

Response to Pre-Bid Queries for Creation of OFC Network for BRTS Corridor and other important SMC Locations [SSCDL-ConnectedSurat-OFC-RFP-01-2017]

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Tender No : SSCDL-ConnectedSurat-OFC-RFP-01-2017

#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
1	Vol- 1	3	8	EMD	<p>Bid Fee (Non-refundable)                      - Rs.18000/- by Demand Draft or Banker's Cheque EMD                      - EMD of Rs. 40, 00,000 (Rupees Forty lakhs only) whereby 50% amount shall be in the form of Demand Draft / Banker's Cheque in favour of "Surat Smart City Development Limited" , from Nationalized or Scheduled bank and 50 % amount shall be in the form of Bank guarantee of any nationalized / scheduled banks with validity of 180 days from the date of Bid opening.</p>	<p>We are MSME Registered Company under Single point registration &amp; prevails exemption of Bid Fees &amp; EMD under Government Of India guidelines to promote MSME's. Following Documents attached for reference. Kindly Clarify &amp; guide</p> <p>- Copy of NSIC Registration in category                      - Government of India - guidelines in ref to above</p>	<p>RFP terms &amp; Conditions prevail</p>

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2	Vol- 1	Point No 7	9	Date Extension	Online Price Bid End Date. To be submitted online only on <a href="https://smc.nprocure.com">https://smc.nprocure.com</a> on or before 26.05.2017 up to 18:00 hrs.	We have a consortium and we intend to provide the best solution. So we would request an extension of the bidding due date for 4 weeks.	Please refer to Addendum & Corrigendum-1
3	Vol- 1	Point No 7	9	Date Extension	Last date for submission	Pls give 3 Weeks time for submission from date of last corrigendum/amendment. This much time is surely required to prepare solution and bid	Please refer to Addendum & Corrigendum-1
4	Vol- 1	Point No 7	9	Date Extension	Online Price Bid End Date. To be submitted online only on <a href="https://smc.nprocure.com">https://smc.nprocure.com</a> on or before 26.05.2017 up to 18:00 hrs.	We request you to extend the date of bid submission further by at least 2 weeks.	Please refer to Addendum & Corrigendum-1
5	Vol- 1	Point No 7	9	Date Extension	Last date for submission	Pls give 3 Weeks time for submission from date of last corrigendum/amendment. This much time is surely	Please refer to Addendum & Corrigendum-1

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						required to prepare solution and bid	
6	Vol- 1	6	13	Pre-Qualification	The Prime Bidder/Sole Bidder should be registered under the companies act 1956 & should be in operation in India for a period of at least 5 year as on publication date	Suggest list of document required to submit in order to substantiate eligibility of bidder - who have taken over running business of proprietorship business & turned to company recently on 27-Nov-2015. All other financial/technical are acquired in name of new firm. List of documents attached for same - MOA - Agreement Deed - Declaration/Affidavit - may be furnished in name of agency, if required.	RFP terms & Conditions prevails.

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7	Vol- 1	6	13	Pre-Qualification - Fiber Laying	Bidder or any member of consortium should have completed laying, installation commissioning and maintenance of following in last 7 Years from the date of issuance of this RFP	While we have immense experience in Telecom infrastructure implementation, we request you to allow us to showcase the experience of our Group company for fiber implementation. Hence we request you to frame the clause as following; "Any consortium partner or Single Bidder or Group Company of single Bidder / consortium partner should have completed laying, installation commissioning and maintenance of following in last 7 Years from the date of issuance of this RFP"	RFP terms & Conditions prevail

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8	Vol- 1	6	15	Pre-Qualification - WAN Nodes	Bidder or any member of consortium should have executed project(s) in India whereby 100 WAN nodes are connected and maintained with active components in last 7 years from the date of issuance of this RFP	Kindly change the clause to " Bidder or any member of consortium should have executed project(s) in India whereby 100 WAN / Telecom nodes are connected and maintained in last 7 years from the date of issuance of this RFP"	Please refer to Addendum & Corrigendum-1. This clause will be read as "Bidder or any member of consortium should have executed project(s) in India whereby 100 WAN / Telecom nodes are connected and maintained in last 7 years from the date of issuance of this RFP"Note: For Telecom nodes the experience of connecting BTS towers/POPs will only be considered for evaluation

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9	Vol- 1	6	15	Pre-Qualification - WAN Nodes	Bidder or any member of consortium should have executed project(s) in India whereby 100 WAN nodes are connected and maintained with active components in last 7 years from the date of issuance of this RFP	While we have immense experience in Telecom infrastructure implementation, we request you to allow us to showcase the experience of our Group company for fiber implementation. Hence we request you to frame the clause as following;  "Any consortium partner or Single Bidder or Group Company of single Bidder / consortium partner should have executed project(s) in India whereby 100 WAN nodes are connected and maintained with active components in last 7 years	Please refer to Addendum & Corrigendum-1. This clause will be read as  <i>"Bidder or any member of consortium should have executed project(s) in India whereby 100 WAN / Telecom nodes are connected and maintained in last 7 years from the date of issuance of this RFP"</i>  Note: For Telecom nodes the experience of connecting BTS towers/POPs will only be

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						from the date of issuance of this RFP"	<i>considered for evaluation</i>
10	Vol- 1	6	15	Pre-Qualification - WAN Nodes	Bidder or any member of consortium should have executed project(s) in India whereby 100 WAN nodes are connected and maintained with active components in last 7 years from the date of issuance of this RFP	Does it means -compulsory for both - Deployment of 100 WANS & O&M of those WAN points Or it is either of them. Kindly clarify	Please refer to Addendum & Corrigendum-1. This clause will be read as  <i>"Bidder or any member of consortium should have executed project(s) in India whereby 100 WAN / Telecom nodes are connected and maintained in last 7 years from the date of issuance of this RFP"</i>  Note: For Telecom nodes the experience of connecting BTS

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							<i>towers/POPs will only be considered for evaluation.</i>
11	Vol- 1	6	15	Pre-Qualification - WAN Nodes	Bidder or any member of consortium should have executed project(s) in India whereby 100 WAN nodes are connected and maintained with active components in last 7 years from the date of issuance of this RFP	We request to allow bidders to showcase their experience in LAN node execution. We request to amend the clause as: Bidder or any member of consortium should have executed project(s) in India whereby 100 WAN nodes/500 LAN nodes are connected and maintained with active components in last 7 years from the date of issuance of this RFP	Please refer to Addendum & Corrigendum-1. This clause will be read as  <i>"Bidder or any member of consortium should have executed project(s) in India whereby 100 WAN / Telecom nodes are connected and maintained in last 7 years from the date of issuance of this RFP"</i>  Note: For Telecom nodes the experience of connecting BTS



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							<i>towers/POPs will only be considered for evaluation</i>
12	Vol- 1	7.6	19	Consortium Condition		We request department to mandatorily ask one consortium partner to be an ISP provider with following valid licenses 1) Class A License 2) NLD License Since scope of work includes provision of lease circuits and also monetization of ducts it is recommended that one partner has to be an ISP provider/ Telco with necessary license which would ultimately help SMC in achieving project objective of monetization of ducts with more flexibility and also to have compliance requirement	RFP terms & Conditions prevail

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						<p>from DoT getting satisfied .                      NLD Licenses is mandatory                      DoT compliance requirement                      to give point to point lease                      circuits. Since the project has                      scope of provision for lease                      circuits it will be necessary for                      ISP partner to have NLD                      licenses. So requesting you to                      keep NLD licenses as                      mandatory requirement.                      As per clause (d) chapter X —                      National Long Distance                      Service of the unified license                      agreement issued by                      Department of                      Telecommunication the NLD                      license holder can only                      provide lease circuits / VPN                      Services.  <a href="https://dot.gov.in/sites/default">https://dot.gov.in/sites/default</a></p>	

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						t/files/Unified%20Licence_0.pdf	
13	Vol- 1	7.6	19	Consortium Condition	The bidder cannot be a member of more than one bidding consortium.	We request you to relax/remove this clause for ISP partner and allow ISP partner to have consortium formation with multiple Lead bidders as the considering the scope of work, legal compliances, etc. it is likely that lead bidder shall have limited choices for ISP provider and allowing ISP partner to have consortium with multiple Lead bidder will increase flexibility and competitiveness in the bid.	RFP terms & Conditions prevail

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14	Vol- 1	7.10	23	EMD	EMD of Rs. 40, 00,000 (Rupees Forty lakhs only) whereby 50% amount shall be in the form of Demand Draft / Banker' s Cheque in favour of "Surat Smart City Development Limited" , from Nationalized or Scheduled bank and 50 % amount shall be in the form of Bank guarantee of any nationalized / scheduled banks with validity of 180 days from the date of Bid opening.	Please allow bidders to submit the full amount of EMD of Rs 40,00,000 in the form of Bank Guarantee.	RFP terms & Conditions prevail

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15	Vol- 1	7.10	23	EMD	EMD of Rs. 40, 00,000 (Rupees Forty lakhs only) whereby 50% amount shall be in the form of Demand Draft / Banker' s Cheque in favour of "Surat Smart City Development Limited" , from Nationalized or Scheduled bank and 50 % amount shall be in the form of Bank guarantee of any nationalized / scheduled banks with validity of 180 days from the date of Bid opening.	As we are submitting the EMD in the form of BG, our banker requires the following details from the Beneficiary bank: 1) Name of Beneficiary: 2) Name of Bank : 3) Bank address : 4) Bank Account No : 5) IFSC CODE : 5) MICR CODE : 6) BRANCH CODE : As per the guidelines we require the above details for issuing the Bank Guarantee. Request you to provide the details.	Please refer to Addendum & Corrigendum-1
16	Vol- 1	7.10	23	EMD	Bid Fee and Earnest Money Deposit (EMD) and amount	Suggest to accept EMD as FD instead of DD.	RFP terms & Conditions prevail

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17	Vol- 1	7.11	24	Bid Submission	In sealed envelope strictly by RPAD/Postal Speed Post on or before 31.05.2017 up to 18:00 hrs. to the Chief Accounts, Surat Municipal Corporation, Muglisara, Surat — 395003	We request to allow bidders to submit the hard copy of technical bid along with EMD and tender fee by Courier and In-hand also. Kindly amend the clause as:In sealed envelope strictly by RPAD/Postal Speed Post/Courier/in-hand on or before 31.05.2017 up to 18:00 hrs. to the Chief Accounts, Surat Municipal Corporation, Muglisara, Surat — 395003	RFP terms & Conditions prevail
18	Vol- 1	7.15	26	Taxes		Change in Law clause should be included as GST is approaching.	The taxes are payable as per actuals. Please refer RFP Vol.-1, Section 7.15.

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19	Vol- 1	7.24	30	TQ-WAN Nodes	<p>If bidder (Any member of consortium who has been allocated responsibility of the component as per responsibility matrix) has executed project(s) in India whereby 100 WAN nodes are connected and maintained with active components in last 7 years from the date of issuance of this RFP then the bidder will get 70 marks.</p> <p>For every additional project(s) in India whereby 50 WAN nodes are connected and maintained with active components in last 7 years bidder will get 10 marks,</p>	<p>We request to amend the clause as: If bidder (Any member of consortium who has been allocated responsibility of the component as per responsibility matrix) has executed project(s) in India whereby 100 WAN nodes/500 LAN nodes are connected and maintained with active components in last 7 years from the date of issuance of this RFP then the bidder will get 70 marks.</p> <p>For every additional project(s) in India whereby 50 WAN/100 LAN nodes are connected and maintained with active components in last 7 years</p>	<p>Please refer to Addendum &amp; Corrigendum-1. This clause will be read as "Bidder or any member of consortium should have executed project(s) in India whereby 100 WAN / Telecom nodes are connected and maintained in last 7 years from the date of issuance of this RFP"</p> <p>Note: For Telecom nodes the experience of connecting BTS towers/POPs will only be</p>

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					subject to a maximum of 100 marks.	bidder will get 10 marks, subject to a maximum of 100 marks. 1. = > 250 WAN nodes/800 LAN nodes- 100 Marks 2. = 200 WAN nodes/700 nodes- 90 marks 3. = 150 WAN nodes/600 nodes- 80 marks 4. = 100 WAN nodes/500 nodes- 70 marks	considered for evaluation
20	Vol- 1	7.24	31	TQ - People in Organisation	If the bidder (Lead bidder in case of Consortium) has at least 100 FTE (full time employees) on the payroll of organization working on telecom / optic fiber / network projects then the bidder will get 70 marks	If the bidder (Any Members of Consortium) has at least 100 FTE (full time employees) on the payroll of organization then the bidder will get 70 marks	Please refer to Addendum & Corrigendum-1. This clause will be read as



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21	Vol- 1	7.26	33	Commercial Bid Evaluation	<p>Since the payments to the SI will be made over several years, the Discounted Cash Flow (DCF) method will be used to compare different payment terms, including advance payments and progressive stage payments to the SIs so as to bring them to a common denomination for determining lowest bidder. The DCF is defined in the Glossary of Management and Accounting Terms, published by the Institute of Cost and Works Accountants of India. DCF method would be used for evaluation of bids. Detailed modalities for applying DCF technique are as below: Net Present Value</p>	<p>Will the calculations undertaken by the department using DCF method for the concerned bidder be made available to the same bidder? Please clarify.</p>	<p>Standard software for example 'Excel' , 'or any other spreadsheet will be used for NPV analysis by SMC / SSCDL. Further, a separate excel with formulas will also be uploaded by SSCDL / SMC where bidder can use it for their calculations and verification.<i>Please refer to Addendum &amp; Corrigendum-1.</i></p>

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					(NPV) method will be used for evaluation of the Commercial Offer. The Net Present Value of a contract is equal to the sum of the present values of all the cash flows associated with it. The formula for calculating NPV of a Commercial Offer is illustrated below.		
22	Vol- 1	7.26	33	Commercial Bid Evaluation	SSCDL will award the Contract to the Bidder based on Lowest Quoted price (L1).	Please clarify the financial evaluation criteria.  We understand that it will be following; F = Revenue-NPV of (Capex+Opex)  The bidder who has the max value (F) will be awarded the contract.	Please refer to Addendum & Corrigendum-1

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						However, in this case it will not be the L1 bid. Please clarify!	
23	Vol- 1	7.27	34	OEM Criteria	OEMs who are present in the latest Magic Quadrant (challengers or leaders) by Gartner.	It has been mentioned in the RFP that the OEM for IP-MPLS Routers should be listed in the Gartner Magic Leaders Quadrant. We request you to modify this clause and remove Gartner reference as the only consideration for qualification criteria. For quality and mass participation with cost effective solution proposal we request you to also consider international and reputed analyst reports also like IDC, Dell OroGroup, Ovum or ACG research wherein OEM should be in Top 5 Routing vendors	Please refer to Addendum & Corrigendum-1.

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						rankings globally. Surat Smart City is creating a Carrier grade, mission critical IP/MPLS network on which several applications such as SCADA, Surveillance, and ANPR will ride. Globally customers building similar networks rely on IDC, Dell OroGroup, Ovum or ACG research reports when selecting their OEM for IP-MPLS Routers. All these rating agencies are of International Repute. We therefore request you to please consider and allow wider participation of key Global OEM's who are in top-5 Routing vendors globally and capable to bring	

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						this technology with cost effective approach.	
24	Vol- 1	7.27	34	OEM Criteria	Bidder to ensure that the proposed OEM(s) are based on following criteria	The Gartner Magic Quadrant will limit the number of OEMs and will reduce the competition. There are OEMs who may fulfil the specifications criteria and are not in the Magic Quadrant. Hence, we request you to allow the bidder to select OEMs outside Gartner's Magic Quadrant.	Please refer to Addendum & Corrigendum-1.
25	Vol- 1	8	40	SLA	SLA Matrix for Post Implementation SLAs	As per industry standard SLA calculation are quarterly and not monthly, even payment terms are also quarterly. SLA calculation and payment cycle should be the same. Hence request to change penalty	RFP terms & Conditions prevail

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						calculation quarterly in place of monthly	
26	Vol- 1	8	40	SLA	SLA Matrix for Post Implementation SLAs	Penalty start with 5% penalty which is too high, request to reduce it to 1%/2%	RFP terms & Conditions prevail
27	Vol- 1	8.22	40	SLA	Equipment Availability (EA)	Since in SLA network availability uptime is already asked, Equipment availability suppose not to there as ultimate aim of this project is availability of Network and not individual hardware. Hence request you to remove this penalty clause. Alternatively SMC can ask for response/resolution time for specific hardware	RFP terms & Conditions prevail
28	Vol- 1	8.2.2	40	SLA		We understand that the penalty will be imposed in the	Please refer RFP Vol.-1, Section 8, Point-b.

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						scenario where Bidder will be solely attributable.	
29	Vol- 1	8.2.2	40	SLA	SLA specified for Network Availability (NA), Mean Time To Repair (MTTR) - for each Fiber failure, Mean Time To Repair (MTTR) - for each non-Fiber failure	Will these penalties for calculated on cumulative basis while calculation O&M payment , i.e., will the penalties add up for all parameters where criteria is not met	For each parameter defined in section 8.2.2, all applicable penalties will be calculated and then added up to derive total penalties to be imposed in a Quarter.
30	Vol- 1	9.2	44	Business Model	SSCDL is allowing the bidder to monetize the additional duct for the period of 21 years. For monetization purpose, SSCDL will provide only the additional duct, necessary provisioning with regards to active and passive components has to be done by the SI on its own. However, the total duration of the	1).As per business model please clarify how many ducts are allowed for the SI in the BRTS corridor. 2) kindly clarify the Successful bidder should have the exclusive right for the 21 years under one dig policy and no other Telecom / SI will be allowed to layoff the Fiber in the same BRTS corridor	Please refer to Addendum & Corrigendum-1 for revised Business model and clarity on RoW/ restoration charges

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					project for laying and maintenance of the network for SMC location shall only be for 7 years		
31	Vol- 1	9.2	44	Business Model	SSCDL desires to lay additional duct across the BRTS corridor network to create a means for revenue generation through duct leasing.	Can SI put 3 empty ducts instead of 1 duct as part of monetization initiatives.  Further, we request SSCDL to allow bidder to monetize fiber along with the empty ducts.	Please refer to Addendum & Corrigendum-1 for revised Business model and clarity on RoW/ restoration charges
32	Vol- 1	9.2	44	Business Model	SI shall be allowed to propose the additional revenue streams as part of its bid submission as per the RFP terms & conditions, apart from the ones mentioned above.	We understand that the bidder will be allowed to generate revenue from the following components in-line with additional revenue generation; > Public Wi-Fi on the BRTS Bus Stops, Government buildings and other fiber locations > intelligent poles to install	Please refer to Addendum & Corrigendum-1 for revised Business model and clarity on RoW/ restoration charges



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						<p>Access Points and monetize it by installing telecom equipment.</p> <p>&gt;It is assumed that ROW and Rent for lpoles is not Charged by SMC. Property tax will not be applicable for Intelligent Poles.</p> <p>&gt; Advertisement on the erected poles</p>	
33	Vol- 1	9.2	44	Business Model	SSCDL is allowing the bidder to monetize the additional duct for the period of 21 years.	<p>Please confirm the contract period is for 7 years and monetization is for 21 years.</p> <p>What if after 7 years the existing SI will not be awarded the contract.</p>	The Contract terms will ensure that even after 7 years, the bidder will have rights to monetize the additional duct for the period next 14 years.
34	Vol- 1	9.2	44	Business Model	For any additional revenue streams allowed, SI shall share the quoted value and quoted percentage (%) of the net	What will be the minimum % to be quoted. Is there any limit be fixed.	Please refer to the RFP all necessary information is mentioned

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					revenue to SSCDL (net of taxes).		
35	Vol- 1	9.3	44	Payment Schedule	Cn is defined as: $\frac{1}{4} * ( \text{Higher value among 'Committed Revenue in absolute rupee terms for the nth year after "Go-Live" ' and 'Value derived from the percentage revenue share for the nth year after "Go-Live" ' } ) - \frac{1}{4} * ( \text{Cost of Operations and Maintenance Services for the nth year after "Go-Live" } )$	There is no provision of quoting revenue share in % in the financial bid format. Please clarify!	Please refer to section 12.2 of the RFP. Bidder is required to quote both in percentage and absolute value for committed revenue.

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
36	Vol- 1	9.3	44	Payment Schedule	<p>i. SSCDL shall use the following payment milestones:</p> <ul style="list-style-type: none"> <li>- 10% of CAPEX against supply, installation and commissioning of Network Operating Centre (NOC)</li> <li>- 30% of CAPEX against the Go Live of Core ring</li> <li>- 30% of CAPEX against Go Live of Complete Network</li> <li>- 10% of CAPEX after 3 months of running of network</li> <li>- 20% of CAPEX in equal half yearly instalments in 1 year after Go Live of complete network</li> <li>- OPEX projected by SI in their commercial bid will be paid in equally in 28 quarters</li> <li>- The SI will pay SSCDL</li> </ul>	<p>We request to dilute the payment terms in line to the other smart cities project e.g. Kakinada, Vizag, Ahmedabad etc. Kindly modify the payment terms for CAPEX as</p> <p>i. SSCDL shall use the following payment milestones:</p> <ul style="list-style-type: none"> <li>- 50% of CAPEX against supply as per BoM</li> <li>- 10% of CAPEX against installation and commissioning of Network Operating Centre (NOC)</li> <li>- 10% of CAPEX against the Go Live of Core ring</li> <li>- 10% of CAPEX against Go Live of Complete Network</li> <li>- 20% of CAPEX after 3</li> </ul>	RFP terms & Conditions prevail

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					revenue (minimum committed revenue or the committed % of the revenue generated by SI, whichever is higher) on quarterly basis within 15 days on completion of quarter	months of running of network - OPEX projected by SI in their commercial bid will be paid in equally in 28 quarters - The SI will pay SSCDL revenue (minimum committed revenue or the committed % of the revenue generated by SI, whichever is higher) on quarterly basis within 15 days on completion of quarter	
37	Vol- 1	9.3	44	Payment Schedule		20% Mobilisation advance of CAPEX.	RFP terms & Conditions prevail
38	Vol- 1	9.3	44	Payment Schedule		Supply: - 100% payment against supply of material (After advance adjustment).	RFP terms & Conditions prevail
39	Vol- 1	9.3	44	Payment Schedule		Services: - 70% further payment on completion of OSP service work and 30% on Go live.	RFP terms & Conditions prevail

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40	Vol- 1	9.3	44	Payment Schedule		O&M payment terms should be at beginning of the Qtr.	RFP terms & Conditions prevail
41	Vol- 1	9.2	44	Monetisation	SSCDL is allowing the bidder to monetize the additional duct for the period of 21 years.	Being a PSU under Ministry of Information & Broadcasting, We would request SMC to kindly remove the monetizing component of the project and make it a project with SITC with O&M of 7 years only	RFP terms & Conditions prevail
42	Vol- 1	12.1	71	General Instructions	The price quoted for the items shall be exclusive of RoW but inclusive of Restoration charge / Road Reinstatement (RI charge) to be incurred for this project. The RI charge shall be reimbursed quarterly on actual basis.	Regarding ROW, will it be provided at free of Cost by SMC? If not, what would be the ROW Cost.  Regarding RI charges, would it be calculated based on the HDD method?	Please refer to Addendum & Corrigendum-1 for revised Business model and clarity on RoW/ restoration charges
43	Vol- 1	12.1	71	General Instructions	The price quoted for the items shall be exclusive of RoW but inclusive of Restoration charge / Road Reinstatement	RoW charges is not be quoted in the financial bid, we request necessary permission will also be given by SSCDL.	Please refer to Addendum & Corrigendum-1 for revised Business model

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
					(RI charge) to be incurred for this project.		and clarity on RoW/ restoration charges
44	Vol- 1	12.1	71	ROW / RI	The price quoted for the items shall be exclusive of RoW but inclusive of Restoration charge / Road Reinstatement (RI charge) to be incurred for this project. The RI charge shall be reimbursed quarterly on actual basis. The restoration charges are as below:	Pls advice how resotation charges will be calculated in case of HDD and micro trenching where resotation is very less or not at all	Please refer to Addendum & Corrigendum-1 for revised Business model and clarity on RoW/ restoration charges
45	Vol- 1	12.2.4	77	Commercial Bid Format - Schedule III	12.2.4. Schedule III : O&M for Passive Components -O&M of OFC Network for BRTS Corridor and other important SMC Locations for 118 km Length including last mile connectivity	OFC Network for BRTS Corridor and other important SMC Locations length as per section 12.2.2 is 124 Kms ( 96 F - 32 Km, 48 F - 82Km , 12 F - 6 Km ) while in section 12.2.4 IO&M is supposed to do for OFC length of 118 KM , which means this excludes 6	Please refer Addendum & Corrigendum-1

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						Km of 12 F fiber , pls clarify if this 12 F fiber O&M also needs to be done	
46	Vol- 1	13.2	82	Activities for Implementation	Placing of Single Lid Hand Holes cast-in-situ with size 1M(L)*1M(W)*1.2M(D), scope includes transportation, loading, unloading & excavation of pit for the hand-holes at an interval of every 200 Mtrs or wherever applicable for city limit, continuity of armour (in case of armour cable), PCC of 100 MM below handhole.	Suggest to have Dual-Lid HH, As Single Lid HH will not be practically workable for 1 Meter Width and 1 Meter Length .	Please refer Addendum & Corrigendum-1.

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
47	Vol- 1	13.2	82	Activities for Implementation	Placing of Single Lid Hand Holes cast-in-situ with size 1M(L)*1M(W)*1.2M(D), scope includes transportation, loading, unloading & excavation of pit for the hand-holes at an interval of every 200 Mtrs or wherever applicable for city limit, continuity of armour (in case of armour cable), PCC of 100 MM below handhole.	Kindly share the Drawing of Handhole .	SI has to provide it and SMC / SSCDL will approve the design.
48	Vol- 1	13.2	82	Activities for Implementation	4.2 Supply, Transportation & Installation of Route Marker	Kindly confirm the distance between two Route Marker .	At every 100 Mtr. Please refer Section - 7.22 in Vol - 2 of RFP.
49	Vol- 1			ROW / RI	ROW	We understand for this project SMC will waive off ROW charges or Bidder has not to pay ROW charges. Since one duct monetisation is for 21 Years so ROW waiver will be	Please refer to Addendum and Corrigendum 1 for clarification



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						for project period or for 21 Years	
50	Vol- 1			General		Can SI put Telecom poles as part of monetization initiatives under this project at each BRTS Bus Stop. If yes, would it be rent-Free or on chargeable basis? If chargeable, what would be the rentals.	Bidder may connect using 2nd duct (monetisation duct) however, bidder is required to take permission in advance with complete drawings. Further, there will be no waiver in additional ROW /RI charges incurred to connect the telecom poles  Since monetisation duct will be used for connecting poles, bidder is required to share the revenue incurred

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51	Vol- 1			General		<p>We request SSDL to provide following information so as to allow us to prepare an effective Techno-commercial proposal;</p> <ul style="list-style-type: none"> <li>&gt; Total number of km fiber envisaged</li> <li>&gt; The locations along with lat-long of following;                             <ul style="list-style-type: none"> <li>&gt; Bus Stops</li> <li>&gt; Government Buildings</li> <li>&gt; Other locations(government buildings) to be connected with fiber</li> </ul> </li> <li>&gt; Map of entire fiber route</li> </ul>	<p>The required information already uploaded along with RFP. Kindly refer to the same for details</p>

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52	Vol- 1			General		To enhance the telecom connectivity in the project area the bidder should be allowed to connect its nearby telecom towers with the optical fiber	Bidder may connect usind 2nd duct ( monetisation duct) however, bidder is required to take permission in advance with complete drawings. Further, there will be no waiver in additional ROW /RI charges incurred to connect the telecom polesSince monetisation duct will be used for connecting poles, bidder is required to share the revenue incurred
53	Vol- 1			General		Please clarify if the Technical bids will be opened on the	The date of opening will be intimated to bidder

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						same day as the last date of Technical Bid submission	
54	Vol- 2	3.1	7	Scope - Laying of Additional Duct		<p>We request SMC to add laying of additional 2 ducts with the scope to have better committed revenue by bidder.</p> <p>Since monetization is to be done for 21 yrs and also SMC is depending on CAPEX it will be better to add additional ducts to have better ROI and to generate more revenue streams for monetization . This will have marginal increase in CAPEX Cost but benefits envisaged are high.</p>	SMC/SSCDL to decide

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
55	Vol- 2	4.1	9	Core Layer	The Core architecture shall be formed in full ring topology to handle single point of failures (1CNO).	Out of 4 Core Nodes, NOC & CCC being a critical Nodes , Suggest to have 2CNO to be planned at least between NOC/POP to CCC/POP Section. Kindly confirm . If Yes , then include the OSP length in the Schedule-I.	RFP terms & Conditions prevail
56	Vol- 2	4.1	9	Core Layer	The Core backbone ring topology shall be constructed using 96 Core unarmoured Single mode Optical Fiber Cables (OFC).G32	1) Suggest to have all OFC Cables i.e 96 F, 48 F & 12 F to be <u>armoured</u> instead of <u>unarmoured</u> as being metallic armoured it should be easy to trace the cable during maintenance and MTTR achievement . If yes, then please share the specification sheet of all three ofc cable and change the Schedule-I Table. 2)Armoured provide extra	Please refer to Addendum & Corrigendum-1.

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						protection for the optical fiber and added reliability for the network, lessening the risk of downtime and cable damage due to rodents, construction work, weight of other cables and other factors	
57	Vol- 2	4	9	Solution Architecture	Figure 1 - Conceptual Architecture Diagram for Fiber Optic Network	Core routers qty's asked in the RFP is Two number mentioned in Vol-I page 76. Contrary to that Pops location mentioned in the RFP as Four pops. Further every POP with two routers shown in diagram qty, So total requirement will become of Eight , kindly confirm the final quantities of the routers / aggregation routers.	8 PoP routes (2 nos./PoP) are considered for terminating Access links. 2 Core routers are considered for Muglisara NoC for facilitating connectivity of PoP routers (which would aggregate traffic from all access locations) towards servers/storage/Internet router. Core router for

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							CCC is not part of this RFP.
58	Vol- 2	4.1	10	Core Layer	Core router will be installed at all the POP locations, the switching backplane needs to be minimum 1.9 Tbps at every POP location.	Core routers qty asked in the RFP is Two number mentioned in Vol -I page 76. Contrary to that Pops location mentioned in the RFP as Four pops. Further every POP with two routers shown in diagram qty, So total requirement will become of Eight , kindly confirm the final quantities of the routers / aggregation routers.	8 PoP routes (2 nos./PoP) are considered for terminating Access links. 2 Core routers are considered for Muglisara NoC for facilitating connectivity of PoP routers (which would aggregate traffic from all access locations) towards servers/storage/Internet router. Core router for CCC is not part of this RFP.

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59	Vol- 2	4.1	10	Core Layer	The proposed Core layer shall consider 25 % more fiber length than surface length, 15% for looping in chambers, 5% for modulation, 1% for splice joint preparation & remaining 4% for wastage.	How do we show 25% more fiber length than the surface length — by getting it shown to the authorities before the start of work	This means that aprx. 25% more fibre cable will be used in field than surface length. Authority will provide permission / RoW for surface length & actual consumption of fibre will be recorded in blowing report.
60	Vol- 2	4.1	10	Core Layer	The Core layer shall have chamber at approx. 200 meters and shall have OFC joint splice closure at approx. 300 — 500 meters.	This is wrt to surface length or fibre length	This is w.r. to surface length. There is a BRTS bus stand at aprx. every 500 Mtr & traffic junction is there between 2 BRTS stands, so accordingly chamber & joint closure for last mile splicing will need to be planned.



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61	Vol- 2	4.1	10	Core Layer	Additional chambers to be constructed wherever there is a road crossings or at sharp turns.	An specific shaped or dimensions	It is 1M(L)*1M(W)*1.2M(D) with single/dual lids. Please refer Section - 5.13.5 of Vol - 2 of RFP. Also please refer to Addendum & Corrigendum-1.
62	Vol- 2	4.3	11	Last Mile Connectivity		How many HDPE Duct to be lay in Last Mile connectivity ? Kindly confirm. .	1 No. Please refer to Addendum & Corrigendum-1.
63	Vol- 2	4.3	11	Last Mile Connectivity		Is it mandatory to have Under ground or Aerial option is there.	Only underground is required.
64	Vol- 2	5.2	13	Scope - Laying of underground OFC	Submission of required documents, drawings and reports to SMC / SSCDL.	Clarity required on the documents to be provided/Submitted.	Please refer RFP Vol.-2, Section-5.6. In addition SI will also have to submit OFC blowing report as part of the deliverables. Please refer

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							Addendum & Corrigendum-1.
65	Vol- 2	5.2	13	Scope -Laying of underground OFC	Coordinate with SMC for RoW permissions, excavation and laying of optical fibre. SI is required to submit the plan in advance so that necessary RoW permission shall be provided by SMC	Kindly confirm , Who will bear the cost of ROW Demand Note cost route falling under SMC area.	Please refer to Addendum & Corrigendum-1 for revised Business model and clarity on RoW/ restoration charges
66	Vol- 2	5.2	13	Scope -Laying of underground OFC	Coordinate with SMC for RoW permissions, excavation and laying of optical fibre. SI is required to submit the plan in advance so that necessary RoW permission shall be provided by SMC	Kindly confirm, Who will bear the cost of ROW Demand Note cost for route falling under Authorities other than SMC Area (Viz. NHAI, PWD, State Highway, Railway, Gas etc)	Please refer to Addendum & Corrigendum-1 for revised Business model and clarity on RoW/ restoration charges

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67	Vol- 2	5.3	13	Scope - Creation of PoP	As a part of project implementation, 4 Point of Presence (PoP) shall be created in the city in existing IT rooms of Muglisara Head Quarter, North Zone office, South East Zonal office of SMC and CCC. Muglisara office and Command and Control Centre (CCC) will serve as a PoP collocated with NoC / DC / DR. Temporary PoP will be created in IT room of South West Zone till the time CCC will become operational and it will be migrated to CCC in future	Muglisara NOC & Temporary POP (IT Room ) South West Zone is the same location of Muglisara? Kindly confirm .	Muglisara NoC and South West Zone are two different locations. Please refer KMZ file.

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68	Vol- 2	5.3	13	Scope - Creation of PoP	As a part of project implementation, 4 Point of Presence (PoP) shall be created in the city in existing IT rooms of Muglisara Head Quarter, North Zone office, South East Zonal office of SMC and CCC. Muglisara office and Command and Control Centre (CCC) will serve as a PoP collocated with NoC / DC / DR. Temporary PoP will be created in IT room of South West Zone till the time CCC will become operational and it will be migrated to CCC in future	A) Kindly share the Time line of CCC readiness./Operational . B) Is costing considered of Migration from Temporary POP To Permanent CCC pop in RFP. C) 100% Downtime Window will be required for migration.	A) Aprx. 1 year. B) SI has to estimate the migration cost and bid accordingly. C) Downtime will be provided, but SI has to arrange all required resources (splicing teams, manpower, material, equipments etc.) to shorten downtime as far as possible. Services should remain up for majority of the access links between other PoPs.

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69	Vol- 2	5.3	13	Scope - Creation of PoP	As a part of project implementation, 4 Point of Presence (PoP) shall be created in the city in existing IT rooms of Muglisara Head Quarter, North Zone office, South East Zonal office of SMC and CCC. Muglisara office and Command and Control Centre (CCC) will serve as a PoP collocated with NoC / DC / DR. Temporary PoP will be created in IT room of South West Zone till the time CCC will become operational and it will be migrated to CCC in future	Kindly share the details /Lat-long of CCC POP .	Please refer to the location file uploaded separately.
70	Vol- 2	5.3	13	Scope - Creation of PoP	Submission of required documents, drawings and reports to SMC / SSCDL	Clarity required on the documents to be provided/Submitted.	Already provided in section - 5.6 of this RFP. SI will also need to submit OFC blowing

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							report in addition to details mentioned in section - 5.6.
71	Vol- 2	5.3	13	Scope - Creation of PoP	SMC / SSCDL will provide space to install 1 no. 42U rack and cooling at above mentioned 2 PoPs	Any charges to be paid for the same	No charges will be levied to SI
72	Vol- 2	5.8	18	Scope - Provision of Internet Services	The bandwidth provision is not in the scope of SI. The bandwidth will be procured from the separate vendor through leased line / MPLS / Dark Fibre project. However, the SI is required to ensure the distribution of internet bandwidth to locations covered under this RFP as well as leased line / MPLS / Dark Fibre connected locations by configuration and monitoring	Means Internet bandwidth is going to be procured and arranged by SMC/SSCDL . Kindly confirm.	Yes, Internet bandwidth is going to be procured and arranged by SMC/SSCDL by separate tender for leased line / MPLS / Dark Fibre project.

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
					of the devices supplied as part of this RFP at the central locations (Muglisara NoC and CCC).		
73	Vol- 2	5.10	20	Scope -Monetisation of Network	Monetization of network	Revenue Sharing/Duct Leasing charges should not be part of the bid.	RFP terms prevail.
74	Vol- 2	5.11	21	Other General Instructions	Based on the Route diagram submission, ROW permissions needs to be taken from the SMC authorities	SI has to take RoW permission, please confirm	Please refer to Addendum & Corrigendum-1 for revised Business model and clarity on RoW/ restoration charges
75	Vol- 2	5.11	21	Scope -Other General requirements	OFC drums will be tested with OTDR	Do we need to submit the sample test done, any specific format.	Selected bidder will have to provide the same and will be approved by SMC.
76	Vol- 2	5.11	21	Scope -Other General requirements	SMC / SSCDL will provide space to install 1 no. 42U rack	Do we need to submit the sample test done, any specific format.	Query not clear.

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					and cooling at above mentioned 2 PoPs		
77	Vol- 2	5.11	21	Scope -Other General requirements	Drawings of Each Rack installed on BRTS stations, SMC offices etc.	Kindly Provide the Format for same.	Selected bidder has to provide the same as approved by SMC.
78	Vol- 2	5.13	25	Scope -OFC Execution Methodology	9. To reduce the digging work SI will use existing duct / pipe already laid by BRTS authority wherever applicable and feasible.	1) Kindly confirm, Row is applicable for using exist duct/pipe if any ? 2) Kindly confirm , Who will bear the cost of ROW Demand Note for the said existing duct /pipe if any ?	Please refer to Addendum & Corrigendum-1 for revised Business model and clarity on RoW/ restoration charges
79	Vol- 2	5.13.2	28	Scope -Laying of 40mm HDPE Pipe	5.13.2. Laying of 40mm HDPE Pipes using Horizontal Directional Drilling (HDD)	Suggest to include Ground-Penetrating Radar (GPR) survey in Schedule-I List , As Surat city is having high utility of Gas pipe line and other under ground utilities presence .	RFP terms & Conditions prevail



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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
80	Vol- 2	5.13	32	Scope -OFC execution Methodology	The SI shall inform all concerned authorities and obtain NOC or permissions as required before starting the excavation and Hand Hole construction works.	We request authority to provide single window for clearances/RoW. Bidder may not interact directly with other state departments.	RFP terms & Conditions prevails. Permissions to be sought by the bidder, if required SMC/SSCDL will facilitate.
81	Vol- 2	5.13.7	32	Scope -OFC Testing Methodology	The Test should be carried out by Certified Engineer and once the report is submitted to the manufacturer he will issue the Warranty Certification which will mention minimum performance warranty of 20 years or higher	Request ing to change, Warranty Certificate for minimum performance of cable from 20 years to 15 years	RFP terms & Conditions prevail
82	Vol- 2	5.17	35	Scope -Others	5.17. Other-- SI to ensure that for operation and maintenance team has the uniform with the identity card, safety shoes, helmet, Neon Jackets etc.	O&M team will also consist of memebers who will not work in trench like patrollers , splicers etc , is requirement for safety shoes , helmet and	The selected bidder will be required to follow the safety standards. Please refer to Addendum & Corrigendum-1.

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
						neon jackets mandatory for all the members ?	
83	Vol- 2	6.4.2	39	O&M	6.4.2.-Vehicles (four-wheeler) for routine patrolling and mobilization of resources.	Can SI use two wheeler instead of 4 Wheeler for the same, as patrolling is done effectively by 2 wheelers , which FRT team having Tools can have 4 wheeler	Please refer to Addendum & Corrigendum-1.
84	Vol- 2	6.4.2	39	O&M	6.4.2. Provision of the Field Operational Manpower and Resources	Fiber maintenance scope needs to be defined( if any ) in RFP , this will include breakdown maintenance like Fiber cuts due to work by external agencies , authorities and Operators . Further required responsibility ownership matrix by SI and SSCDL in these types of Cuts	SI will be responsible for restoring cuts, material supply and process flow for fault intimation. SMC / SSCDL will support for RoW wherever required for faster restoration.

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
						,like ROW arrangement ,temporary diversion of routes for faster restoration , material supply and process flow for fault intimation .	
85	Vol- 2	7.2	42	Annexure I- Core/Internet Router	Cosnidering these are backbone routers running mission critical city applications,we stronly recommend following technical specifications to be included as part of requirement	These are backbone routers and for a good network Shall support MPLS Provider /Provider Edge functionality. MPLS VPN, MPLS mVPN (Multicast VPN), Carrier Supporting Carrier (CsC), DiffServ Tunnel Modes, MPLS TE (Fast re-route), DiffServ-Aware TE, Inter-AS VPN, Resource Reservation Protocol (RSVP) and VPLS.	Specifications remain unchanged.
86	Vol- 2	7.2	42	Annexure I- Core/Internet Router	Redundancy in terms of Power supply(s). Power supply should be able to support fully loaded chassis	Besides power supply, We recommend that core router/internet router should have controller card level	SI is free to design logical network for better uptime and SLA compliance.

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
						redundancy to avoid single point of failure	
87	Vol- 2	7.3	43	Annexure I- PoP Switch	Point 4: ZX /LH transceiver module for Single Fiber for supporting A maximum distance of 100Kms	100Kms SFP is always expensive than 40KM SFP. As per present RFP architecture the access ring should not be more than 20KM and total fibre laid is areound 148KM with 4 POPS location. We recommend to alter this 100KM requirement to support up to 60 KM. Which is sufficient to cater the Surat RFP requirement.	Please refer Addendum & Corrigendum-1.

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88	Vol- 2	7.3	43	Annexure I- PoP Switch	Point 5:Support for minimum 400 k MAC addresses	The POP switch is used for traffic aggregation mainly, If we add all the data centre servers and even terminate 1 or 2 access rings on the switches still the requirement is not higher than 60 to 70 K MAC addresses. For deployment of cost effective switches offering for smart city network we suggest to have 100-120K MAC addresses sufficient for the solution. So we request you to change the requirement from higher side of 400K MAC address to more optimise and practical requirement of 100-120K MAC range.	1) Please refer Addendum & Corrigendum-1.

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
89	Vol- 2	7.6	61	Annexure I- FDP	Fiber Distribution Panel (FDP) 4.Capacity-24 Fibers 5.Type of Connector SC/LC/APC (As per field requirement)	1) Kindly share the specification sheet of 96 F FDP 2) Kindly share the specification sheet of 12 F FDP.	1) Please refer Addendum & Corrigendum-1. 2) 12F FDP is not considered in design.
90	Vol- 2	7.6	61	Annexure I- FDP	Fiber Distribution Panel (FDP) 4.Capacity-24 Fibers 5.Type of Connector SC/LC/APC (As per field requirement)	1) Kindly mentioned where to install 96 F Port FDP . 2) Kindly mentioned where to install 48 F Port FDP. 3) Kindly confirm where to install 24 F Port FDP . 4) Kindly confirm where to install 12 F Port FDP.	96F FDP will be installed at all PoP locations for full cable termination of 96F Core OFC. 24F FDP will be installed at all Access locations for termination of last mile cables. Please refer Addendum & Corrigendum-1.

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
91	Vol- 2	7.9	63	Annexure I- OFC	Optical Fiber Cables (OFC) : Outer Jacket Thickness : ≥0.65mm	Inner jacket is sufficient for the unarmoured cable specification's Mechanical / Optical / Environmental requirements. While outer jacket of 0.65 mm thickness is additional & not required as per cable construction & application point of view. So we can go ahead without outer jacket (of 0.65 mm minimum thickness) & reduced cable diameter which will help in blowing performance- please confirm.	Please refer Addendum & Corrigendum-1.
92	Vol- 2	7.9	63	Annexure I- OFC	7.9. Optical Fiber Cables (OFC) -Maximum Cabled Fiber Attenuation dB/Km 1310nm:0.34 and 1550nm:0.20	Need clarification that this attenuation is only for fiber alone and with no splice points taken , in O&M period is there any criteria of per km attenuation with splice taken	Please refer Addendum & Corrigendum-1.

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						in to account . Any replacement of patch required if this criteria is not met.	
93	Vol- 2	7.9	65	Annexure I- OFC	Name of Client with logo	What shall be name of the client with logo? please confirm.	Will be shared with the successful bidder.
94	Vol- 2	7.10	65	Annexure I- 96 Core OFC	96 Core OFC — Core Layer : Diameter of Cable : 15mm ± 5%	As per cable construction, installation & specification requirement will be complied with the cable of diameter of 12.0mm+/-5% without outer jacket of 0.65 mm. So can we go ahead with 12.0mm+/-5% ? Please confirm.	Outer jacket is required. Diameter may not be an issue if all installation & mechanical and optical specifications are complied with. Please refer Addendum & Corrigendum-1.
95	Vol- 2	7.11	66	Annexure I- 48 Core OFC	48 Core OFC — Access Layer : Diameter of Cable : 13mm ± 5%	As per cable construction, installation & specification requirement will be complied with the cable of diameter of 10.0mm+/-5% without outer	Outer jacket is required. Diameter may not be an issue if all installation & mechanical and optical specifications are



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						jacket of 0.65 mm. So can we go ahead with 10.0mm+/-5% ? Please confirm.	complied with. Please refer Addendum & Corrigendum-1.
96	Vol- 2	7.12	66	Annexure I- 12 Core OFC	12 Core OFC — Last Mile : Diameter of Cable : 12mm ± 5%	As per cable construction, installation & specification requirement will be complied with the cable of diameter of 10.0mm+/-5% without outer jacket of 0.65 mm. So can we go ahead with 10.0mm+/-5% ? Please confirm.	Outer jacket is required. Diameter may not be an issue if all installation & mechanical and optical specifications are complied with. Please refer Addendum & Corrigendum-1.
97	Vol- 2	7.16	69	Annexure I- Fiber Splice Joint Closure	7.16. Fiber Splice Joint Closure The fiber splice joint closure shall have reusable gel end piece that opens and closes easily for adding or removing efficient cable sealing with specific grommets.	Suggest to have mechanical cable sealing type, which provide efficient cable sealing and effective reusable feature as compare to gel sealing.	Please refer Addendum & Corrigendum-1.

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
98	Vol- 2	7.16	69	Annexure I- Fiber Splice Joint Closure	7.16. Fiber Splice Joint Closure The fiber splice joint closure shall have reusable gel end piece that opens and closes easily for adding or removing efficient cable sealing with specific grommets.	Data sheet given in this RFP is of 144 F Capacity , So all Fiber Splicing Joint Closure required in this project is of 144 F Fiber Capacity only ? Kindly confirm.	144F capacity joint closure need to be installed for 96F Core route and 96F capacity joint closure need to be installed for 48F Access route. Please refer Addendum & Corrigendum-1.
99	Vol- 2	7.22	73	Annexure I- Route Marker	Cable route and joint indicators are to be provided to indicate the cable route and location joints. The route indicators are to be placed at every 100 mts. and at every place where the cable changes direction. Joint indicators are to be provided at all joints. For the sake of uniformity and from viewpoint of identification of	Route Marker is applicable in Last Mile Route also? Kindly confirm.	Last mile will be mostly road crossings to connect BRTS bus stand and traffic junction, so route marker will not be applicable.

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					cable at later date for maintenance, the route / joint indicators shall be provided in the alignment of the trench.		
100	Vol- 2	9	84	Annexure III	BRTS Stations — The edge level routers are already available at each BRTS stations. SI is responsible to terminate the OFC on these routers. Thus, no additional devices are considered. The make and model for this router is Techroutes : TSR-2800-20.	1) These BRTS Stations are part of 161 BRTS lat-longs shared under documents_ list of SMC Offices along with RFP? If No , Then Pls confirm space of 1 U is available or not at Edge routers rack to terminate OFC .2) How many port FDP to be considered for the same ? Please confirm.	Presently no rack is installed at BRTS bus stand for Techroute router. 9U rack is considered for all BRTS bus stands. 24F FDP is considered for all access locations.
101	Vol- 2	9	84	Annexure III	Traffic Junctions- As part of ITCS Project, a junction box with industrial switch will be installed. SI is required to terminate the OFC on this switch that will be available in the junction box. The RFP is	1) Attached 164 Existing Traffic Signal is part of this ITCS Project .Please confirm . 2) FDP is going to be arranged by ITCS Project Vendor? Pls confirm.	1) Yes. 2) No, FDP will not be arranged by ITCS vendor, it is in OFC vendor scope.

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					already floated and the specifications are already mentioned in Annexure V. The make & model will be provided to SI once the vendor is selected		
102	Vol- 2	9	84	Annexure III	Traffic Junctions- As part of ITCS Project, a junction box with industrial switch will be installed. SI is required to terminate the OFC on this switch that will be available in the junction box. The RFP is already floated and the specifications are already mentioned in Annexure V. The make & model will be provided to SI once the vendor is selected	Under this ITCS Project , Inside Junction Box , How many port of FDP & how many U space has been considered for fiber termination?	24F FDP and minimum 1U space is considered for fibre termination.

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
103	Vol- 2	9	84	Annexure III	Traffic Junctions- As part of ITCS Project, a junction box with industrial switch will be installed. SI is required to terminate the OFC on this switch that will be available in the junction box. The RFP is already floated and the specifications are already mentioned in Annexure V. The make & model will be provided to SI once the vendor is selected	SI to terminate only OFC cable inside these Junction Boxes ? Kindly confirm.	SI has to terminate OFC cable inside junction box and install patch cord between FDP and switch port.
104	Vol- 2	9	84	Annexure III	Traffic Junctions- As part of ITCS Project, a junction box with industrial switch will be installed. SI is required to terminate the OFC on this switch that will be available in the junction box. The RFP is already floated and the	At these Traffic Junctions, Inside Junction Box , OFC will be terminated in ring or linear ? Kindly confirm.	In ring fashion.

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
					specifications are already mentioned in Annexure V. The make & model will be provided to SI once the vendor is selected		
105	Vol-2	7.3	43	Annexure I- PoP Switch	<p>Point 6:                      Minimum 2000 IP multicast streams and 500 active PIM interfaces.                      Minimum 500k IP forwarding table entries.                      OSPF Instances: up to 50                      OSPF Adjacencies: up to 200                      OSPF Routes: up to 64k                      RIP Instances: up to 64                      RIP Routes: up to 05k                      BGP Peers: up to 50                      BGP Routes: up to 128k                      VRF instances : up to 512                      PIM Active Interfaces: up to 512</p>	<p>We suggest to have these scalability figures based on the solution requirement , OEMs will have different scalability figures based on the solution they propose for this L2/L3 network or overlay services architecture.</p> <p>Criteria should be based on the offered product and solution which provide sufficient scalability and feature set based on the solution requirement considering best and cost</p>	Specifications remain unchanged.

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						optimise architecture. We recommend to remove these specification and mention as per the solution requirement	
106	Vol-2	7.5	57	Annexure I- Indoor Access Switch	Point 1: 0°C to 50°C	0-50 temp range is vendor specific temp range, For Indoor switches we request you to change the temprature range to 0-45 deg cel.	Please refer Addendum & Corrigendum-1.
107	Vol-2	7.5	60	Annexure I- Indoor Access Switch	Point 7: The switch must support Location Based Awareness and Mobility thereby, allowing a better Network Visibility and Control as well as Asset Tracking Functionality	This is wireless feature and normally part of AP ( Access point) switches do not have such technology integrated , this seems to be vendor specific implementation so we suggest to remove this from the switch specifications. This should be added in the wireless or WiFi network specifications.	Please refer Addendum & Corrigendum-1.

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#	RFP Volume	RFP Section	RFP Page No.	Category	Content in the RFP Requiring Clarification	Clarification Sought	Clarification
108	Vol-2	9	83	Annexure III	All servers, active networking components (Except Industrial Switches), security equipment and storage systems proposed should be from OEMs who are amongst the top 5 for world-wide market share in terms of revenue as per IDC latest published quarterly report presented in the latest Magic Quadrant of Gartner	<p>It seems the two analyst references have got mixed in this clause. As per our observation, no IDC report gets published in Magic quadrant of Gartner.</p> <p>We request you to modify this clause and remove Gartner reference as the only consideration for qualification criteria. For quality and wider participation with cost effective solution proposal, we request you to also consider international and reputed analyst reports also like IDC, Dell OroGroup, Ovum or ACG research wherein OEM should be in Top 5 Routing vendors rankings globally.</p>	Please refer to Addendum & Corrigendum-1.



## Response to Pre-Bid Queries for Active Components queries

RFP for Creation of OFC Network for BRTS Corridor and other important SMC Locations Connected Surat Project

Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
1	5.5.2	15	Enterprise Management System (EMS)	To ensure that IT systems are delivered at the performance level envisaged, it is important that an effective monitoring and management system be put in place. It is thus proposed that a proven Enterprise Management System (EMS) is to be proposed by the bidder for efficient management of the system, reporting, SLA monitoring and resolution of issues	While the EMS highlights the functional attributes, it is very important that the technical attributes of the solutions be scoped so that the system is Robus, maintainable and scalable in the long run	<ul style="list-style-type: none"> <li>• The Solution shall provide future scalability of the whole system without major architectural changes.</li> <li>• Solution shall be open, distributed, scalable, and multi-platform and open to third party integration</li> <li>• All the proposed EMS solution should be from a single vendor</li> <li>• The Configuration Management Data Base (CMDB) should further have out of the box integrations with all the other proposed components.</li> </ul>	Please refer to Addendum and Corrigendum - 1 for the revised specifications.

## Response to Pre-Bid Queries for Active Components queries

RFP for Creation of OFC Network for BRTS Corridor and other important SMC Locations Connected Surat Project

Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
2	5.5.2.1	15	Network Monitoring System	Solution should provide fault & performance management of the server side infrastructure and should monitor IP\SNMP enabled devices like Routers, Switches, computers etc. Proposed Network Management shall also help monitor key KPI metrics like availability, in order to measure SLA's. Following are key functionalities that are required which will assist administrators to monitor network faults & performance degradations in order to reduce downtimes, increase availability and take proactive actions to remediate & restore network services:	Is it expected for NMS to monitor traffic related data for networks?		RFP terms and conditions prevail.

## Response to Pre-Bid Queries for Active Components queries

RFP for Creation of OFC Network for BRTS Corridor and other important SMC Locations Connected Surat Project

Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
3	5.5.2.1	15	Network Monitoring System	Solution should provide fault & performance management of the server side infrastructure and should monitor IP\SNMP enabled devices like Routers, Switches, computers etc. Proposed Network Management shall also help monitor key KPI metrics like availability, in order to measure SLA's. Following are key functionalities that are required which will assist administrators to monitor network faults & performance degradations in order to reduce downtimes, increase availability and take proactive actions to remediate & restore network services:	Will the network me mulitcast enabled. Is it expected for NMS to monitor multicast protocols?		RFP terms and conditions prevail.

## Response to Pre-Bid Queries for Active Components queries

RFP for Creation of OFC Network for BRTS Corridor and other important SMC Locations Connected Surat Project

Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
4	5.5.2.1	15	Network Monitoring System	The proposed solution must automatically discover manageable elements connected to the infrastructure and map the connectivity between them. Solution should provide centralized monitoring console displaying network topology map.	Discovery should be continuous and should consume low overhead	The solution should allow for Spiral discovery to be run on a continuous basis which tracks dynamic changes near real-time; in order to keep the topology always up to date. This discovery should run at a low overhead, incrementally discovering devices and interfaces.	RFP terms and conditions prevail.
5	5.5.2.1	15	Network Monitoring System	The system must use advanced root-cause analysis techniques and policy-based condition correlation technology for comprehensive analysis of infrastructure faults.	Correlation capabilities are expected at network level only or across IT components like Network, server and Application?		RFP terms and conditions prevail.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
6	5.5.2.2	16	5.5.2.2. Server Performance Monitoring System	The proposed tool should integrate with network performance management system and support operating system monitoring for various platforms supplied as part of this Project.	Ideally the solution should have manager of manager functionality for end to end integration	Single integrated dash board to provide line of business views and drill down capabilities to navigate technical operators right from services to last infrastructure components Application shall be the manager of managers and capable of receiving events/alerts from multiple monitoring systems including system, network, storage, hardware, and application. System should be the single pane of glass for enterprise monitoring	RFP terms and conditions prevail.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
7	5.5.2.2	16	5.5.2.2. Server Performance Monitoring System	The proposed tool should integrate with network performance management system and support operating system monitoring for various platforms supplied as part of this Project.	While integration is important, the integration should also provide correlation features. IT Topology is one of the critical component for correlation. The solution should leverage topology data for Event Correlation and false alarm suppression?	This will have the following advantages: a) Reduce MTTR through advanced correlation thereby reducing the no. of events that require attention b) Allows identification of the correct team c) Helps in faster Root Cause Analysis	RFP terms and conditions prevail.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
8	5.5.2.2	16	5.5.2.2. Server Performance Monitoring System	The proposed tool must provide information about availability and performance for target server nodes.	Performance monitoring should not be restricted to systems but should also be extended to monitoring of End User Management for:	a) The solution must be able to scale to reflect performance and availability from many geographical locations where business services are accessed without a significant increase in solution b) Proactive monitoring of all end user transactions; detecting failed transactions; gathering evidence necessary for problem diagnose. c) Should drill down from slow, end-user transactions to the bottlenecked component, method or SQL statement, helping to solve memory, exception and other common problems	RFP terms and conditions prevail.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
9	5.5.2.3	16	Centralized Helpdesk System	None	Request department to consider following functionality of Helpdesk Solution should allow for a Smart Ticket feature to quickly submit a Service Desk ticket by just entering a description or attaching a screenshot. Solution should intelligently populate other fields such as category or affected services by extracting and analyzing the content that you entered in the ticket	Helpdesk should provide modern data analysis methods for insight and value to service desk by leveraging unstructured as well as structured data Values and benefits <ul style="list-style-type: none"> <li>• Simple incident and service request submittal</li> <li>• Fast classification</li> <li>• Instant visualization of problem areas</li> <li>• Quick time-to-value</li> </ul>	RFP terms and conditions prevail.



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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
10	5.5.2.3	16	Centralized Helpdesk System	None	Request department to consider following functionality of Helpdesk Helpdesk should provide a Hot Topic Analytics feature and should intelligently display an interactive diagram indicating the hot topics among recent incidents so that users can easily discover incident trends and their relative impacts, and identify problem candidates.	Helpdesk should provide modern data analysis methods for insight and value to service desk by leveraging unstructured as well as structured data Values and benefits <ul style="list-style-type: none"> <li>• Simple incident and service request submittal</li> <li>• Fast classification</li> <li>• Instant visualization of problem areas</li> <li>• Quick time-to-value</li> </ul>	RFP terms and conditions prevail.
11	5.5.2.3	16	Centralized Helpdesk System	None	The Proposed solution should discover and keep an inventory of desktop, laptops, servers, network and any IP enabled device. To ensure that all IT Environment is covered. The IT asset Register should be		RFP terms and conditions prevail.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
					comprehensive/There are important softwares installed on servers as well INventory solution should cover server environment as well for hardware as as well as software inventory		
12	7.1	40	Core Switch for NOC locations - Ports	(as per requirements) 10/100/1000 Base-TX/FX ports and extra 2 or 4 nos of 10G Base SX/LX/LR ports as per network solution offered.	Please remove the FX and make it 1000 Base-TX Ethernet ports/ SFP port	As per the latest industry standard, 1000 base TX should be considered. FX is 100 Mbps fiber port and the same is not required in Core Switch.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
13	7.1	40	Core Switch for NOC locations - Ports	TX/FX Split as per field/site requirement	Change it to SFP/TX port	As per the latest industry standard, 1000 base TX should be considered. FX is 100 Mbps fiber port and the same is not required in Core Switch.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
14	7.1	40	Core Switch for NOC locations - Ports	All ports can auto-negotiate between 10Mbps/ 100Mbps/ 1000Mbps, half-duplex or full duplex and flow control for half-duplex ports	Please change it to 1G port because the fiber ports are not auto-negotiated and it would be have fixed speed of 1000 Mbps.	Auto-negotiation on Fiber ports is not possible and not achievable.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
15	7.1	40	Core Switch for NOC locations	NA, Addition	Core switch must have internal redundant power system. Please add this point		Please refer to Addendum and Corrigendum - 1 for the revised specifications.
16	7.1	40	Core Switch for NOC locations	NA, Addition	HA / Stacking fabric of Core Switch must have high throughput. So please add " Must support High speed HA/stacking capacity of 160 Gbps or more"		RFP terms and conditions prevail.
17	7.1	41	Core Switch for NOC locations - VLAN	Support 802.1Q Tagged VLAN and port based VLANs and Private VLAN	Please change the private VALN or equivalent	Private VLAN is specific to single OEM. Should be changed to Private VLAN or equivalent.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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18	7.1	41	Core Switch for NOC locations - VLAN	Should have accessibility using Telnet, SSH, Console access, easier software upgrade through network using TFTP etc. Configuration management through CLI, GUI based software utility and using web interface	Please change to Configuration management through CLI/GUI based software utility and using web interface	Please make it CLI/GUI since for Core Switches CLI based configuration is most commonly and widely used.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
19	7.2	41	Core Router / Internet Router	NA, Addition	A Core Router must have capacity to handle higher number of IPv4 and IPv6 prefixes So please add " Must support 1M IPV4 and 1M Ipv6 prefixes"		RFP terms and conditions prevail.
20	7.2	41	Core Router / Internet Router	NA, Addition	A Core Router must have capacity to for higher number of Ipsec and GRE tunnels so please add " Must support 4k or more Ipsec / GRE tunnels"		RFP terms and conditions prevail.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
21	7.2	42	Core Router / Internet Router - Protocol Support	Must have support for TCP/IP, PPP, X.25, Frame relay and HDLC	Please remove the X.25 protocol. This is the older protocols and which will not be in used in current requiremet and it is obsolete protocol	Please remove the X.25 protocol. This is the older protocols and which will not be in used in current requiremet and it is obsolete protocol	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
22	7.2	42	Core Router / Internet Router - Security features	URL based Filtering	Please remove the URL based Filtering, this is firewall feature and is not required in the core router	Please remove the URL based Filtering, this is firewall feature and is not required in the core router	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
23	7.3	43	POP Switch -General Requirement	Switch hardware should be ready to support 40 & 100GE I/O modules. By upgrading the S/w and necessary Switch Fabric the switching capacity should be incremented to support 40 & 100G modules in a non blocking architecture mode. No chassis would be changed at that point of time. The Same Supervisory Modules; Power supply etc would be used. OEM/SI to give specific compliance for the same	Please change to 40GE /100GE I/O modules	These specifications are specific to single OEM. Please change this to 40/100G ports. As per the present specs shared by SMC only 10G ports are required at the switch level and there is no requirement for even 40G at present. SMC can add scalability to 40G ports in future if required. 100G requirement is not justified.	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.
24	7.3	44	POP Switch - General Requirement	Two switches when working as a switch cluster as mentioned above should use their own control and data plane. No sharing of control or data plane should happen.	Please change it to unified control plane and single data plane.	This is specific to single OEM. Kindly change as requested as per the latest switching virtualization technology requirements.	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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25	7.3	45	POP Switch - Redundancy	All components (including elements such as I/O cards, CPUs, power supplies and fans) must be hot swappable with zero disruption to traffic forwarding (Unicast or multicast).	Please change to power supplies/fans	Switch is having redundancy at switch fabric, management module and power supply with N+1 redundancy. Each power supply does have the inbuilt fan.	RFP terms and conditions prevail.
26	7.3	45	PoP Switch-Port density	SX transceiver module for Multimode Fiber for supporting a maximum distance of 550 mtrs	Sx module supports max 300 meters. 550 meters is specific to an OEM. Please amend this point.		Please refer to Addendum and Corrigendum - 1 for the revised specifications.
27	7.3	46	POP Switch - Port density	SR transceiver module for Multimode Fiber for supporting a maximum distance of 550 mtrs on OM3 and OM4	Please change to maximum distance of 300 mtrs on OM3 and OM4	Please change to 300 Mts as per OM3 and OM4 standards.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
28	7.3	46	POP Switch - Port density	SR4 transceiver module for Multimode Fiber for supporting a maximum distance of 550 mtrs on OM3 and OM4	Please change to maximum distance of 100 mtrs on OM3 and OM4	Please change to 100 Mts as per OM3 and OM4 standards.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
29	7.3	46	POP Switch - Layer 2 Feature	Support for minimum 400 K MAC addresses	Please change to minimum 32K MAC address	This is specific to single OEM. Kindly change as requested as 32K MAC address are more than sufficient for project requirement	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
30	7.3	46	PoP Switch-Port density	ZX /LH transceiver module for Single Fiber for supporting A maximum distance of 100Kms	Zx optic supports distance of 70Km. 100km is specific to an OEM. Please amend this point.		Please refer to Addendum and Corrigendum - 1 for the revised specifications.
31	7.3	47	POP Switch - Layer 2 Feature	"Port Mirroring" functionality for measurements using a network analyzer for up to 32 ports.	standard for port mirroring is upto 16 ports. 32 ports is vendor specific. Kindly amend this point	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
32	7.3	47	POP Switch - Layer 2 Feature	Should support Ethernet (IEEE 802.3, 10BASE-T)		Fast ethernet ports are not required as the access and core layer is on 1G/10G.	RFP terms and conditions prevail.
33	7.3	47	POP Switch - Layer 2 Feature	Should support Fast Ethernet (IEEE 802.3u, 100BASE-TX)	Please remove this point	Fast ethernet ports are not required as the access and core layer is on 1G/10G.	RFP terms and conditions prevail.



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34	7.3	47	POP Switch - Layer 3 Feature	Virtual Router Redundancy Protocol (VRRP) as per RFC 3768 or equivalent.	Please change to per RFC 2338 or equivalent.	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
35	7.3	47	POP Switch - Layer 3 Feature	Minimum 2000 IP multicast streams and 500 active PIM interfaces.	Please remove and 500 active PIM interfaces.	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
36	7.3	48	POP Switch - Layer 3 Feature	Minimum 500k IP forwarding table entries.	Please change it to Minimum 120k IP forwarding table entries.	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
37	7.3	48	POP Switch - Layer 3 Feature	OSPF Instances: up to 50	Please remove this point	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
38	7.3	48	POP Switch - Layer 3 Feature	OSPF Adjacencies: up to 200	Please remove this point	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	This clause stands deleted. Please refer to Addendum and

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							Corrigendum - 1 for the revised specifications.
39	7.3	48	POP Switch - Layer 3 Feature	OSPF Routes: up to 64k	Please remove this point	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.
40	7.3	48	POP Switch - Layer 3 Feature	RIP Instances: up to 64	Please remove this point	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.
41	7.3	48	POP Switch - Layer 3 Feature	RIP Routes: up to 05k	Please remove this point	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
42	7.3	48	POP Switch - Layer 3 Feature	BGP Peers: up to 50	Please remove this point	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.
43	7.3	48	POP Switch - Layer 3 Feature	BGP Routes: up to 128k	Please remove this point	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.
44	7.3	48	POP Switch - Layer 3 Feature	VRF instances : up to 512	Please remove this point	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.
45	7.3	48	POP Switch - Layer 3 Feature	PIM Active Interfaces: up to 512	Please remove this point	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
46	7.3	48	POP Switch - Layer 3 Feature	Should support policy based routing with Flow-based Polices: up to 06k	Please remove with Flow-based Polices: up to 06k	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
47	7.3	48	POP Switch - Layer 3 Feature	Should support policy based routing with Flow-based Polices: up to 06k	PBR flows supported is 4k. 6k is vendor specific hence request you to amend this point.		Please refer to Addendum and Corrigendum - 1 for the revised specifications.
48	7.3	50	POP Switch - Security Features	Must support AAA using RADIUS (RFC 2138 & 2139) and/or TACACS+, enabling centralized control of the device and the ability to restrict unauthorized users from altering the configuration	please change to RFC 2139/2866	RFC 2839 is old RFC and RFC 2866 is the latest one.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
49	7.3	51	POP Switch - Management Features	Configuration of more than one NTP server.	Please remove this point	In any set up , one NTP server is required. There is no need for more than one NTP server	Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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50	7.3	51	POP Switch - Management Features	Speciation of a local time zone.	Please remove this point	Please elaborate on this point. This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
51	7.3	51	POP Switch - Management Features	Configuring automatic time offset adjustment for daylight savings time.	Please remove this point	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
52	7.3	52	POP Switch - Management Features	Detailed IGP/EGP (OSPF/IS-IS/BGP) for troubleshooting purposes	Please clarify more on level of troubleshooting required	Please clarify more on level of troubleshooting required	RFP terms and conditions prevail.
53	7.3	52	POP Switch - Management Features	Detailed Multicast debugging (e.g. IGMP/ PIM) for troubleshooting purposes	Please clarify more on level of debugging required	Please clarify more on level of debugging required	RFP terms and conditions prevail.
54	7.3	52	POP Switch - Management Features	QoS debugging for troubleshooting purposes"	Please clarify more on level of debugging/ troubleshooting required	Please clarify more on level of debugging/ troubleshooting required	RFP terms and conditions prevail.
55	7.3	52	POP Switch - Management Features	Debugging must not have a impact on performance or data			RFP terms and conditions prevail.

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				forwarding capabilities of the device			
56	7.3	52	POP Switch - Management Features	It should be guaranteed that the network switch will not enter its end of life cycle for a minimum of five years	Please remove this point	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
57	7.3	52	POP Switch - Management Features	The network switch should have a 5-10 year roadmap available covering the future of the equipment (this information should be attached)	Roadmap Cannot provide future of the switch for next 5-10 years. The advertised roadmap of any OEM is an internal policy and is not disclosed in public due to competitive nature of industry. Also the roadmap of product portfolio is subject to change without notice or obligation to any party. Since most of these OEM are overseas entity the clause will	Most of the leading OEM has 5-7 years of Roadmap. No one can give 10 year roadmap as technology advancements are happening very frequently during current days	Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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					not benefit customers in India. It is advised to mention the number of years for which warranty and technical support is desirable by the customer as part of the BOQ. So request you to remove this clause and add warranty as per project requirement.		
58	7.3	52	POP Switch - Standards	IEEE 802.3x full duplex on 10BASE-T and 100BASE-TX ports	Please remove this point	Fast ethernet ports are not required as the access and core layer is on 1G/10G.	RFP terms and conditions prevail.
59	7.3	52	POP Switch - Standards	IEEE 802.3x be on 10 BaseTx / 100 Base Tx / 1000 Base Tx	Please remove this point	Fast ethernet ports are not required as the access and core layer is on 1G/10G.	RFP terms and conditions prevail.
60	7.3	52	POP Switch - Standards	10G Base-SR, 10G Base LR, 10G Base CX	Please remove 10G Base CX	For Fiber Ring network, mostly 10G SR/ LR SFP+ interface are getting used only	Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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61	7.3	52	POP Switch - Standards	IEEE 802.3u 10 BaseT / 100 Base Tx /1000 Base Tx	Please remove this point	Fast ethernet ports are not required as the access and core layer is on 1G/10G.	RFP terms and conditions prevail.
62	7.3	53	POP Switch - Standards	40G Base-SR, 40G Base LR, 40G Base CX	Please remove 40G Base CX	For Fiber Ring network, mostly 40G SR/ LR SFP+ interface are getting used only	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.
63	7.4	53	NGFW/UTM	Minimum 2 x USB Ports	USB port is used for device login and device auto configuration. One USB is sufficient for this purpose. Please amend this point.		Please refer to Addendum and Corrigendum - 1 for the revised specifications.



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64	7.4	53	NGFW/UTM	NA, Addition	The solution must offer 10 Virtual Firewall from day 1 and must be upgradable to 100 by adding just a license to it. Each virtual firewall can be configured with all above said security parameters. Virtual firewalls can be in a combination of NAT/Transparent mode		RFP terms and conditions prevail.
65	7.4	53	NGFW/UTM	NA, Addition	OEM must be present in Gartner leader/Challenger quadrant of Enterprise firewall for last 3 years. OEM must be recommended by NSS Labs firewall report. Solution must be EAL4 & NDPP certified.		RFP terms and conditions prevail.

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66	7.4	53	NGFW/UTM	Inbuilt Storage with minimum 200 GB Capacity	Since all the logs, events and alerts will be sent to sms system, Inbuilt storage of 100GB capacity should be sufficient so please change to "Inbuilt Storage with minimum 100 GB Capacity"		RFP terms and conditions prevail.
67	7.4	53	NGFW/UTM	Minimum 2,50,000 New Sessions/sec • Minimum 1,00,00,000 Concurrent sessions	For a smart city network, high number of new sessions / sec and concurrent sessions is recommended, since whole city may access services. Please change to " • Minimum 4,00,000 New Sessions/sec or more • Minimum 2,00,00,000 Concurrent sessions"		RFP terms and conditions prevail.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
68	7.4	53	NGFW/UTM	Minimum 3.5 Gbps for SSL VPN throughput or higher	Pls include Ipsec as option along with SSL VPN, change to "Minimum 3.5 Gbps for SSL/IPSec VPN throughput or higher"		RFP terms and conditions prevail.
69	7.4	53	NGFW/UTM	Should have minimum of 200 GB storage space	Since all the logs, events and alerts will be sent to ems system, Inbuilt storage of 100GB capacity should be sufficient, please change to "Inbuilt Storage with minimum 100 GB Capacity"		This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.

## Response to Pre-Bid Queries for Active Components queries

RFP for Creation of OFC Network for BRTS Corridor and other important SMC Locations Connected Surat Project

Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
70	7.4	55	NGFW/UTM	Should act as a wireless controller, Simple plug-and-play deployment of wireless access points (APs) - automatically appear on the firewall control centre, Central monitor and manage all APs and wireless clients through the built-in wireless controller, Support for IEEE 802.1X (RADIUS authentication), Wireless repeating with supported Aps.	Wireless services would not be required in a Datacenter firewall. Request to remove this point		RFP terms and conditions prevail.
71	7.5	57	Indoor Access Switch for connecting SMC locations - Operating Temperature	0°C to 50°C	Please change it to 0°C to 45°C	For switches which are placed within enclosure, 45 degree temperature is more than sufficient.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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RFP for Creation of OFC Network for BRTS Corridor and other important SMC Locations Connected Surat Project

Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
72	7.5	57	Indoor Access Switch for connecting SMC locations - General Requirement	The switch should have support for 10G based SR; LRM and CX modules for interconnecting the switch over Multimode OM4 or OM3 grade fiber; Single Mode Fire and Copper media	Please remove the LRM and CX modules	For Fiber Ring network, mostly 10G SR/ LR SFP+ interfaces are getting used.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
73	7.5	58	Indoor Access Switch for connecting SMC locations - General Requirement	The switch should have separate stacking module and connectors in addition to the user ports or Uplinks ports mentioned above. All the necessary hardware and software should be provided with the switch.	Please change this to switch should support stacking . Kindly separate dedicated stacking module mentioned.	This is specific to single OEM. Different OEM does have different stacking technologies which are much superior than traditional stacking through dedicated module.	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.
74	7.5	58	Indoor Access Switch for connecting SMC locations - General Requirement	The switch should have minimum stacking bandwidth of 80 Gbps per switch.	Please change to stacking bandwidth of 40 Gbps per switch	This is specific to single OEM. Different OEM does have different stacking technologies which are much superior than traditional stacking through dedicated module.	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
75	7.5	59	Indoor Access Switch for connecting SMC locations - QoS	The switch should support IP Filtering, Policies, & Offset	Please remove offset	Offset is required at core / data center switches only as per standard practise. Hence please remove it from access switches specs.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
76	7.5	59	Indoor Access Switch for connecting SMC locations - Security	The switch should support MAC Authentication Bypass	Please change this to MAC authentication bypass/ Guest VLAN with limited access to network	This is specific to single OEM. Kindly change as requested to accommodate the other leading OEM. Different OEM has different technique for mac authentication bypass.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
77	7.5	59	Indoor Access Switch for connecting SMC locations - Security	The switch should support Endpoint Security- DHCP / Hub/dot1x mode support	Please remove the Hub	Please clarify on HUB	Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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RFP for Creation of OFC Network for BRTS Corridor and other important SMC Locations Connected Surat Project

Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
78	7.5	60	Indoor Access Switch for connecting SMC locations - Security	The switch should support Multiple authentication methods inclusive of 802.1x, MAC Authentication Bypass and Web Authentication with the same consistent configuration	Please change this to MAC authentication bypass/ Guest VLAN with limited access to network	This is specific to single OEM. Kindly change as requested to accommodate the other leading OEM. Different OEM has different technique for mac authentication bypass.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
79	7.5	60	Indoor Access Switch for connecting SMC locations - Security	The switch should support Policy Based ACL	Please remove Policy Based ACL	This feature is required for Layer 3 switches at core or aggregation switches. Please remove it from access switches as no one does PBR at access as per the industry best practise.	RFP terms and conditions prevail.
80	7.5	60	Indoor Access Switch for connecting SMC locations - Management & Operations	The switch should support Web-based Management	Please change it to CLI/Web-based Management	Please CLI based configuration is being used for access switches	Please refer to Addendum and Corrigendum - 1 for the revised specifications.

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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
81	7.5	60	Indoor Access Switch for connecting SMC locations - Management & Operations	The switch should support HTTPS (SSL based Browser Support)	Please change it to CLI/support HTTPS (SSL based Browser Support)	Please CLI based configuration is being used for access switches	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.
82	7.5	60	Indoor Access Switch for connecting SMC locations - Management & Operations	The switch should support Dynamic power management	Please remove this point,	Kindly change this to EEE as per latest standard.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.
83	7.5	60	Indoor Access Switch for connecting SMC locations - Management & Operations	The switch should support Dynamic power management	Please remove this point,	Kindly change this to EEE as per latest standard.	Please refer to Addendum and Corrigendum - 1 for the revised specifications.



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Sr. No.	RFP Section	RFP Page No	Category	Content of the RFP requiring clarification	Clarification Sought	Justification / Reasoning for the Changes Requested	Clarifications
84	7.5	60	Indoor Access Switch for connecting SMC locations - Management & Operations	The switch must support Location Based Awareness and Mobility thereby, allowing a better Network Visibility and Control as well as Asset Tracking Functionality	Please remove this point,	This is specific to single OEM. Kindly remove as requested to accommodate the other leading OEM	This clause stands deleted. Please refer to Addendum and Corrigendum - 1 for the revised specifications.