (CCC) will be located at concessionaires preferred location. The feeds from CCC to be sent to Integrated Command and Control Center (ICCC) of JSCL. Concessionaire can refer the below specification to build CCC but the specification are not binding on Concessionaire. However, the functionality and features of CCC should be as defined below.	Define application interface requirements for the feed to be transferred from CCC to JSCL's Centralized CCC		API should be open to share for the integration with ICCC

357	Section 12.7.5Pg 105	Technical Specifications for Data Center infrastructure	<p>We acknowledge that Jabalpur is to be developed as a Smart City with best ICT infrastructure, however it is important that the entire design of Command & Control Centre, Data Centre and associated hardware is left to the bidder in order to optimize the PPP model. Only the desired applications/ requirements needs to be specified by authority. In that case it would be bidder's responsibility to design & provide services for the required application. Then the clause wise compliance and the specified BoQ need not be applicable. This will help in putting entire global experience and expertise of reputed organizations.</p>		As per RFP
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358	12.7.5 Pg 105	Technical Specifications for Data Center infrastructure	<p>We acknowledge that Jabalpur is to be developed as a Smart City with best ICT infrastructure, however it is important that the entire design of Command & Control Centre, Data Centre and associated hardware is left to the bidder in order to optimize the PPP model. Only the desired applications/ requirements needs to be specified by authority. In that case it would be bidder's responsibility to design & provide services for the required application. Then the clause wise compliance and the specified Bo need not be applicable. This will help in putting entire global experience and expertise of reputed organizations.</p>		As per RFP
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359	8.1.1, Pg No 43	<p>Concessionaire shall be responsible for identifying existing street light cables or conductors or existing damaged poles in street light infrastructure maintained by JSCL. In such instances, Concessionaire will provide the reasons and related investment costs for replacement with suitable justification wherever required. The replacement of such infrastructure will be done by JSCL and/or Power Discom as the case may be</p>	<p>There are following queries on this-1. If existing fixture is defective then how luminaire will be retrofit?2- Who will borne the cost if luminaire needs to be replaced?3- If, for some of the luminaries retrofit solution/ product not available in market or the available solution is not reliable then fixture needs to be replace? Who will decide the same? Who will borne the cost for the same?</p>		<p>Clause 8.1.1 remains same, As per Clause 8.1.2, post implementation replacement will be done by concessionaire</p>
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360	8.1.3, Pg No 45	<p>Guarantee towards the Electricity Consumption for new Street Lighting instead of old existing street lights as per annexure 1. After replacement of existing street light with energy efficiency LED street light minimum 35% of energy saving should be mandatory.</p>	<p>If some of the existing street lights are not in working condition-</p> <ol style="list-style-type: none"> 1- How energy saving can be evaluated? 2- How SP will submit it to JSCL store in working condition? 3- What will be the procedure to certify that a particular street light is not in working condition? 4- Who will bear the cost of replacement of defective meters? 		<p>Existing street light which are not in working condition will be replaced by the concessionaire.</p> <p>Concessionaire will submit the survey report to JSCL for fault rectification. Faulty light submission process will be discussed between concessionaire and JSCL post award of the project</p> <p>Non-working status of the street light will be defined on the basis of lux requirement</p>
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361	8.8.1, Pg No 53	Partial Acceptance Test shall involve scrutiny of documents for various IT / Non-IT components to verify if the specifications conform to the technical and functional requirements mentioned in the Tender and subsequent corrigendum.	Would Partial acceptance be carried out per pole basis or based on some minimum qty. if yes, what is the minimum qty. If No, Please clarify		Partial acceptance may be carried out per pole basis. JSCL reserves the rights to partially accept the completion of a component by issuing a partial completion certificate to the Concessionaire. Basis the certificate Concessionaire can start generating the revenue. However, authority may devoid Concessionaire of generating revenue if there is a delay in final completion of the activities.
362	8.10., Pg No 50	Helpdesk Concessioner will set up a 24X7 centralized helpdesk for the project for entire concession period	Help desk is required after T+54weeks. Please confirm		Creating CCC and helpdesk will be the parallel activity with intelligent pole implementation

363	8.12, Pg No 51	<ul style="list-style-type: none"> • Concessioner will get the training and capacity building strategy including training material finalized with JSCL before starting the training programs. • Concessioner will prepare all the requisite audio/visual training aids that are required for successful completion of the training for all stakeholders. These include the following for all the stakeholders: 	Please confirm the Scope of training in terms of Man-days/ Batches/No. of People		As per RFP
364	19.10, Pg 61	1.1. Acceptance Test:	Our understanding is that UAT & Final Acceptance test is same, please confirm		Yes, UAT and final acceptance test can be considered as same

365	8.1.3- Guaranteed Energy Saving	<p>After replacement of existing street light with energy efficiency LED street light minimum 35% of energy saving should be mandatory. The baselines for energy consumption for existing street lighting connections at all switching points will be established using the existing energy meters of the Power Discom and verified by the third party energy auditors along with the Concessionaire. For this purpose, JSCL will ensure that all meters are in proper working condition in coordination with Power Discom. Where meters are not in proper working condition, Concessionaire shall install a check meter duly tested and certified in accordance with the existing regulations and such check meter will be used for the purpose of energy consumption baselines of Concessionaire project. Where Concessionaire has doubts</p>	<p>If some of the existing street lights are not in working condition-1- How energy saving can be evaluated?2- How SP will submit it to JSCL store in working condition?3- What will be the procedure to certify that a particular street light is not in working condition?4- Who will borne the cost of replacement of defective meters?</p>		<p>Existing street light which are not in working condition will be replaced by the concessionaire. Concessionaire will submit the survey report to JSCL for fault rectification. Faulty light submission process will be discussed between concessionaire and JSCL post award of the project Non-working status of the street light will be defined on the basis of lux requirement concessionaire will bear the cost of meters</p>
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	regarding the accuracy of any meter, it can contest the same on the basis of records obtained and seek replacement of such meters. JSCL shall assist the Concessionaire for replacement of such meters in coordination with Power Discom.			
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366	<p>The dismantling of existing old light fitting will be done by the Concessioner and handed over to JSCL store in working condition without any damage to the light fixture. JSCL will maintain the daily stock record of the old fittings, cables, brackets and feeder panels replaced and handed over by the contractor to JSCL (store department). The store keeper will issue a challan or copy of receipt to Contractor listing the material handed over with quantities.</p>		<p>Existing street light which are not in working condition will be replaced by the concessionaire. Concessionaire will submit the survey report to JSCL for fault rectification. Faulty light submission process will be discussed between concessionaire and JSCL post award of the project Non-working status of the street light will be defined on the basis of lux requirement concessionaire will bear the cost of meters</p>
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367	8.1.1, Scope of Work	The Concessioner needs to retrofit the aforementioned luminaires, other than LED, with LED luminaires and make the entire street lights smart. Each and every LED should be monitored and controlled from the Command and Control Center with the aid of a centralized software.	There are following queries on this- 1. If existing fixture is defective then how luminaire will be retrofit? 2- Who will borne the cost if luminaire needs to be replaced? 3- If, for some of the luminaries retrofit solution/ product not available in market or the available solution is not reliable then fixture needs to be replace? Who will decide the same? Who will borne the cost for the same?		Defective fixture to be replaced by the concessionaire Concessionaire will bear the cost of replacement
368	12.3 .1.1 Point 1.	Video Compression H.264	Pls change to : Video Compression H.264 / H.265 as per latest Standards		Accepted
369	12.3 .1.1 Point 2.	Video Resolution 1920 X 1080	Pls change to: Video Resolution 3MP (1~25/30fps) / 1080P (1~50/60fps) / 1.3 MP/ 720P (1~25/30fps). 3Mp is minimum resolution being expected as per present standards		As per RFP
370	12.3 .1.1 To be added		Pls add : Video Streams : Triple Streams, individually configurable		As per RFP

371	12.3 .1.1 Point 5.	Lens Auto-focus, 4.7 - 94 mm (corresponding to 20x)	Pls change to : Lens Auto-focus, 4.5 - 135 mm (corresponding to 30x)		As per RFP
372	12.3 .1.1 Point 9.	20x optical zoom and 10x digital zoom	Pls change to : 30x optical zoom and 16x digital zoom for better viewing		As per RFP
373	12.3 .1.1 To be added		Pls add PTZ Camera with Inbuilt IR with IR Distance of 100 Meters or more. This is help in reducing point of failures		Accepted
374	12.3 .1.1 To be added		Pls add ONVIF Profile S Support to ensure seamless integration		Accepted
375	12.3 .1.1 Point .15	Certification : UL/EN,CE,FCC	Pls change this to Certification : UL,EN,CE,FCC		As per RFP
376	12.7.2	12.7.2 The Command & Control Center Application	The solution should have the capability to integrate with existing GIS. If certain layers are not available then the Concessioner should give the details to the owner for creation of the layers	Please Share the existing GIS details to be integrated with Command and control Application	Concessionaire will update the locations on GIS Map developed by JSCL
377	8.6	8.6 Centralized Command and Control Centre	The centralized command and control center can monitor and control, via the centralized application, the smart components like Smart LED, Smart Surveillance, AccessPoints for the	This statement is asking the Command and control to monitor and control the smart components from centralized application,	Smart components should be monitored and controlled from Command and Control Center

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			public Wi-Fi, Smart Billboards and Environmental Sensors.	whereas in specifications it is not asked. Please clarify if direct control is required or not.	
378	Section 8	Section 8, Scope of work for the concessioner	The following Smart components needed to be implemented as part of the RFP;• Command and Control Center (With DC and DR)	Request you to clarify the following,	Command center (with DC and DR) to be implemented at concessionaire's preferred location
379				1. Whether scope of bidder is to develop three different areas / rooms for Command control center, Datacenter and DR Center independently.	Data Center and DR should be in two different seismic zones.
380				2. Clarify the locations for the above 3 areas	Data Center and DR should be in two different seismic zones.

381				3. Whether all 3 areas / rooms are going to be part of existing building? Then request you to share the building layout drawings with location marking for Command control center, Datacenter and DR Center	Data Center and DR should be in two different seismic zones.
382				4. What is the area(in Sqft/Sqmeter) allocated for these rooms?	Data Center and DR should be in two different seismic zones.
383				5. As per best practice, DC and DR shall be located in a different places. Kindly clarify how it is planned here?	Data Center and DR should be in two different seismic zones.
384	52	8.6 Centralized Command and Control Centre	Establish command & control center (CCC) in the concessionaire preferred location and supply of furniture, video wall, workstation, access switch, rack, connecting cables, LAN cabling, electric cabling etc. in command and control	We understand that CCC to be established with interior works like partitions, flooring works, ceiling works etc. in the existing building, Please clarify the same.	Yes, Concessionaire may refer the specification provided under clause 12.7

			center		
385				Request to share the layout drawing with dimension details (Length, Width, Height) of the identified area of CCC	Refer Clause 12.7
386				How many users / workstations to be planned for the CCC area?	Refer Clause 12.7
387	52	8.6 Centralized Command and Control Centre	To establish Data center along with the CCC and supply of routers, firewall, switches, patch panel, racks, storage, servers, access control, fire suppression, air conditioning, UPS, DG sets, LAN cabling, electric cabling, other connecting cables etc. in data center	We understand that there will be a separate room to be established for Datacenter - Please confirm.	Refer Clause 12.7
388				Also understand that it will be part of the existing building - please confirm	Refer Clause 12.7

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389				Request to share the layout drawing with dimension details (Length, Width, Height) of the identified area of Datacenter	Refer Clause 12.7
390				What is the level of redundancy required or Tier expectation for Electrical and Cooling solutions?	Refer Clause 12.7
391				Similarly provide the requirements and details for DR Center.	Refer Clause 12.7
392	52	8.6 Centralized Command and Control Centre	The feed of said Command & Control center shall be provided to JSCL's Centralized Command & Control Center	Please confirm the following	ICCC will be in JMC area and it should be connected through fiber connectivity. Detail architecture and specifications will be shared by JSCL to concessionaire after concessionaire agreement signed.

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393				1. what will be the distance of the feed from CCC	ICCC will be in JMC area and it should be connected through fiber connectivity. Detail architecture and specifications will be shared by JSCL to concessionaire after concessionaire agreement signed.
394				2. If for DC/DR separate feed shall be provided or the same feed as CCC shall be used.	DC feeds to be shared with ICCC
395				3. Please confirm if redundant supply shall be provided for CCC	Refer Clause 12.7 for CCC specs
396				4. For Smart pole, who will provide the power and till what point it shall be provided.	JSCL will provide the power (as per power budget mentioned in intelligent pole specification)

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397	119	12.7.5.13 Online UPS	UPS Specifications	Kindly specify the redundancy requirement for the UPS Systems	<p>As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP</p> <p>Refer Clause 12.7 for specification</p>
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398				Kindly specify the space / room for UPS, Battery and main panel locations with dimension and layout details	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFPRefer Clause 12.7 for specification
399				We assume that required input raw power will be provided by customer at Electrical / UPS room - Please confirm	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or

					<p>better set up as defined in RFP</p> <p>Refer Clause 12.7 for specification</p>
400	120	12.7.5.14 DG Set	DG Set Specifications	Kindly specify the redundancy requirement for the DG Sets	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP Refer Clause 12.7 for specification

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401				Kindly specify the location for DG Set placement	<p>As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP</p> <p>Refer Clause 12.7 for specification</p>
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402				Kindly specify the distance from CCC	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFPRefer Clause 12.7 for specification
403				Kindly specify the location for DG Set placement	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or

					<p>better set up as defined in RFP</p> <p>Refer Clause 12.7 for specification</p>
404	8.10 Helpdesk Setup pg-54	Concessionaire shall deploy helpdesk application accessible to all users through the Smart City portal for logging issues.	How many end users will access helpdesk through web?		The estimation to be done by concessionaire on the basis of project size
405	8.13 Operation & Maintenance pg-58	xiv. All patches and update to any software and hardware devices shall be provided by the Concessionaire without any additional costs.	Is it expected from bidder to do patch management for software & network devices though some tool or bidder can opt to do it manually also?		Concessionaire can propose the scheme. JSCL will have the rights to approve the same
406	8.13 Operation & Maintenance pg-58	xvi. After completing life of equipment, the Concessionaire has to replace them with new hardware / software of same or better specifications free of cost	If software & hardware needs to be replaced during O&M, then it should be considered as change request as it is not possible to predict the proposed tool architecture after 10 years or		As per RFP

		throughout the concession period.	more		
407	8.13 Operation & Maintenance pg-58	During the O&M period, if any hardware or software needs to be replaced, the same will be replaced with same or better OEM and with same or higher configuration free of cost.	If software & hardware needs to be replaced during O&M, then it should be considered as change request as it is not possible to predict the proposed tool architecture after 10 years or more		As per RFP
408	11. Common guidelines/comments regarding the compliance of equipment/systems pg-64	Bidder should ensure that only one make and model is proposed for one component in Technical Bid for example all PTZ cameras must belong to a single OEM and must be of the same model etc.	Can bidder propose EMS/NMS and helpdesk from different OEM or it should be from single OEM.		Yes, The clause refers to the one kind of field device from one OEM.
409	12.5.9 EMS Software for Transport Layer pg-89	10. Common Configuration Management Requirements	Common Configuration Management Requirements would be related to NEs only? Please confirm.		EMS application is not restricted to NE it is for all equipment and services of Smart Pole Solutions

410	12.5.9 EMS Software for Transport Layer pg-89	11. The EMS should be able to provision, configure and manage portfolios of the corresponding sub system.	This point is related to network equipment only. Please confirm. If it is not related to NEs, please elaborate the term provision, configure and manage portfolios of the corresponding sub system. What would be desired functionalities?		The EMS solutions is for service delivery and service support to manage entire IT infrastructure
411	12.5.9 EMS Software for Transport Layer pg-89	12. EMS should allow service and equipment provisioning	Please elaborate the term equipment provisioning? What all desired functionalities are expected from EMS under equipment provisioning?		Please refer EMS application like (Remedy 9)
412	12.5.9 EMS Software for Transport Layer pg-89	18. The NMS system should be able to email or SMS to the users belonging to the roles assigned for the corresponding event type.	Will JSCL provide SMTP & SMS gateway server? Or bidder have to factor this in proposal.		Concessionaire will provide the gateways and server
413	i. SLA & Contract management System pg-121	The solution must support Service Level Agreements & Lifecycle Management including Version Control, Status Control, Effectively and audit Trail to ensure accountability for the project	What exactly is required in this point? What is expected in Lifecycle Management including Version Control, Status Control, Effectively and audit Trail to ensure accountability for the project?		EMS solution at CCC should be capable to support Service Level Agreements & Lifecycle Management including Version Control, Status Control, Effectively and audit Trail to

					ensure accountability for the project
414	i. SLA & Contract management System pg-121	The solution should support SLA Alerts escalation and approval process.	What is expected under approval process? Please explain.		It should generate the report based on alert which can be sent to the authority via email
415	i. SLA & Contract management System pg-121	Accept Data from a variety of formats; provide pre-configured connectors and adapters, ability to define adapters to data source in a visual manner without coding.	Please change this clause as mentioned below- Accept Data from a variety of formats; provide pre-configured connectors and adapters, ability to define adapters to common data sources (MS SQL, Oracle etc.) in a visual manner without coding.		Accepted
416	i. SLA & Contract management System pg-121	Support for defining and calculating service credit and penalty based on clauses in SLAs.	Is it expected to calculate credit & penalty from SLA tool? Or bidder can supply tool to provide inputs which will be used to calculate penalty outside the tool or manually.		It is expected to calculate credit and penalty from SLA tool

417	ii. Reporting pg-121	Ability to generate reports on penalty and credit due, to check on non-compliance of SLAs for the surveillance project	Is it expected to calculate credit & penalty from SLA tool? Or bidder can supply tool to provide inputs which will be used to calculate penalty outside the tool or manually.		It is expected to calculate credit and penalty from SLA tool
418	ii. Reporting pg-121	Ability to generate reports on penalty and credit due, to check on non-compliance of SLAs for the surveillance project	Please change this clause as mentioned below if penalty calculation will be performed manually-Ability to generate reports on SLA parameters for further use of penalty calculation outside the tool.		Accepted
419	14.1 TimelineforDelivery pg-190	2. Installation, Configuration Integration of Hardware/ Software/ systems	Timelines should be increased at least 32 weeks after delivery of hardware & software as 8 weeks is very less to install and configure EMS/NMS & helpdesk software which requires lot of configuration to meet the requirements in RFP.		As per RFP
420	General Query		Is HA expected for EMS/NMS & Helpdesk solution? Or Can Bidder go with DR only as mentioned in RFP?		Yes HA is mandatory

421	12.7 Command and Control Centre	12.7 Command and Control Centre	As per section 8.6, Scope of work indicated to establish command & control center (CCC) in the concessionaire preferred location, given specifications are not binding to concessionaire but the command and control center infrastructure should have the similar or better set up as defined in RFP		<p>ICCC will be built in JMC area, and CCC to ICCC connectivity will be provided by concessionaire.</p> <p>Before the ICCC go live, Concessionaire has to provide the access to JSC to see the live data and dashboards of CCC. 10 nos. of user ids and password to be created by concessionaire to JSCL to view the data on web based application till the ICCC set up go live JSCL will have the rights to visit the CCC to inspect the infrastructure and operations any time during the concession period</p>
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The below clauses of the RFP JSCL/2017/35 is modified and should read as below table.

12.8 L2+ 8 Ports Managed PoE Switch

S.No	Item	Specifications	Compliance (Yes/No)
1	General Features	The switch should be Industrial Grade in nature that provides minimum 8 x 10/100/1000 BASE-TX PoE access ports, additional 2 x 1000 Base-X SFP & 2x 1GE Uplink ports. Single mode SFP should be supplied with the switch.	
2		Switch should have non-blocking wire-speed architecture with support for both IPv4 & IPv6 from day one with wire rate switching fabric of minimum 16 Gbps or more. Switch should have minimum 1GB RAM/DRAM & 1GB removable flash card.	
3		The switch should support backup storage drives, which will store the last known configuration of the switch, in case of hardware failure and replacement, reinserting the storage drive should restore the switch to original working condition without any manual intervention.	
4	Layer 2 Features	802. 1Q VLAN on all ports with minimum 10k MAC address	
5		Spanning Tree Protocol as per IEEE 802.1d, ring protection protocol like REP or equivalent	

6		Switch should support IGMP v1/v2/v3 & upto 1000 IGMP groups as well as IGMP snooping & IGMP filtering. Should also support MLD v1 &MLD v2.	
7		Static, Inter-VLAN routing must be enabled from day one	
8	Layer 3 Features	Switch should support Dynamic Routing – RIPv1/v2, OSPF for both IPv4 & IPv6, BGP, PBR, network address translation etc. protocol by enabling/upgrading the license as & when required.	
9	Quality of Service (QoS) Features	Switch should support classification and scheduling as per IEEE 802.1P on all ports with minimum four egress queues per port	
10		Switch should provide traffic shaping and rate limiting features for specified Host, network, Applications etc.	
11	Security Features	Switch should support ACLs, Extended IP ACLs, support RADIUS and TACACS+ for access restriction and authentication.	
12		Should support a mechanism to shut down Spanning Tree Protocol Fast-enabled interfaces when BPDUs are received to avoid accidental topology loops.	
13		Switch should support static ARP, Proxy ARP, UDP forwarding and IP source guard, DHCP Snooping, DHCP Option 82, Dynamic ARP Inspection (DAI), IP Source Guard, Network Address Translation, BPDU Guard, Port-Security, DHCP Snooping, 802.1x, 802.1AE, MAC Authentication Bypass, 802.1x Multi-Domain Authentication, Storm Control	

14	Management Features	Support for Automatic Quality of Service or equivalent for easy configuration of QoS features for critical applications.	
15		Switch should support PTP, FTP/TFTP, PTP	
16	Mechanical Conditions:	• -5 to +70°C continuous operating temperature range	
17		• Operating relative humidity: 5% to 95% no condensing	
18		Protection Class -minimum IP 30, NEMA TS-2	
29	Certifications	Switch should be EN 55022A Class A, VCCI Class A, KN22 certified	
20		Switch should support CIP Ethernet/IP	
21		EN 61000-4-2 Electro Static Discharge, EN 61000-4-4 Electromagnetic Fast Transients, EN 61000-4-5 Surge, EN 61000-4-8 Power Frequency Magnetic Field, EN 61000-4-11 AC Power Voltage, EN-61000-4-29 DC Voltage Dips, EN 61326 Industrial Control, EN50155 Railway - Electronic Equipment on Rolling Stock (EMC, ENV, Mech), IEC 60068-2-27, IEC 60068-2-6, IEC 60068-2-64, EN 61373	

12.4.1.2 Access Point

Sr. No.	Specifications	Compliance (Yes/No)
1	With the proper power sourcing the outdoor access point must support 3X3 multiple-input multiple-output (MIMO) with two spatial streams which can support more than 1 Gbps of data rate.(With Power Injector)	

2	The Access points must support the EIRP as per WPC norms.	
3	For easy and on field trouble shooting and maintenance, the proposed Access points should have a local console port (RJ45).	
4	The outdoor access point should have an optical fiber-based network connectivity support for high bandwidths and to support long distances on outdoor deployment.	
5	Access Points proposed must include radios for both 2.4 GHz and 5 GHz.	
6	AP should support dual band antenna ports.	
7	Must have -99 dB or better Receiver Sensitivity.	
8	Must support 802.11ac, Wave 2 and backward compatible with 802.11n standards	
9	Must support upto 28dbm or higher of transmit power for both the radios	
10	Access point should 802.11ac, 802.11n and 802.11a/b/g Beamforming	
11	Must support QoS and Video Call Admission Control capabilities.	
12	The outdoor access points must be rated IP67 weather protection or higher.	

List of JMC offices that need to be connected via OFC:

S.No	Name
1.	Head Office
2.	Zonal Office 1 to 15 (Address is mentioned in page no 188)
3.	Gokul Das Dharamshala
4.	Lalpur Treatment Plant
5.	Ranjhi Treatment Plant
6.	Bhavartal Udyan Vibhag
7.	Over Head Water Tank 1 to 5
8.	Teen Patti Fire Station
9.	Ranjhi Fire Stations
10.	Adhartal Fire Station
11.	Waste to Energy Kathonda

List of JMC locations that need Surveillance:

S.No	Name
1.	Head Office
2.	Zonal Office 1 to 15 (Address is mentioned in page no 188)
3.	Over Head Water Tank 1 to 5
4.	Teen Patti Fire Station
5.	Ranjhi Fire Stations
6.	Adhartal Fire Station



Smart City
MISSION TRANSFORM-NATION

Jabalpur Smart City Limited

CIN- U75100MP2016SGC035536

Reg. Office- Commissioner, Nagar Nigam Office, Jabalpur, M.P- 482001

S.NO.	Zone	Name	Mobile/ Phone	Near Landmarks
1	01 Garha	G. S. Chandel	9685043276 / 2672278	Garha Bazar, NIC Centre, Collector Office 6.1 Km
2	02 Kachhpura	Rajesh Goswami	9685043277 / 2671450	Garha Bazar, In Front Of Garha Zone NIC Centre, Collector Office 6.1 Km
3	03 Rampur	S. K. Bawale	9685043278 / 2671195	Near Shakti Bawan, NIC Centre, Collector Office 6.0 Km
4	04 Chhoti Line Fatak	Kuldeep Tiwari	9685043279 / 2660776	in front of chhoti Line Fatak, NIC Centre, Collector Office 3.8 Km
5	05 Sanjay Gandhi Market	Anurag Pathak	9685043280 / 2651120	Near Baldevbag, NIC Centre, Collector Office 2.5 Km
6	06 Kchetriya bus stand	Rakesh Tiwari	9685043499 / 2650044	Near Damohnaka, bus stand, NIC Centre, Collector Office 4.0 Km
7	07 Adhartal	Shalendra Mishra	9685043282 / 2460101	Near Hanuman mandir, NIC Centre, Collector Office 6.0 Km
8	08 Bhanataliya	Rajesh Gupta	9685043283 / 2651947	Near Khairmai Mandir, NIC Centre, Collector Office 2.0 Km
9	09 Lal Maati	S.K. Asati	9685043284 / 2620925	Near Chandmari Ki Talaiya, Siddh Baba Road, NIC Centre, Collector Office 4.0 Km
10	10 Ranjhi	P. N. Sankhere	9685043290 / 2633409	Near patrol Pump, NIC Centre, Collector Office 8.0 Km
11	11 Raja Gokuldas Dharmshala	Umesh Topre	9685043516 / 2624859	Near Indra Market, NIC Centre, Collector Office 1.5 Km
12	12 Ghantaghar	Mahendra Uikey	9685048292 / 2624288	Near Noudra Pul, NIC Centre, Collector Office 1.2 Km
13	13 Head Office	Bahubali Jain	9685048293 / 2400280	Teen Patti Choraha, NIC Centre, Collector Office 2.0 Km
14	14 Vijay Nagar	Aditiya Shukla	9685043883	Near Baldevbag, Vijay Nagar, NIC Centre, Collector Office 4.0 Km
15	15 Suhagi	Devendra Singh Chouhan	8269734625	In front of agriculture college, NIC Centre, Collector Office 7.0 Km



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Below is the link for Energy Audi:

<http://jscljabalpur.org/wp-content/uploads/2016/12/Final-DPR-Report-JMC-1-.pdf>