

# Addendum & Corrigendum-1

## Request for Proposal

### for

## Creation of OFC Network for BRTS Corridor and other important SMC Locations

Tender Number: **SSCDL-ConnectedSurat-OFC-RFP-01-2018**

Last date for Online Price Bid Submission: **13.07.2018**



Invited by  
Surat Smart City Development limited  
115, Smart City Cell, Surat Municipal Corporation,  
Muglisara, Main Road, Surat - 395003, Gujarat.

**Surat Smart City Development Limited**  
**ADDENDUM AND CORRIGENDUM-1**  
**RFP No.: SSCDL-ConnectedSurat-OFC-RFP-01-2018**

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The Bidders are requested to take note of the following changes made in the RFP documents, which are to be taken in to account while submitting the RFP. They shall be presumed to have done so and submitted the RFP accordingly.

- This Addendum and Corrigendum-1 shall be the part of the RFP documents.
- All items specified in this Addendum and Corrigendum-1 supersede relevant items to that effect as provided in the original RFP documents. All other specifications, terms and conditions of the original RFP document shall remain unchanged.
- *The queries raised and given by bidders, but the clarifications are not made in this Addendum and Corrigendum-1 shall be considered to remain unchanged as per the terms and conditions mentioned in the original RFP documents.*
- *Please read all changes across the RFP as applicable. The above changes is also valid for draft Master Service Agreement mentioned in RFP.*

#	Tender Reference	Existing Clause	Amended / New Clause
1.	<b>Change in RFP Submission Dates</b>		
	<b>Particular</b>	<b>Current Dates</b>	<b>Proposed Dates</b>
	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 03.07.2018 up to 18:00 hrs.	To be submitted online only on <a href="https://smc.nprocure.com">https://smc.nprocure.com</a> on or before <b>13.07.2018</b> up to 18:00 hrs.
	Technical Bid Submission (in Hard Copy) along with EMD & Bid fee	In sealed envelope strictly by RPAD/Postal Speed Post on or before 07.07.2018 up to 18:00 hrs. to the Chief Accounts, Surat Municipal Corporation, Muglisara, Surat – 395003	In sealed envelope strictly by RPAD/Postal Speed Post on or before <b>18.07.2018</b> up to 18:00 hrs. to the Chief Accounts, Surat Municipal Corporation, Muglisara, Surat – 395003
2.	7.10 Bid fees and EMD amount, point 3	The format for BG is enclosed in Annexure 13.4, The details of the SSCDL bank is as below	The format for BG is enclosed in Annexure 13.1, and <b>List of Approved Banks is as per provided in this document.</b>
3.	RFP- Volume 1, Section 8.2.1 SLA Matrix for Post Implementation SLAs		<b>Please refer to revised SLA as per Annexure – I of this document.</b>
4.	RFP- Volume 1, Section 9.1, Milestones Implementation & Post Implementation Phase		<b>Please refer to revised Milestone as per Annexure – II-A of this document.</b>
5.	RFP- Volume 1, Section 9.3 Payment Schedule		<b>Please refer to revised payment terms as per Annexure – II-B of this document.</b>
6.	RFP –Volume 1 , Section 11, General Instructions on Preparation of Technical Proposal	<p><b>Compliance to Technical and Functional Specifications from the OEM:</b> The bidder must provide the Compliance to Technical and Functional Specifications in form of undertaking for all the items as mentioned in Volume 2, Annexure I &amp; Annexure II (Section 7 &amp; Section 8 respectively) from respective OEMs on OEM's letter head duly signed by authorized signatory of OEM for the following items:</p> <ul style="list-style-type: none"> <li>• Core Switch for NOC Location</li> <li>• Internet Router</li> <li>• PoP Switch</li> <li>• Next Generation Firewall</li> <li>• Indoor Access Switch for Connecting SMC Locations</li> <li>• UPS for Access Location &amp; PoP Location</li> <li>• Servers</li> <li>• 42U rack</li> <li>• 9U rack</li> <li>• OFC - 96, 48 and 12 core</li> <li>• Remote Fiber Monitoring System</li> <li>• SMPS</li> </ul>	<p><b>Compliance to Technical and Functional Specifications from the OEM:</b> The bidder must provide the Compliance to Technical and Functional Specifications in form of undertaking for all the items as mentioned in Volume 2, Annexure I &amp; Annexure II (Section 7 &amp; Section 8 respectively) from respective OEMs on OEM's letter head duly signed by authorized signatory of OEM for the following items:</p> <ul style="list-style-type: none"> <li>• Core Switch for NOC Location</li> <li>• Internet Router</li> <li>• PoP Switch</li> <li>• Next Generation Firewall</li> <li>• Indoor Access Switch for Connecting SMC Locations</li> <li>• UPS for Access Location &amp; PoP Location</li> <li>• Servers</li> <li>• 42U rack</li> <li>• 9U rack</li> <li>• OFC - 96, 48 and 12 core</li> <li>• Remote Fiber Monitoring System</li> <li>• <del>SMPS( Stands deleted)</del></li> </ul> <p><b>Note:</b> The bidder (in case of consortium prime bidder) is required to provide the Compliance to Technical and Functional Specifications in form of undertaking for all the items as mentioned in Volume 2, Annexure I &amp; Annexure II (Section 7 &amp; Section 8 respectively). Please refer section 11 of RFP Volume 1.</p>

7.	RFP –Volume 1 , Section 11, General Instructions on Preparation of Technical Proposal	<p><b>Make &amp; Models:</b> The bidder must clearly mention the Make and Model of all the below mentioned Active and Passive components.</p> <ul style="list-style-type: none"> <li>• Core Switch for NOC Location</li> <li>• Internet Router</li> <li>• PoP Switch</li> <li>• Next Generation Firewall</li> <li>• Indoor Access Switch for Connecting SMC Locations</li> <li>• UPS for Access Location &amp; PoP Location</li> <li>• Servers</li> <li>• Fiber Distribution Panel</li> <li>• 42U rack</li> <li>• 9U rack</li> <li>• OFC - 96,48 and 12 core</li> <li>• Remote Fiber Monitoring System</li> <li>• SMPS</li> </ul>	<p><b>Make &amp; Models:</b> The bidder must clearly mention the Make and Model of all the below mentioned Active and Passive components.</p> <ul style="list-style-type: none"> <li>• Core Switch for NOC Location</li> <li>• Internet Router</li> <li>• PoP Switch</li> <li>• Next Generation Firewall</li> <li>• Indoor Access Switch for Connecting SMC Locations</li> <li>• UPS for Access Location &amp; PoP Location</li> <li>• Servers</li> <li>• Fiber Distribution Panel</li> <li>• 42U rack</li> <li>• 9U rack</li> <li>• OFC - 96,48 and 12 core</li> <li>• Remote Fiber Monitoring System</li> <li>• <b>SMPS (Stands deleted)</b></li> </ul>
8.	RFP –Volume 1 , Section 11, General Instructions on Preparation of Technical Proposal	<p><b>Authorization letter from OEM:</b> The bidder must submit the authorisation from the OEM as per the format mentioned in TQ_9 for the following components:</p> <ul style="list-style-type: none"> <li>• Core Switch for NOC Location</li> <li>• Internet Router</li> <li>• PoP Switch</li> <li>• Next Generation Firewall</li> <li>• Indoor Access Switch for Connecting SMC Locations</li> <li>• UPS for Access Location &amp; PoP Location</li> <li>• Servers</li> <li>• Fiber Distribution Panel</li> <li>• 42U rack</li> <li>• 9U rack</li> <li>• OFC - 96,48 and 12 core</li> <li>• Remote Fiber Monitoring System</li> <li>• SMPS</li> </ul>	<p><b>Authorization letter from OEM:</b> The bidder must submit the authorisation from the OEM as per the format mentioned in TQ_9 for the following components:</p> <ul style="list-style-type: none"> <li>• Core Switch for NOC Location</li> <li>• Internet Router</li> <li>• PoP Switch</li> <li>• Next Generation Firewall</li> <li>• Indoor Access Switch for Connecting SMC Locations</li> <li>• UPS for Access Location &amp; PoP Location</li> <li>• Servers</li> <li>• Fiber Distribution Panel</li> <li>• 42U rack</li> <li>• 9U rack</li> <li>• OFC - 96,48 and 12 core</li> <li>• Remote Fiber Monitoring System</li> <li>• <b>SMPS (Stands deleted)</b></li> </ul>
9.	Vo 1, 12.2.4. Schedule II Page 81-82 & 12.2.6. Schedule IV Page 84-85	Schedule II & Schedule IV	Please refer to revised Schedule II & Schedule IV as per Annexure – III of this document.
10.	RFP-Volume-2, Annexure III	The make and model for this switch is CISCO: SG-300-28.However, bidder is required to procure the SFP module for the installed switches at each BRTS stations.	<p>The make and model for this switch is CISCO: SG-300-28.However, bidder is required to procure the SFP module for the installed switches at each BRTS stations.</p> <p><b>SFP proposed must be compatible with SG 300-28 (CISCO) Switch and should be of 1GE SFP Single mode fiber, 1310nm wavelength supporting distance of 10 Km or 40 Km or as per Network design proposed by bidder/SI</b></p>
11.	Volume 2, Section 4 Solution Architecture, Figure 1 - Conceptual Architecture Diagram for Fiber Optic Network	<ul style="list-style-type: none"> <li>• Core Layer 96F loose tube unarmored cable</li> <li>• Access Layer 48F loose tube unarmored cable</li> </ul>	<ul style="list-style-type: none"> <li>• Core Layer 96F loose tube <b>Armored</b> cable</li> <li>• Access Layer 48F loose tube <b>Armored</b> cable</li> </ul> <p><b>Note: Please read 96F loose tube unarmored cable as 96F loose tube Armored cable and 48F loose tube</b></p>

			unarmored cable as 48F loose tube Armored cable across the RFP Volume 1 and Volume 2 wherever applicable.
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### Annexure I: 8.2.1 Revised SLA Matrix for Post Implementation SLAs

#	Performance Area	SLA	Penalty
<b>Network &amp; Equipment Reliability</b>			
1	<b>Network Availability (NA)</b>  <b>NA for month (%) =</b>  $100\% - [\{\text{Sum Product of: edge locations experiencing downtime, (Edge location down time(min) in a month - Edge location planned downtime)} / \text{Number of edge locations} * (\text{Total minutes in a month} - \text{Planned network downtime})]$  <b>X = [100-(uptime value)]/2</b>  <b>Link will be considered as down even if it does not meet the below service parameters:</b> <ul style="list-style-type: none"> <li>- If RTT/Latency between EMS/NMS server and endpoint is &gt;25 ms (observed consistently for 50 ping requests with data load of 1500 bytes/Full bandwidth throughput/load for that particular link)</li> <li>- If average Packet loss between EMS/NMS server and endpoint is more than 1% for 1000 ping requests with data load of 1500 bytes/Full bandwidth throughput/load for that particular link.</li> </ul>	>=99.95%	No penalty
		<99.95% to >=98.5%	Penalty of 1% of total monthly project cost per month [monthly project cost = total project cost / (7*12); total project cost includes capex and opex]
		<98.5 %	Penalty of X% of total monthly project cost per month [monthly project cost = total project cost / (7*12); total project cost includes capax and opax]
2	<b>Mean Time To Repair (MTTR) -</b> for each Fiber failure  MTTR shall be monitored on the time taken between logging of	<= 6 hrs per reported fiber failure	No penalty
		>6 hours to <10 hours	Penalty of Rs 10,000 per month per fiber failure(cut) to be paid

#	Performance Area	SLA	Penalty
	complain against the network & its closure	>10 hours	Penalty of Rs 15,000 per month per fiber failure(cut) to be paid
3	<b>Mean Time To Repair (MTTR) -</b> for each active network equipments and UPS, SMPS  MTTR shall be monitored on the time taken between logging of complain against the network & its closure	$\leq 120$ mins	No penalty
		>120 mins to $\leq 240$ mins	Penalty of 0.2% of purchase cost for that particular equipment during warranty or 1% of yearly AMC for that particular equipment
		>240 mins to $\leq 480$ mins.	Penalty of 0.5% of purchase cost for that particular equipment during warranty or 2.5% of yearly AMC for that particular equipment
		> 480 min.	Penalty of 1% of purchase cost for that particular equipment during warranty or 5% of yearly AMC for that particular equipment or Rs. 1000 for each day's delay whichever is higher.
<b>Helpdesk</b>			
4	<b>Helpdesk Availability (HA)</b> <i>All incidents raised should be logged into the system and service tickets should be provided to end user</i>  <i>The reports generated from the ticket logging system shall be used for penalty calculation.</i>	100% calls to be logged & tickets to be generated	No penalty
		$\leq 99\%$ to $\leq 95\%$	Flat Rs. 5000 per month.
		$\leq 95\%$ to $\leq 90\%$	Flat Rs. 10000 per month
		$\leq 90\%$	Flat Rs. 25000 per month

## Annexure II

### 9.1 Revised Milestones Implementation & Post Implementation Phase

*T= 15 days from date of Lol*

Sr No	Milestone	Timelines
1	Site survey, Solution Design, Preparation & Acceptance of Final Bill of Quantity	T + 1 month
2	Implementation/Go Live of Fibre Optic Cable and Accessories (Active & Passive components) on SITC (Supply Installation Testing and Commissioning) Basis for Interconnecting BRTS Bus Stations along With other SMC locations as per the scope of the RFP	T+6 months
3	Operation & Maintenance for 7 years	G=Post Go-Live of Complete Network + 1 month of stabilization period. i.e. post T+7 months
4	Monetization of Empty Duct	G + 21 years

**Note:**

1. G is defined as Post Go-Live of Complete Network + 1 month of stabilization period. i.e. post T+7 months
2. During 1 month of stabilization period, SI is not eligible to get any Operation and Maintenance (O&M) cost and neither any SLA will be applicable. O&M phase will be initiated only after completion of stabilization period of 1 month.

### 9.3 Revised Payment Schedule

SSCDL shall use the following payment milestones:

- 10% of CAPEX against supply, installation and commissioning of Network Operating Center (NOC)
- 10% of CAPEX against supply of All Active Components other than NOC
- 30% of CAPEX against the Go Live of Core ring
- 20% of CAPEX against Go Live of Complete Network
- 10% of CAPEX after 1 month of stabilization period post Go Live of Complete Network
- 10% of CAPEX in equal half yearly installments in 1 year after Go Live of complete network
- 10% of CAPEX in equal yearly installments in 4 year after starting from second year post Go Live of complete network (2.5% on completion of each year)
- 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.

### Annexure III

#### 12.2.4 – Revised Schedule II: Estimation of Supply, Installation, Testing and Commissioning (SITC) of Active Components

#	Particulars	Measurement Unit	Qty	Unit Price (INR)	Net Value(INR)	Taxes(INR)	Total(INR)
<b>1</b>	<b>Network Operation Center</b>						
1.1	Core Switch	Nos	2				
1.2	Internet Router	Nos	2				
1.3	Access Switch	Nos	2				
1.4	Next Generation Firewall / UTM	Nos	2				
1.5	Single mode SFP module compatible with SG 300-28 switch (CISCO)	Nos	312				
1.6	Server with Operating System	Lot	1				
1.7	EMS including NMS and helpdesk	Nos	1				
1.8	Remote Fiber Monitoring System	No	1				
1.9	Database software with license	Lot	1				
1.10	Antivirus License	Lot	1				
1.11	42 U Rack with accessories	No	4				
1.12	Centralized Logging & Reporting Solution For All types of Logs/Devices	No	1				
<b>2</b>	<b>PoP Locations</b>						
2.1	Mega POP/POP Switches	No	8				
2.2	Supply of Access Control System	Sets	4				
2.3	UPS	No	4				
2.4	Rack - 42U with accessories	Nos	8				
2.5	Rodent System	Nos	4				
<b>3</b>	<b>Access Locations</b>						
3.1	Indoor Switches	No	25				
3.2	UPS	No	25				



3.3	Rack - 9U with accessories	Nos	156				
<b>Total - Schedule II (INR)</b>							

**Note:**

- i. The quantities mentioned are tentative in nature to arrive at L1 cost. The actual quantity may vary at the time of implementation
- ii. Lot is defined for the items where Bidder is required to propose the quantity as per their design consideration i.e. Server, Antivirus and Database. Thus, bidder is required to quote accordingly
- iii. All active components are with 5 years warranty

**12.2.6. – Revised Schedule IV: O&M for Active Components**

#	Particulars	Measurement Unit	Quantity	Y6	Y7	Total Net Amount (INR)	Total Taxes (INR)	Total Amount (INR)
<b>1</b>	<b>Network Operation Center</b>							
1.1	Core Switch	Nos	2					
1.2	Internet Router	Nos	2					
1.3	Access Switch	Nos	2					
1.4	Next Generation Firewall / UTM	Nos	2					
1.5	Single mode SFP module compatible with SG 300-28 switch (CISCO)	Nos	312					
1.6	Server with Operating System	Lot	1					
1.7	EMS including NMS and helpdesk	Nos	1					
1.8	Remote Fiber Monitoring System	No	1					
1.9	Database software with license	Lot	1					
1.10	Antivirus License	Lot	1					
1.11	42 U Rack with accessories	No	4					
1.12	Centralized Logging & Reporting Solution For All types of Logs/Devices	No	1					

<b>2 PoP Locations</b>								
2.1	Mega POP/POP Switches	No	8					
2.2	Supply of Access Control System	Sets	4					
2.3	UPS	No	4					
2.4	Rack - 42U with accessories	Nos	8					
2.5	Rodent System	Nos	4					
<b>3 Access Locations</b>								
3.1	Indoor Switches	No	25					
3.2	UPS	No	25					
3.3	Rack - 9U with accessories	Nos	156					
<b>Total Amount in INR</b>								
<b>NPV in INR</b>								

**Note:**

- i. The quantities mentioned are tentative in nature to arrive at L1 cost. The actual quantity may vary at the time of implementation
- ii. Lot is defined for the items where Bidder is required to propose the quantity i.e. Server, Antivirus and Database
- iii. All active components to be supplied are with 5 years warranty and hence O&M cost for 6th and 7th year to be provided
- iv Price quoted for Y6 and Y7 should be for quantity mentioned and not for the single quantity

**Annexure to 13.1 Approved List of Banks**

Under this contract, wherever the contractor is required to submit F.D.R., bank guarantee, etc. against payment towards any deposit or advance e.g. EMD, SD, etc. Such F.D.R, bank guarantees, etc. shall be produced from any one of the following Nationalized Bank as listed below:

- 1) Indian Bank
- 2) State Bank of India
- 3) Punjab National Bank
- 4) Bank of Baroda
- 5) Union Bank of India
- 6) Bank of India

- 7) Oriental Bank of Commerce
- 8) Canara Bank
- 9) Central Bank of India
- 10) Corporation Bank
- 11) Allahabad Bank
- 12) Indian Overseas Bank
- 13) Dena Bank
- 14) Syndicate Bank
- 15) Andhra Bank
- 16) Punjab & Sind Bank
- 17) Bank of Maharashtra
- 18) Vijaya Bank
- 19) United Bank of India
- 20) UCO Bank or Any other Nationalized Bank
- 21) IDBI
- 22) HDFC
- 23) AXIS BANK
- 24) ICICI Bank Limited
- 25) The Surat People's Co—operative Bank Ltd.
- 26) The Mehsana Urban Co-operative Bank Ltd.
- 27) Kotak Mahindra Bank
- 28) The Kalupur Commercial Co-operative Bank Ltd.
- 29) Rajkot Nagrik Sahkari Bank Ltd.
- 30) The Ahmedabad Mercantile Co-operative Bank Ltd.
- 31) Development Credit Bank Ltd.
- 32) YES Bank Ltd