



**Surat
Municipal
Corporation**

ADDENDUM & CORRIGENDUM-1

REQUEST FOR PROPOSAL

FOR

**SELECTION OF IMPLEMENTATION AGENCY FOR
INTEGRATED COMMAND AND CONTROL CENTER
(ICCC) IN SURAT CITY**

RFP No.: SSCDL-ICCC-RFP-02-2019

Last date for Price Bid Submission: 09.10.2019



Invited by

Surat Smart City Development Limited

1st Floor, South Zone Office, Surat Municipal
Corporation, Opp. Satyanagar, Udhna, Surat-
394210, Gujarat, India

Surat Smart City Development Limited

ADDENDUM AND CORRIGENDUM-1

RFP Notification No.: SSCDL-ICCC-RFP-02-2019

The Bidder 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 shall be the part of the RFP documents.
- All items specified in this Addendum and Corrigendum 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.
- Bidder shall read and consider following points, which shall be a part of the RFP documents.
- All the changes mentioned in this document should be read across the RFP, Addendum & Corrigendum, wherever applicable.
- **The queries raised and given by bidders, but the clarifications are not made in this Addendum and Corrigendum shall be considered to remain unchanged as per the terms and conditions mentioned in the original RFP documents.**

Changes with respect to RFP Schedule

Please note that with respect to tendering schedules, the following changes have been effected. Bidders are requested to take note of the same and adhere to the dates specified hereunder with regards to Price Bid Submission and Technical Bid Submission:

Particular	Current Dates	Proposed Dates
Online Price Bid Submission Date	24.09.2019 up to 18:00 hrs.	09.10.2019 up to 18:00 hrs.
Technical Bid Submission (in Hard Copy) Filled-in Technical Bid along with Bid Fee, EMD and other documents	In sealed envelope strictly by RPAD/Postal Speed Post On or before 27.09.2019 up to 18:00 hrs. To the Chief Accounts, Surat Municipal Corporation, Muglisara, Surat – 395003, Gujarat by RPAD or Speed Post Only.	In sealed envelope strictly by RPAD/Postal Speed Post On or before 15.10.2019 up to 18:00 hrs. To the Chief Accounts, Surat Municipal Corporation, Muglisara, Surat – 395003, Gujarat by RPAD or Speed Post Only.

ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for Integrated Command Control Centre (ICCC) in Surat [RFP No.: SSCDL-ICCC-RFP-02-2019]



Other Changes

#	Section	Page No.	Tender Reference	Existing Clause	Amended/New Clause
1.	5.1	20	Bidder's Eligibility Criteria		Please refer to Annexure I for revised Bidder's Eligibility Criteria
2.	5.2	23	OEM's Eligibility Criteria	F. DC Application & Delivery Controller with Global Server Load Balancing	The OEM eligibility criteria for " F. DC Application & Delivery Controller with Global Server Load Balancing " stands deleted
3.	6.22	36	Technical Evaluation Criteria		Please refer to Annexure II for revised Technical Evaluation Criteria
4.	10.4	62	PQ_3: Bidder's Annual turnover over last 3 financial years		Please refer to Annexure III for revised PQ 3. Kindly read the Financial year changes across the RFP wherever applicable.
5.	10.5	64	PQ_4: Auditor's/CA Certificate for turnover for bidder		Please refer to Annexure III for revised PQ 4. Kindly read the Financial year changes across the RFP wherever applicable.
6.	10.12	74	PQ_11: Format for Specifying the Make & Model		Please refer to Annexure IV for revised format
7.	12.3	90	Commercial Bid Format		Please refer to Annexure V for revised Commercial Bid Format
8.	15	155-223	Annexure III- Technical requirements for ICT Components		Please refer to Annexure VI for revised specifications for below components: <ol style="list-style-type: none"> 1. 15.12 - Projector 1 (6000 Lumens) 2. 15.16 - 55" LED Display Screen 3. 15.22 - DC Core Switch

ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for Integrated Command Control Centre (ICCC) in Surat [RFP No.: SSCDL-ICCC-RFP-02-2019]



#	Section	Page No.	Tender Reference	Existing Clause	Amended/New Clause
					<p>4. 15.25 - 10G SFP+ SR/LR Transceiver Module for DC Core Switch will be read as "10G SFP+LR Transceiver Module for DC Core Switch"</p> <p>5. 15.27 - 40G QSFP+ LR4/SR4 Transceiver Module for DC Core Switch will be read as "40G QSFP+ LR4 Transceiver Module for DC Core Switch"</p> <p>6. 15.28 - DC TOR / DC Aggregation Switch Type-1</p> <p>7. 15.29 - DC TOR / DC Aggregation Switch Type-2</p> <p>8. 15.30 - 40G QSFP+ LR4/SR4 Transceiver Module for DC TOR/ DC Aggregation Switch will be read as "40G QSFP+ LR4 Transceiver Module for DC TOR/ DC Aggregation Switch"</p> <p>9. 15.31 - 10G SFP+ SR/LR Transceiver Module for DC TOR / DC Aggregation Switch will be read as "10G SFP+ LR Transceiver Module for DC TOR / DC Aggregation Switch"</p>
9.	15.43			New Component Added : VM based Network Access Control Solution	<p>Please refer to Annexure VI for specifications</p> <p>Note: SSCDL/SMC may or may not procure "VM based Network Access Control Solution" under this contract. However, bidder is required to quote as part of BoQ for L1 evaluation.</p>

ANNEXURE-I

5.1 Revised Bidder's Eligibility Criteria

Note: For evaluation following definition is considered

- The total Project value shall be considered as Capex Cost + Operation & Maintenance Cost
- OEM experience will not be considered for Pre-Qualification Criteria and Technical Evaluation as bidder's experience unless bidder is also an OEM.
- **Integrated Command & Control Centre (ICCC)/ Command Control Centre (CCC):** ICCC/CCC Project is defined as those project where Command Centre Application is implemented. ICCC Application at such installation should not only be a viewing platform but should be used for SOP creation and triggering for specific event/incident. Project only pertaining to NOC and/or Data Center Monitoring will not be considered.
- In case of Consortium only 2 partners are allowed including Prime Bidder. For more details on Consortium please refer to the section 6.6
- R&R refers to roles & responsibilities mentioned in Consortium Agreement

#	Eligibility Criteria	Proof Document Required	Applicable to Sole Bidder	Applicable to Consortium
1.	The Prime Bidder / Sole Bidder should be registered under the Companies Act 1956 and should be in operation in India for a period of at least 5 years as on publication of bid. In case of Consortium, the Consortium Partner should be registered under the Companies Act 1956 Or a partnership firm registered under LLP Act, 2008 or partnership firm registered under Indian Partnership Act 1932	Copy of certification of incorporation issued by competent authority/ Registration Certificate	Yes	Yes
2.	Bidder (consortium)/ Sole Bidder jointly should have a minimum average annual turnover of Rs. 100 crore from ICT based business for last three financial years i.e. FY 2018-19, FY 2017-18, 2016-17 . In case of consortium, each partner should have minimum average turnover of Rs. 25 Cr. The copies of Audited Annual Accounts for last three years to be submitted along with the bid [FY 2018-19, FY 2017-18, 2016-17]. If 2018-19 Financial Statements of any bidder is unaudited then the	Copy of the Audited Profit and Loss statement and statutory auditor / CA certificate from a regarding turnover. The certificate should be originally signed or notarized.	Yes	Yes

**ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for
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#	Eligibility Criteria	Proof Document Required	Applicable to Sole Bidder	Applicable to Consortium
	Audited Financial Statements of 2017-18 along with an undertaking letter from the bidder that the 2018-19 Statements are not audited is to be submitted.			
3.	<p>Bidder/ Consortium should have a positive net worth as on 31st March 2019</p> <p>If 2018-19 Financial Statements of any bidder is unaudited then Bidder should have a positive net worth as on 31st March 2018. Moreover, an undertaking letter from the bidder that the 2018-19 Statements are not audited is to be submitted</p>	Certificate from the statutory auditor / CA towards positive net worth of the company. The certificate should be originally signed or notarized	Yes	Yes (All Members of Consortium)
4.	<p>Sole Bidder / Bidder (Any member in case of Consortium as per R&R defined in Consortium Agreement) should have an experience in implementation of Integrated Command & Control Centre (ICCC) / Command Control Center (CCC) in India in last 7 years from the date of publishing this RFP</p> <p>One project costing not less than the amount equal to INR 20 Cr. with ICCC application solution component worth minimum INR 2.5 Cr.</p> <p>OR</p> <p>Two projects costing not less than the amount equal to INR 12 Cr. each with ICCC application solution component worth minimum INR 1.5 Cr.</p> <p>OR</p> <p>Three projects costing not less than the amount equal to INR 10 Cr. each with ICCC application solution component worth minimum INR 1.25 Cr.</p> <p>Note: ICCC Application cost component shall include:</p>	<ul style="list-style-type: none"> • Copy of completion certificate issued by client • In case of an ongoing project, the project must have achieved the respective value in terms of entire project cost and ICCC application & Video Wall Solution component respectively from financial perspective. The Certificate to this effect from the client on client's letter head to be provided. • Copy of Work order / Contract 	Yes	Yes (Any member of Consortium)

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#	Eligibility Criteria	Proof Document Required	Applicable to Sole Bidder	Applicable to Consortium
	<ol style="list-style-type: none"> 1. Licenses cost for ICCC Applications 2. SITC cost 3. Integration cost 4. Operation & Maintenance cost 			
5.	<p>Sole Bidder / Bidder (Any member in case of Consortium as per R&R defined in Consortium Agreement) should have completed at least one project pertaining to setting up of Datacenter / Data Center Infrastructure in last 7 years as on Bid Submission date of value not less than INR 3 Crore in India.</p> <p>Note: In-house projects for own or group companies shall not be considered for above criteria. Data Center Infrastructure cost should be excluding software license cost.</p>	<ol style="list-style-type: none"> 1. Copy of completion certificate issued by client 2. Copy of Work order / Contract 	Yes	Yes (Any member of Consortium)
6.	Bidder should be registered for GST number in India.	GST Registration Certificate PAN Card	Yes	Yes (All Members of Consortium)
7.	Bidder should not be blacklisted or debarred by any Government / PSU in India at the time of submission of the bid.	Declaration letter by bidder as per format given in the RFP document	Yes	Yes (All Members of Consortium)

ANNEXURE -II

6.22 Revised Technical Evaluation Criteria

#	Technical Evaluation Criteria	Technical Evaluation parameter	Marks								
A	Bidders Financial Competence & Organizational Strength		20								
1	Bidder's Competence – Turnover	<ul style="list-style-type: none"> Bidder (consortium)/ Sole Bidder jointly should have a minimum average annual turnover of Rs. 100 crore from ICT based business for last three financial years i.e. FY 2018-19, FY 2017-18, 2016-17. In case of consortium, each partner should have minimum average turnover 25 Cr. For every additional Rs.50 Cr of average turnover from ICT business the bidder (jointly in case of consortium) will get additional marks as below, subject to a maximum of 10 marks. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #ff0000; color: white;">Average Turnover (in crores)</th> <th style="background-color: #ff0000; color: white;">Marks</th> </tr> </thead> <tbody> <tr> <td>>= INR 200 Cr</td> <td style="text-align: center;">10</td> </tr> <tr> <td>>= INR 150 Cr. and < INR200 Cr.</td> <td style="text-align: center;">9</td> </tr> <tr> <td>>= INR 100 Cr. and < INR 150 Cr.</td> <td style="text-align: center;">8</td> </tr> </tbody> </table> <p>Maximum Marks: 10</p> <ul style="list-style-type: none"> Bidder to submit the Certificate from the statutory auditor / CA clearly specifying the annual turnover from ICT for the specified years. Original or Notarized copy of the certificate should be submitted The copies of Audited Annual Accounts for last three years to be submitted along with the bid [FY 2018-19, FY 2017-18, 2016-17]. If 2018-19 Financial Statements of any bidder is unaudited then the Audited Financial Statements of 2017-18 along with an undertaking letter from the bidder that the 2018-19 Statements are not audited is to be submitted 	Average Turnover (in crores)	Marks	>= INR 200 Cr	10	>= INR 150 Cr. and < INR200 Cr.	9	>= INR 100 Cr. and < INR 150 Cr.	8	10
Average Turnover (in crores)	Marks										
>= INR 200 Cr	10										
>= INR 150 Cr. and < INR200 Cr.	9										
>= INR 100 Cr. and < INR 150 Cr.	8										
2	People in organization	<ul style="list-style-type: none"> The prime bidder having at least 250 FTE (full time employees) on the payroll of organization working on ICT projects will get 7 marks For every additional FTEs as below the bidder will get additional marks subject to maximum of 5 marks. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #ff0000; color: white;">Number of FTE</th> <th style="background-color: #ff0000; color: white;">Marks</th> </tr> </thead> <tbody> <tr> <td>> 500</td> <td style="text-align: center;">5</td> </tr> <tr> <td>> 250 FTE to =<500 FTE</td> <td style="text-align: center;">4</td> </tr> <tr> <td>= 250 FTE</td> <td style="text-align: center;">3</td> </tr> </tbody> </table> <p>Maximum marks: 5</p> <p>Note: Full time Employees defined as employees on the Payroll of organization.</p> <p>Bidder to submit the Certificate from the HR or Company Secretary clearly specifying the total no of employees within the organization. Original or Notarized copy of the certificate should be submitted</p>	Number of FTE	Marks	> 500	5	> 250 FTE to =<500 FTE	4	= 250 FTE	3	5
Number of FTE	Marks										
> 500	5										
> 250 FTE to =<500 FTE	4										
= 250 FTE	3										
3	Bidder's Certification	<p>Certification with the Sole Bidder or any member of consortium (valid as on date of issuance of the bid):</p> <ul style="list-style-type: none"> ISO 9001:2008 ISO 20000:2011 for IT Service Management 	5								

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Integrated Command Control Centre (ICCC) in Surat
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#	Technical Evaluation Criteria	Technical Evaluation parameter	Marks												
		<ul style="list-style-type: none"> ISO 27001:2013 for Information Security Management System CMMi Level 3 CMMi Level 5 <table border="1"> <thead> <tr> <th>Certification</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>Any one ISO certificate</td> <td>2</td> </tr> <tr> <td>Any two ISO certification or CMMi Level 3</td> <td>3</td> </tr> <tr> <td>All ISO certification or CMMi Level 5 Certification or Any two ISO certification & CMMi Level 3 Certification</td> <td>4</td> </tr> <tr> <td>Any two ISO certification & CMMi Level 5 Certification or All ISO Certification & CMMi Level 3 Certification</td> <td>5</td> </tr> </tbody> </table>	Certification	Marks	Any one ISO certificate	2	Any two ISO certification or CMMi Level 3	3	All ISO certification or CMMi Level 5 Certification or Any two ISO certification & CMMi Level 3 Certification	4	Any two ISO certification & CMMi Level 5 Certification or All ISO Certification & CMMi Level 3 Certification	5			
Certification	Marks														
Any one ISO certificate	2														
Any two ISO certification or CMMi Level 3	3														
All ISO certification or CMMi Level 5 Certification or Any two ISO certification & CMMi Level 3 Certification	4														
Any two ISO certification & CMMi Level 5 Certification or All ISO Certification & CMMi Level 3 Certification	5														
B	Project Experience of Bidder		60												
1	Bidder Experience – Executing Command Control Center Project	<p>Experience of Sole Bidder / Bidder (Any member in case of Consortium as per R&R defined in Consortium Agreement) in implementation of Integrated Command & Control Centre (ICCC) /Command Control Center (CCC) in India in last 7 years from the date of publishing this RFP (maximum 2 projects)</p> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>For satisfying PQ criteria</td> <td>20</td> </tr> <tr> <td align="center" colspan="2">Additional project over and above the projects submitted under PQ criteria</td> </tr> <tr> <td>Every additional project costing not less than the amount equal to INR 20 Cr. with ICCC application with or without video wall solution component worth minimum INR 2.5 Cr.</td> <td>15</td> </tr> <tr> <td>Every additional costing not less than the amount equal to INR 12 Cr. each with ICCC application with or without video wall solution component worth minimum INR 1.5 Cr.</td> <td>9</td> </tr> <tr> <td>Every additional project costing not less than the amount equal to INR 10 Cr. each with ICCC application with or without video wall solution component worth minimum INR 1.25 Cr.</td> <td>7.5</td> </tr> </tbody> </table> <p>Maximum Marks: 35</p> <p>Bidder is required to submit :</p> <ul style="list-style-type: none"> Copy of completion certificate issued by client In case of an ongoing project, the project must have achieved the respective value in terms of entire project cost and ICCC application Solution component respectively from financial perspective. The Certificate to this effect from the client on client's letter head to be provided. Copy of Work order / Contract 	Number of Projects	Marks	For satisfying PQ criteria	20	Additional project over and above the projects submitted under PQ criteria		Every additional project costing not less than the amount equal to INR 20 Cr. with ICCC application with or without video wall solution component worth minimum INR 2.5 Cr.	15	Every additional costing not less than the amount equal to INR 12 Cr. each with ICCC application with or without video wall solution component worth minimum INR 1.5 Cr.	9	Every additional project costing not less than the amount equal to INR 10 Cr. each with ICCC application with or without video wall solution component worth minimum INR 1.25 Cr.	7.5	35
Number of Projects	Marks														
For satisfying PQ criteria	20														
Additional project over and above the projects submitted under PQ criteria															
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Every additional project costing not less than the amount equal to INR 10 Cr. each with ICCC application with or without video wall solution component worth minimum INR 1.25 Cr.	7.5														
	Bidder Experience – Executing Command Control Center Application	Experience of Sole Bidder / Bidder (Any member in case of Consortium as per R&R defined in Consortium Agreement) in implementation of ICCC Solution integrating domains/systems in the last seven (7) years (maximum 2 projects)	20												

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#	Technical Evaluation Criteria	Technical Evaluation parameter	Marks								
		<ol style="list-style-type: none"> Adaptive/Intelligent Traffic Control System (ATCS Signals with or without ANPR, RLVD, Wrong side, Speed detection, etc.) Intelligent Transit Management System Water Supply / Water SCADA Drainage / Drainage SCADA Solid Waste Management Grievance Redressal System CCTV/ Surveillance Network with minimum 50 cameras (Excluding Camera considered under Point 1) Smart Street Lighting Revenue Collection Systems (Property Tax, Water Meter Billing, Other Utility Meter Reading, AFCS etc.) Energy / utility SCADA Network monitoring for large scale WiFi service / dedicated OFC network Smart Parking <table border="1"> <thead> <tr> <th>Particular</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>One project integrating any 4 domains/systems mentioned above</td> <td>10</td> </tr> <tr> <td>One project integrating any 3 domains/systems mentioned above</td> <td>7.5</td> </tr> <tr> <td>One project integrating any 2 domains/systems mentioned above</td> <td>5</td> </tr> </tbody> </table> <p>Maximum Marks: 20 Maximum projects: 2</p> <p>Bidder is required to submit :</p> <ul style="list-style-type: none"> Copy of Work order / Contract Copy of completion certificate issued by client In case of an ongoing project, the claimed domains/systems must have been integrated. The Certificate to this effect from the client on client's letter head to be provided. Self-certificate on bidder's letterhead from authorized signatory clearly defining the use cases implemented under each domain as part of the project. 	Particular	Marks	One project integrating any 4 domains/systems mentioned above	10	One project integrating any 3 domains/systems mentioned above	7.5	One project integrating any 2 domains/systems mentioned above	5	
Particular	Marks										
One project integrating any 4 domains/systems mentioned above	10										
One project integrating any 3 domains/systems mentioned above	7.5										
One project integrating any 2 domains/systems mentioned above	5										
3	Bidder Experience – Executing Data Center Project	<p>Relevant experience of Sole bidder / Bidder (Any member in case of Consortium as per R&R defined in Consortium Agreement) in creation of Datacenter/ Data Center Infrastructure in State Govt./Central Govt./ULB/ Public Sector Units(PSU) in India in past 7 years having minimum project value of Rs. 3 Crore.</p> <p align="center">Each Project: 2.5 marks Maximum Projects: 2</p> <p>Bidder is required to submit :</p> <ul style="list-style-type: none"> Copy of Work Order/ Contract Copy of completion certificate issued by client <p>Note:</p> <ol style="list-style-type: none"> In-house projects for own or group companies shall not be considered for above criteria. Data Center Infrastructure cost should be excluding software license cost 	5								
C	Presentation and Demonstration		20								
1	<p>Presentation and Demonstration Following parameters will be evaluated:</p> <ul style="list-style-type: none"> Understanding of the project Approach & Methodology 		20								

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#	Technical Evaluation Criteria	Technical Evaluation parameter	Marks
	<ul style="list-style-type: none">• Ability to clearly explain the proposed Solution• Uniqueness of proposed solution as per requirement of SSCDL/SMC• Demonstration of proposed ICCC Software for Use cases provided by SSCDL/SMC		

ANNEXURE -III

10.4 Revised PQ_3: Bidder's Annual turnover over last 3 financial years

<<To be printed on bidder company's letterhead and signed by Authorized signatory. In case of Consortium all members are required to submit >>

Date: dd/mm/yyyy

To
Chief Executive Officer ,
1st Floor, South Zone Office,
Surat Municipal Corporation,
Opp. Satyanagar, Udhna,
Surat-394210, Gujarat, India

Subject: Selection of Implementing Agency for Integrated Command and Control Center (ICCC) in Surat

Sir/ Madam,

I have carefully gone through the Terms & Conditions contained in the RFP Document of Selection of Implementing Agency for Integrated Command and Control Center (ICCC) in Surat

I hereby declare that below are the details regarding Overall turnover over last 3 financial years for our organization.

#	Details	FY 2016-17 (i)	FY 2017-18 (ii)	FY 2018-19 (iii)	Average Turnover [(i)+(ii)+(iii)/3]
1	Overall Annual Turnover- Prime Bidder (Consortium Member-1)				

Contact Details of officials for future correspondence regarding the bid process:

Details	Authorized Signatory	Secondary Contact
Name		
Title		
Company Address		
Mobile		
Fax		
Email Id		

I further certify that I am competent officer in my company to make this declaration.

Yours Sincerely,

Signature of Authorized Signatory (with official seal)

Name :
Designation :

Sign
Stamp

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Address :
Telephone& Fax :
E-mail address :

Note:

- To be submitted with any other supporting details specified as Document Proof in Section 5 and 10.1
- The copies of Audited Annual Accounts for last three years to be submitted along with the bid [FY 2018-19, FY 2017-18, 2016-17]. If 2018-19 Financial Statements of any bidder is unaudited then the Audited Financial Statements of 2017-18 along with an undertaking letter from the bidder that the 2018-19 Statements are not audited is to be submitted

10.5 Revised PQ_4: Auditor's/CA Certificate for turnover for bidder

<<To be printed on CA/Auditors company's letterhead and signed by Authorized signatory>>

<<NOTE: To be filed for each Member company in case of a consortium>>

Date: dd/mm/yyyy

This is to certify that the Annual Turnover from ICT and Networth as per books and records of _____ for the following financial years are as under.

#	Financial Year Ending	Annual Turnover (INR)	Networth
1.	31 st March, 2019		
2.	31 st March, 2018		
3.	31 st March, 2017		
	Average Turnover		

I further certify that I am competent officer in my company to make this declaration.

Yours Sincerely,

Signature of Auditor (with official seal)

Name :
Designation :
Address :
Telephone& Fax :
E-mail address :



ANNEXURE-IV

10.12. Revised PQ_11: Format for Specifying the Make & Model

H1. IT HARDWARE WITH 3 YEARS OF WARRANTY SUPPORT

H1. IT HARDWARE WITH 3 YEARS OF WARRANTY SUPPORT									
#	Description	Unit of Measurement	Quantity	Warranty Period (Years)	Proposed Make	Proposed Model/Version	Bidder's Compliance as per Annexure II / III / IV on Letter Head and Datasheets submission	OEM's Compliance as per Annexure II / III / IV on OEM's Letter Head	OEM's Compliance as per PQ_10 /TQ_1
SITC of IT Hardware Components for ICCC									
1	Desktop PC	Number	75	3	Specify	Specify	Yes	Yes	Yes
2	Workstations for ICCC Operators	Number	100	3	Specify	Specify	Yes	Yes	Yes
3	49" Curved Monitor for ICCC Operators	Number	100	3	Specify	Specify	Yes	Yes	Yes
4	Monochrome Printer	Number	20	3	Specify	Specify	Yes	Yes	Yes
5	Multi Function Printer - 1	Number	5	3	Specify	Specify	Yes	Yes	Yes
6	Multi Function Printer -2 (Heavy Duty)	Number	2	3	Specify	Specify	Yes	Yes	Yes
7	Colour Laser Printer	Number	1	3	Specify	Specify	Yes	Yes	Yes
8	Projector-1 (6000 lumens)	Number	2	3	Specify	Specify	Yes	Yes	Yes
9	Projector-2 (3000 lumens)	Number	1	3	Specify	Specify	Yes	Yes	Yes

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H1. IT HARDWARE WITH 3 YEARS OF WARRANTY SUPPORT									
#	Description	Unit of Measurement	Quantity	Warranty Period (Years)	Proposed Make	Proposed Model/Version	Bidder's Compliance as per Annexure II / III / IV on Letter Head and Datasheets submission	OEM's Compliance as per Annexure II / III / IV on OEM's Letter Head	OEM's Compliance as per PQ_10 /TQ_1
10	Projector Screen 1 (200 Inch)	Number	2	3	Specify	Specify	Yes	Yes	Yes
11	Projector Screen 2 (100 Inch)	Number	1	3	Specify	Specify	Yes	Yes	Yes
12	55" LED Display Screen	Number	15	3	Specify	Specify	Yes	Yes	Yes
13	Video Conference System	Number	1	3	Specify	Specify	Yes	Yes	Yes
Civil and Non IT for Data Center and ICCC									
14	42U Rack	Number	15	3	Yes	Yes	Yes	Yes	Yes
15	IP KVM Switch	Number	1	3	Yes	Yes	Yes	NA	Yes
16	Access Control System	Number	1	3	Yes	Yes	Yes	NA	Yes
17	Fire Detection and Alarm System	Number	1	3	Yes	Yes	Yes	Yes	Yes
18	Fire Suppression System	Number	1	3	Yes	Yes	Yes	Yes	Yes
19	Data Center Management System	Number	1	3	Yes	Yes	Yes	Yes	Yes
20	Aspirating Smoke Detector System	Number	1	3	Yes	Yes	Yes	Yes	Yes

Note:

- 1 Bidder is required to mention Make & Model of proposed items wherever in above table is mentioned as "Specify"

ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for Integrated Command Control Centre (ICCC) in Surat [RFP No.: SSCDL-ICCC-RFP-02-2019]



2 Bidder is required to submit the supporting documents like bidder's compliance, OEM's compliances and OEM authorization letter (refer PQ_10/TQ_1) wherever its mentioned as "Yes"

3 NA stands for Not Applicable

Note:

1 Bidder is required to mention Make & Model of proposed items wherever in above table is mentioned as "Specify"

2 Bidder is required to submit the supporting documents like bidder's compliance, OEM's compliances and OEM authorization letter (refer PQ_10/TQ_1) wherever its mentioned as "Yes"

3 NA stands for Not Applicable

H2. IT HARDWARE WITH 3 YEARS OF WARRANTY SUPPORT (Bidder to specify the Quantity)

H2. IT HARDWARE WITH 3 YEARS OF WARRANTY SUPPORT (Bidder to specify the Quantity)									
#	Description	Unit of Measurement	Quantity	Warranty Period (Years)	Proposed Make	Proposed Model/Version	Bidder's Compliance as per Annexure II / III / IV on Letter Head and Datasheets submission	OEM's Compliance as per Annexure II / III / IV on OEM's Letter Head	OEM's Compliance as per PQ_10 /TQ_1
Civil and Non IT for Data Center and ICCC									
1	Water Leak Detection System	Number	To be specified by bidder as per requirement	3	Yes	Yes	Yes	Yes	Yes
2	Rodent Repellent System	Number	To be specified by bidder as per requirement	3	Yes	Yes	Yes	NA	Yes

Note:

1 Bidder is required to mention Make & Model of proposed items wherever in above table is mentioned as "Specify"

2 Bidder is required to submit the supporting documents like bidder's compliance, OEM's compliances and OEM authorization letter (refer PQ_10/TQ_1) wherever its mentioned as "Yes"

ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for Integrated Command Control Centre (ICCC) in Surat [RFP No.: SSCDL-ICCC-RFP-02-2019]



- 3 Bidder is required to specify the quantity as per their proposed solution in the column named "Quantity"
- 4 NA stands for Not Applicable

H3. IT HARDWARE WITH 5 YEARS OF WARRANTY SUPPORT

H3. IT HARDWARE WITH 5 YEARS OF WARRANTY SUPPORT									
#	Description	Unit of Measurement	Quantity	Warranty Period (Years)	Proposed Make	Proposed Model/Version	Bidder's Compliance as per Annexure II / III / IV on Letter Head and Datasheets submission	OEM's Compliance as per Annexure II / III / IV on OEM's Letter Head	OEM's Compliance as per PQ_10 /TQ_1
SITC of IT Hardware Components for ICCC									
1	Indoor Wifi Access Points	Number	30	5	Specify	Specify	Yes	Yes	Yes
2	Video Wall Cubes-70/72" DLP (2 video walls of 14 X 4 matrix)	Number	112	5	Specify	Specify	Yes	Yes	Yes
3	Network based Video Wall Controller (for 60 inputs and 60 outputs)	Number	2	5	Specify	Specify	Yes	Yes	Yes
4	Video Wall Monitoring Software	Number	1	5	Specify	Specify	Yes	Yes	Yes
5	8 ports Unmanaged PoE+ Switch	Number	20	5	Specify	Specify	Yes	Yes	Yes
6	24 ports (1G/1G) Web Managed Switch	Number	10	5	Specify	Specify	Yes	Yes	Yes
7	24 ports (1G/10G) Web Managed Switch	Number	10	5	Specify	Specify	Yes	Yes	Yes

ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for Integrated Command Control Centre (ICCC) in Surat [RFP No.: SSCDL-ICCC-RFP-02-2019]



H3. IT HARDWARE WITH 5 YEARS OF WARRANTY SUPPORT

#	Description	Unit of Measurement	Quantity	Warranty Period (Years)	Proposed Make	Proposed Model/Version	Bidder's Compliance as per Annexure II / III / IV on Letter Head and Datasheets submission	OEM's Compliance as per Annexure II / III / IV on OEM's Letter Head	OEM's Compliance as per PQ_10 /TQ_1
8	48 ports (1G/10G) Web Managed Switch	Number	5	5	Specify	Specify	Yes	Yes	Yes
9	1G SFP LX Transceiver Module for above 24 Port Web Managed Switches	Number	20	5	Specify	Specify	Yes	Yes	Yes
10	10G SFP+ LR Transceiver Module for 24 Port/48 Port Web Managed Switches	Number	30	5	Specify	Specify	Yes	Yes	Yes
SITC of IT Hardware Components for Data Center									
11	DC Core Switch	Number	2	5	Specify	Specify	Yes	Yes	Yes
12	10G DAC (10M Length) for DC Core Switch	Number	12	5	Specify	Specify	Yes	Yes	Yes
13	10G SFP+ LR Transceiver Module for DC Core Switch	Number	40	5	Specify	Specify	Yes	Yes	Yes
14	40G QSFP+ LR4 Transceiver Module for DC Core Switch	Number	22	5	Specify	Specify	Yes	Yes	Yes
15	DC Aggregation/TOR Switch Type 1	Number	6	5	Specify	Specify	Yes	Yes	Yes

ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for Integrated Command Control Centre (ICCC) in Surat
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H3. IT HARDWARE WITH 5 YEARS OF WARRANTY SUPPORT

#	Description	Unit of Measurement	Quantity	Warranty Period (Years)	Proposed Make	Proposed Model/Version	Bidder's Compliance as per Annexure II / III / IV on Letter Head and Datasheets submission	OEM's Compliance as per Annexure II / III / IV on OEM's Letter Head	OEM's Compliance as per PQ_10 /TQ_1
16	40G QSFP+ LR4 Transceiver Module for DC Aggregation/TOR Switch Type 1	Number	12	5	Specify	Specify	Yes	Yes	Yes
17	DC Aggregation/TOR Switch Type 2	Number	4	5	Specify	Specify	Yes	Yes	Yes
18	10G SFP+ LR Transceiver Module for DC Aggregation/TOR Switch Type 2	Number	70	5	Specify	Specify	Yes	Yes	Yes
19	40G QSFP+ LR4 Transceiver Module for DC Aggregation/TOR Switch Type 2	Number	8	5	Specify	Specify	Yes	Yes	Yes
20	DC Application & Delivery Controller with Global Server Load Balancing	Number	2	5	Specify	Specify	Yes	Yes	Yes
21	Wireless LAN controller (Hardware/Software with server) with necessary licenses	Number	1	5	Specify	Specify	Yes	Yes	Yes

ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for Integrated Command Control Centre (ICCC) in Surat
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H3. IT HARDWARE WITH 5 YEARS OF WARRANTY SUPPORT									
#	Description	Unit of Measurement	Quantity	Warranty Period (Years)	Proposed Make	Proposed Model/Version	Bidder's Compliance as per Annexure II / III / IV on Letter Head and Datasheets submission	OEM's Compliance as per Annexure II / III / IV on OEM's Letter Head	OEM's Compliance as per PQ_10 /TQ_1
22	Rack Servers for SMC Own Requirement	Number	10	5	Specify	Specify	Yes	Yes	Yes
23	Storage with 2 no. of SAN Switches & Complete mounting accessories	Number	1	5	Specify	Specify	Yes	Yes	Yes
Civil and Non IT for Data Center and ICCC									
24	PAC system of 20 tonnes each	Number	4	5	Specify	Specify	Yes	Yes	Yes

Note:

- 1 Bidder is required to mention Make & Model of proposed items wherever in above table is mentioned as "Specify"
- 2 Bidder is required to submit the supporting documents like bidder's compliance, OEM's compliances and OEM authorization letter (refer PQ_10/TQ_1) wherever its mentioned as "Yes"
- 3 NA stands for Not Applicable
- 4 Note:
 - 1 Bidder is required to mention Make & Model of proposed items wherever in above table is mentioned as "Specify"
 - 2 Bidder is required to submit the supporting documents like bidder's compliance, OEM's compliances and OEM authorization letter (refer PQ_10/TQ_1) wherever its mentioned as "Yes"
 - 3 NA stands for Not Applicable

**ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for
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H4. BLADE SERVER /RACK SERVER , BLADE CHASIS FOR ICCC REQUIREMENTS (WITH 5 YEARS OF WARRANTY SUPPORT)

H4. BLADE SERVER /RACK SERVER ,BLADE CHASIS FOR ICCC REQUIREMENTS (WITH 5 YEARS OF WARRANTY SUPPORT)										
#	Product Name	Make/OEM	Version/Model	Part Code	Unit of Measurement	Quantity	Warranty (years)	Bidder's Compliance as per Annexure II / III / IV on Letter Head and Datasheets submission	OEM's Compliance as per Annexure II / III / IV on OEM's Letter Head	OEM's Compliance as per PQ_10 /TQ_1
SITC of IT Hardware Components for Data Center										
1	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes
2	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes
3	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes
...	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes

Note:

- 1 Bidder is required to mention Product name, Part No. ,Make & Model & quantity of proposed items wherever in above table is mentioned as "Specify"
- 2 Bidder is required to submit the supporting documents like bidder's compliance, OEM's compliances and OEM authorization letter (refer PQ_10/TQ_1) wherever its mentioned as "Yes"
- 3 Bidder is required to specify the quantity as per their proposed solution in the column named "Quantity"
- 4 NA stands for Not Applicable

**ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for
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S1. ICCC SOFTWARE WITH PERPETUAL LICENSES AND UNLIMITED SENSORS

S1. ICCC SOFTWARE WITH PERPETUAL LICENSES AND UNLIMITED SENSORS										
#	Product Name	Make/OEM	Version/Model	Part Code	Unit of Measurement	Quantity	ATS (years)	Bidder's Compliance as per Annexure II / III / IV on Letter Head and Datasheets submission	OEM's Compliance as per Annexure II / III / IV on OEM's Letter Head	OEM's Compliance as per PQ_10 /TQ_1
ICCC Software with perpetual license and unlimited sensors										
1	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes
2	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes
...	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes

- Note:**
- 1 Bidder is required to mention Product name, Part No. ,Make & Model & quantity of proposed items wherever in above table is mentioned as "Specify"
 - 2 Bidder is required to submit the supporting documents like bidder's compliance, OEM's compliances and OEM authorization letter (refer PQ_10/TQ_1) wherever its mentioned as "Yes"
 - 3 Bidder is required to specify the quantity as per their proposed solution in the column named "Quantity"
 - 4 NA stands for Not Applicable

**ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for
Integrated Command Control Centre (ICCC) in Surat
[RFP No.: SSCDL-ICCC-RFP-02-2019]**



S2. CALL CENTER MANAGEMENT SOFTWARE SOLUTION FOR 50 USER LICENSES

S2. CALL CENTER MANAGEMENT SOFTWARE SOLUTION FOR 50 USER LICENSES										
#	Product Name	Make/OEM	Version/Model	Part Code	Unit of Measurement	Quantity	ATS (years)	Bidder's Compliance as per Annexure II / III / IV on Letter Head and Datasheets submission	OEM's Compliance as per Annexure II / III / IV on OEM's Letter Head	OEM's Compliance as per PQ_10 /TQ_1
Call Center Management Software solution for 50 user licenses										
1	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes
2	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes
...	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes

- Note:**
- Bidder is required to mention Product name, Part No. ,Make & Model & quantity of proposed items wherever in above table is mentioned as "Specify"
 - Bidder is required to submit the supporting documents like bidder's compliance, OEM's compliances and OEM authorization letter (refer PQ_10/TQ_1) wherever its mentioned as "Yes"
 - Bidder is required to specify the quantity as per their proposed solution in the column named "Quantity"
 - NA stands for Not Applicable

ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for Integrated Command Control Centre (ICCC) in Surat [RFP No.: SSCDL-ICCC-RFP-02-2019]



S3. SOFTWARE LICENSES FOR VIRTUALISATION, SERVER OS, DATABASE, ENTERPRISE SECURITY & ANTIVIRUS SOFTWARE

S3. SOFTWARE LICENSES FOR VIRTUALISATION, SERVER OS, DATABASE, ENTERPRISE SECURITY & ANTIVIRUS SOFTWARE										
#	Product Name	Make/OEM	Version/Model	Part Code	Unit of Measurement	Quantity	ATS (years)	Bidder's Compliance as per Annexure II / III / IV on Letter Head and Datasheets submission	OEM's Compliance as per Annexure II / III / IV on OEM's Letter Head	OEM's Compliance as per PQ_10 /TQ_1
Software Licenses for Virtualisation, Server OS, Database, Enterprise Security & Antivirus Software										
1	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes
2	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes
...	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes

Note:

- 1 Bidder is required to mention Product name, Part No. ,Make & Model & quantity of proposed items wherever in above table is mentioned as "Specify"
- 2 Bidder is required to submit the supporting documents like bidder's compliance, OEM's compliances and OEM authorization letter (refer PQ_10/TQ_1) wherever its mentioned as "Yes"
- 3 Bidder is required to specify the quantity as per their proposed solution in the column named "Quantity"
- 4 NA stands for Not Applicable

**ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for
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S4. VM Based Network Access Control Solution

S4. VM Based Network Access Control Solution										
#	Product Name	Make/OEM	Version/Model	Part Code	Unit of Measurement	Quantity	ATS (years)	Bidder's Compliance as per Annexure II / III / IV on Letter Head and Datasheets submission	OEM's Compliance as per Annexure II / III / IV on OEM's Letter Head	OEM's Compliance as per PQ_10 /TQ_1
VM Based Network Access Control Solution										
1	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes
2	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes
...	Specify	Specify	Specify	Specify	Number	Specify	5	Yes	Yes	Yes

- Note:**
- 1 Bidder is required to mention Product name, Part No. ,Make & Model & quantity of proposed items wherever in above table is mentioned as "Specify"
 - 2 Bidder is required to submit the supporting documents like bidder's compliance, OEM's compliances and OEM authorization letter (refer PQ_10/TQ_1) wherever its mentioned as "Yes"
 - 3 Bidder is required to specify the quantity as per their proposed solution in the column named "Quantity"
 - 4 NA stands for Not Applicable

ANNEXURE-V

12.3. Revised Commercial Bid Format

HARDWARE COMPONENTS

H1. IT HARDWARE WITH 3 YEARS OF WARRANTY SUPPORT

H1. IT HARDWARE WITH 3 YEARS OF WARRANTY SUPPORT													
#	Description	Unit of Measurement	Qty	Unit Rate (w/o GST) in INR	Total Capex w/o GST in INR	Applicable GST	Total Capex With GST in INR	Yearly AMC Rate in INR	Total AMC w/o GST in INR for 4th & 5th Year	Applicable GST (G2)%	Total AMC With GST in INR	Total Without GST in INR	Total With GST in INR
			A	B	C=A*B	G1%	D=C*(G1+100)%	E	F=A*E*2	G2%	H =F*(100+G2)%	I = C + F	J = D + H
SITC of IT Hardware Components for ICCC													
1	Desktop PC	Number	75										
2	Workstations for ICCC Operators	Number	100										
3	49" Curved Monitor for ICCC Operators	Number	100										
4	Monochrome Printer	Number	20										
5	Multi Function Printer - 1	Number	5										
6	Multi Function	Number	2										

ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for Integrated Command Control Centre (ICCC) in Surat
[RFP No.: SSCDL-ICCC-RFP-02-2019]



H1. IT HARDWARE WITH 3 YEARS OF WARRANTY SUPPORT

#	Description	Unit of Measurement	Qty	Unit Rate (w/o GST) in INR	Total Capex w/o GST in INR	Applicable GST	Total Capex With GST in INR	Yearly AMC Rate in INR	Total AMC w/o GST in INR for 4th & 5th Year	Applicable GST (G2)%	Total AMC With GST in INR	Total Without GST in INR	Total With GST in INR
			A	B	C=A*B	G1%	D=C*(G1+100)%	E	F = A*E*2	G2%	H = F*(100+G2)%	I = C + F	J = D + H
	Printer -2 (Heavy Duty)												
7	Colour Laser Printer	Number	1										
8	Projector-1 (6000 lumens)	Number	2										
9	Projector-2 (3000 lumens)	Number	1										
10	Projector Screen 1 (200 Inch)	Number	2										
11	Projector Screen 2 (100 Inch)	Number	1										
12	55" LED Display Screen	Number	15										
13	Video Conference System	Number	1										
Civil and Non IT for Data Center and ICCC													
14	42U Rack	Number	15										
15	IP KVM Switch	Number	1										

ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for Integrated Command Control Centre (ICCC) in Surat
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H1. IT HARDWARE WITH 3 YEARS OF WARRANTY SUPPORT

#	Description	Unit of Measurement	Qty	Unit Rate (w/o GST) in INR	Total Capex w/o GST in INR	Applicable GST	Total Capex With GST in INR	Yearly AMC Rate in INR	Total AMC w/o GST in INR for 4th & 5th Year	Applicable GST (G2)%	Total AMC With GST in INR	Total Without GST in INR	Total With GST in INR
			A	B	C=A*B	G1%	D=C*(G1+100)%	E	F = A*E*2	G2%	H = F*(100+G2)%	I = C + F	J = D + H
16	Access Control System	Number	1										
17	Fire Detection and Alarm System	Number	1										
18	Fire Suppression System	Number	1										
19	Data Center Management System	Number	1										
20	Aspirating Smoke Detector System	Number	1										
Total (INR)-Without GST													
Total (INR)-With GST													

H2. IT HARDWARE WITH 3 YEARS OF WARRANTY SUPPORT (Bidder to specify the Quantity)

H2. IT HARDWARE WITH 3 YEARS OF WARRANTY SUPPORT (Bidder to specify the Quantity)													
#	Description	Unit of Measurement	Qty	Unit Rate (w/o GST) in INR	Total Capex w/o GST in INR	Applicable GST	Total Capex With GST in INR	Yearly AMC Rate in INR	Total AMC w/o GST in INR for 4th & 5th Year	Applicable GST (G2)%	Total AMC With GST in INR	Total Without GST in INR	Total With GST in INR
			A	B	$C=A \times B$	G1%	$D=C \times (G1+100) \%$	E	F = A * E * 2	G2%	$H = F \times (100+G2) \%$	$I = C + F$	$J = D + H$
Civil and Non IT for Data Center and ICCC													
1	Water Leak Detection System	Number	To be specified by bidder as per requirement										
2	Rodent Repellent System	Number	To be specified by bidder as per requirement										
Total (INR)-Without GST													
Total (INR)-With GST													

**ADDENDUM & CORRIGENDUM-1: RFP for Selection of Implementing Agency for
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H3. IT HARDWARE WITH 5 YEARS OF WARRANTY SUPPORT

H3. IT HARDWARE WITH 5 YEARS OF WARRANTY SUPPORT							
#	Description	Unit of Measurement	Qty	Unit Rate (w/o GST) in INR	Total w/o GST in INR	Applicable GST	Total With GST in INR
			A	B	C=A*B	G1%	D=C*(G1+100)%
SITC of IT Hardware Components for ICCC							
1	Indoor Wifi Access Points	Number	30				
2	Video Wall Cubes- 70/72" DLP (2 video walls of 14 X 4 matrix)	Number	112				
3	Network based Video Wall Controller (for 60 inputs and 60 outputs)	Number	2				
4	Video Wall Monitoring Software	Number	1				
5	8 ports Unmanaged PoE+ Switch	Number	20				
6	24 ports (1G/1G) Web Managed Switch	Number	10				
7	24 ports (1G/10G) Web Managed Switch	Number	10				
8	48 ports (1G/10G) Web Managed Switch	Number	5				
9	1G SFP LX Transceiver Module for above 24 Port Web Managed Switches	Number	20				
10	10G SFP+ LR Transceiver Module for 24 Port/48 Port Web Managed Switches	Number	30				
SITC of IT Hardware Components for Data Center							
11	DC Core Switch	Number	2				
12	10G DAC (10M Length) for DC Core Switch	Number	12				
13	10G SFP+ LR Transceiver Module for DC Core Switch	Number	40				
14	40G QSFP+ LR4 Transceiver Module for DC Core Switch	Number	22				
15	DC Aggregation/TOR Switch Type 1	Number	6				
16	40G QSFP+ LR4 Transceiver Module for DC Aggregation/TOR Switch Type 1	Number	12				
17	DC Aggregation/TOR Switch Type 2	Number	4				
18	10G SFP+ LR Transceiver Module for DC Aggregation/TOR Switch Type 2	Number	70				
19	40G QSFP+ LR4 Transceiver Module for DC Aggregation/TOR Switch Type 2	Number	8				
20	DC Application & Delivery Controller with Global Server Load Balancing	Number	2				
21	Wireless LAN controller (Hardware/Software with server) with necessary licenses	Number	1				
22	Rack Servers for SMC Own Requirement	Number	10				

Sign
Stamp

H3. IT HARDWARE WITH 5 YEARS OF WARRANTY SUPPORT

#	Description	Unit of Measurement	Qty	Unit Rate (w/o GST) in INR	Total w/o GST in INR	Applicable GST	Total With GST in INR
			A	B	C=A*B	G1%	D=C*(G1+100)%
23	Storage with 2 no. of SAN Switches & Complete mounting accessories	Number	1				
Civil and Non IT for Data Center and ICCC							
24	PAC system of 20 tonnes each	Number	4				
Total (INR)- Without GST							
Total (INR)- With GST							

H4. BLADE SERVER /RACK SERVER ,BLADE CHASIS FOR ICCC REQUIREMENTS (WITH 5 YEARS OF WARRANTY SUPPORT)

H4. BLADE SERVER /RACK SERVER ,BLADE CHASIS FOR ICCC REQUIREMENTS (WITH 5 YEARS OF WARRANTY SUPPORT)

#	Product Name	Make/OEM	Version/Model	Part Code	Unit of Measurement	Qty	Unit License Cost (w/o GST) in INR	Total w/o GST in INR	Applicable GST	Total With GST in INR
	A	B	C	D	E	F	H	I=F*H	G1%	J=I*(G1+100)%
SITC of IT Hardware Components for Data Center										
1					Number					
2					Number					
3					Number					
...					Number					
Total (INR)- Without GST										
Total (INR)- With GST										

Note:

- The bidder can propose servers of same or different configuration as per their sizing. Details wrt proposed quantity for each server with different configuration to be specified above.
The detailed configuration for each server to be provided as per Annexure III, Section 15.35
- It is mandatory to provide the details pertaining to OEM, Product Name, Version, Part Code and exact Quantity for all components.
- The exact copy of the above table without prices must be submitted as per "PQ_11: Unpriced Bill of Quantity"

SUMMARY OF CAPEX - HARDWARE

SUMMARY OF CAPEX		
1	Total (INR)- Without GST ($A_1=H_1+H_2+H_3+H_4$)	
2	Total (INR)- With GST ($A_1=H_1+H_2+H_3+H_4$)	

SUMMARY OF OPEX- HARDWARE

SUMMARY OF OPEX		
1	Total (INR)- Without GST ($B_1=H_1+H_2$)	
2	Total (INR)- With GST ($B_1=H_1+H_2$)	



SOFTWARE COMPONENTS

S1. ICCC SOFTWARE WITH PERPETUAL LICENSES AND UNLIMITED SENSORS

S1. ICCC SOFTWARE WITH PERPETUAL LICENSES AND UNLIMITED SENSORS																
#	Product Name	Make/OEM	Version/Model	Part Code	Unit of Measurement	Qty	Unit License Cost (w/o GST) in INR	Total w/o GST in INR	Applicable GST	Total With GST in INR	Yearly ATS Rate (w/o GST) in INR	Total ATS w/o GST in INR for 5 Years	Applicable GST on ATS (G2)%	Total ATS with GST in INR	Total Cost without GST	Total Cost with GST
A	B	C	D	E	F	H	I=F*H	G1%	J=I*(G1+100)%	K	L =F*K*5	G2%	M =L*(100+G2)%	N=I+L	O=J+M	
ICCC Software with perpetual license and unlimited sensors																
1					Number											
2					Number											
...					Number											
	Total (INR)-Without GST															
	Total (INR)-With GST															

Note:

- 1 All software license components related to ICCC application required to meet the scope of RFP must be enlisted above.
- 2 It is mandatory to provide the details pertaining to OEM, Product Name, Version, Part Code and exact Quantity for all license components.
- 3 The exact copy of the above table without prices must be submitted as per "PQ_11: Unpriced Bill of Quantity"



S2. CALL CENTER MANAGEMENT SOFTWARE SOLUTION FOR 50 USER LICENSES

S2. CALL CENTER MANAGEMENT SOFTWARE SOLUTION FOR 50 USER LICENSES																
#	Product Name	Make/OEM	Version/Model	Part Code	Unit of Measurement	Qty	Unit License Cost (w/o GST) in INR	Total w/o GST in INR	Applicable GST	Total With GST in INR	Yearly ATS Rate (w/o GST) in INR	Total ATS w/o GST in INR for 5 Years	Applicable GST on ATS (G2)%	Total ATS with GST in INR	Total Cost without GST	Total Cost with GST
A	B	C	D	E	F	H	I=F*H	G1%	J=I*(G1+100)%	K	L=F*K*5	G2%	M=L*(100+G2)%	N=I+L	O=J+M	
Call Center Management Software solution for 50 user licenses																
1					Number											
2					Number											
...					Number											
	Total (INR)-Without GST															
	Total (INR)-With GST															

Note:

All software license components related to Software Licenses for Call Center Management Software solution for 50 users to meet the scope of RFP must be enlisted above.

- It is mandatory to provide the details pertaining to OEM, Product Name, Version, Part Code and exact Quantity for all license components.
- The exact copy of the above table without prices must be submitted as per "PQ_11: Unpriced Bill of Quantity"

S3. SOFTWARE LICENSES FOR VIRTUALISATION, SERVER OS, DATABASE, ENTERPRISE SECURITY & ANTIVIRUS SOFTWARE

S3. SOFTWARE LICENSES FOR VIRTUALISATION, SERVER OS, DATABASE, ENTERPRISE SECURITY & ANTIVIRUS SOFTWARE																
#	Prod uct Name	Make/O EM	Version/M odel	Par t Co de	Unit of Measure ment	Quant ity	Unit Licen se Cost (w/o GST) in INR	Tota l w/o GST in INR	Applica ble GST	Total With GST in INR	Year ly ATS Rate (w/o GST) in INR	Total ATS w/o GST in INR for 5 Year s	Applica ble GST on ATS (G2)%	Total ATS with GST in INR	Total Cost witho ut GST	Total Cost with GST
A	B	C	D	E	F	H	I=F* H	G1%	J=I*(G1+1 00)%	K	L =F*K *5	G2%	M=L* (100+G 2)%	N=I+ L	O=J+ M	
Software Licenses for Virtualisation, Server OS, Database, Enterprise Security & Antivirus Software																
1					Number											
2					Number											
...					Number											
Total (INR)- Without GST																
Total (INR)- With GST																

- Note:**
1. All software license components related to Software Licenses for Virtualisation, Server OS, Database, Enterprise Security & Antivirus Software, etc. required for physical and/or virtualised environment to meet the scope of RFP must be enlisted above.
 2. It is mandatory to provide the details pertaining to OEM, Product Name, Version, Part Code and exact Quantity for all license components.
 3. The exact copy of the above table without prices must be submitted as per "PQ_11: Unpriced Bill of Quantity"



S4. VM Based Network Access Control Solution

S4. VM Based Network Access Control Solution

#	Product Name	Make/OEM	Version/Model	Part Code	Unit of Measurement	Quantity	Unit License Cost (w/o GST) in INR	Total w/o GST in INR	Applicable GST	Total With GST in INR	Yearly ATS Rate (w/o GST) in INR	Total ATS w/o GST in INR for 5 Years	Applicable GST on ATS (G2)%	Total ATS with GST in INR	Total Cost without GST	Total Cost with GST
A	B	C	D	E	F	H	I=F*H	G1%	J=I*(G1+100)%	K	L=F*K*5	G2%	M=L*(100+G2)%	N=I+L	O=J+M	
S4. VM Based Network Access Control Solution																
1					Number											
2					Number											
...					Number											
	Total (INR)-Without GST															
	Total (INR)-With GST															

Note:

All software license components related to Software Licenses for VM based Network Access Control Solution is required for physical and/or virtualised environment to meet the scope of RFP must be enlisted above.

It is mandatory to provide the details pertaining to OEM, Product Name, Version, Part Code and exact Quantity for all license components.

The exact copy of the above table without prices must be submitted as per "PQ_11: Unpriced Bill of Quantity"

S5. SI'S SUPPORT COST

S5. SI's Support Cost						
#	Description	Unit Rate / Year	Total w/o GST for 5 Years	Applicable GST (G)%	Total GST	Total With GST for 5 Years
		(w/o GST) (INR) (A)	B=A*5		C =B*G%	D=B+C
			(INR)		(INR)	(INR)
1	SI's Support cost including onsite manpower deployment					
Total (INR)- Without GST						
Total (INR)- With GST						

SUMMARY OF CAPEX-SOFTWARE

SUMMARY OF CAPEX		
1	Total (INR)- Without GST (A2= S1+S2+S3+S4)	
2	Total (INR)- With GST (A2= S1+S2+S3+S4)	

SUMMARY OF OPEX-SOFTWARE

SUMMARY OF OPEX		
1	Total (INR)- Without GST (B2=S1+S2+S3+S4+S5)	
2	Total (INR)- With GST (B2=S1+S2+S3+S4+S5)	

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ONE TIME COST

O1. SOFTWARE /HARDWARE ONE TIME COST

O1. SOFTWARE /HARDWARE ONE TIME COST							
#	Description	Unit of Measurement	Quantity	Unit Rate (w/o GST) in INR	Total w/o GST in INR	Applicable GST	Total With GST in INR
			A	B	C=A*B	G1%	D=C*(G1+100)%
SITC of Software Components for Data Center							
1	ICCC Software integration & implementation Cost per Use Case	Use Case	50				
2	MS Office Business 2019 (standard one-time purchase) License	Number	100				
Civil and Non IT for Data Center and ICCC							
3	Civil Work for DC (Raised Floor, False Ceiling, Ducting, Access Doors, Painting, Partitioning etc)	sq ft	1419				
Total (INR)- Without GST							
Total (INR)- With GST							

Please note the below summary tables will not be the part of price bid. These summary tables will be calculated manually by SSCDL/SMC as per formula mentioned below. Bidders are required to take note of the same,

SUMMARY OF CAPEX

SUMMARY OF CAPEX		
1	Total (INR)- Without GST ($A_3=A_1+A_2+O_1$)	
2	Total (INR)- With GST ($A_3=A_1+A_2+O_1$)	

SUMMARY OF OPEX

SUMMARY OF OPEX		
1	Total (INR)- Without GST ($B_3=B_1+B_2$)	
2	Total (INR)- With GST ($B_3=B_1+B_2$)	

TOTAL PROJECT COST

TOTAL PROJECT COST		
1	Total (INR)- Without GST (A_3+B_3)	
2	Total (INR)- With GST (A_3+B_3)	

ANNEXURE-VI

[This section overrides the original Annexure-III of the RFP document]

15. Annexure III – Technical requirements for ICT Components

1. The bidder can quote for each item meeting or exceeding the below mentioned minimum specification. Separate sheet needs to be attached if required.
2. The specification mentioned below are minimum specification. The bidder can quote the products equivalent or higher depending upon the sizing for the entire solution.
3. The technical spec sheet and the product brochure of the product offered should also be submitted along with technical bid.
4. In case the space provided is not sufficient then a separate paper as per the format below can be annexed to the bid. The same must be duly signed and stamped.

15.12 Projector-1 (6000 lumens)

#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks, if any
1.	Technology	High-aperture 3-chip, 3LCD technology		
2.	Projection Method	Ceiling Mount		
3.	Color light output	6,000 lumens or more		
4.	White light output	6,000 lumens or more		
5.	Contrast Ratio	50,000:1 (Full White 6500 lm / Full Black 0 lm)		
6.	Size (projected distance)	50 inches to 300 inches		
7.	Color Reproduction	Up to 1 billion colors		
8.	Keystone Correction	Vertical: ±45 degrees; horizontal: ±30 degrees		
9.	Projection Lens Type	Powered focus/zoom		
10.	Lens Focal Length	24.0 mm - 38.2 mm		
11.	Lens Zoom Ratio	Optical zoom 1 – 1.6x		
12.	Connectivity	HDBaseT x 1 DVI-D x1 HDMI x 1 Computer: D-sub 15 pin x 1 Component Video: BNC x 1 Audio-in: Mini stereo x 3 Audio Out x 1 Network: RJ-45 x 1, 100 Mbps Serial: RS-232c Hardwire remote jack x 1 Monitor Out: D-sub 15 pin x 1, Wireless Connectivity		
13.	Input Signals	NTSC/NTSC4.43/PAL/M-PAL/N-AL/PAL60/SECAM/480i/576i/480p/576p/720p/1080i/1080p		
14.	Resolution	1080p, 16:10		
15.	Lamp Life	Approx. 3,000 Hours durability in Normal mode & 4,000 Hours durability in Eco mode		
16.	Aspect ratio supports	4:3, 16:9, 16:10		
17.	Security Features	Security cable hole, lens lock, Kensington lock provision		
18.	Advance Features	Simultaneously project side-by-side from different sources with Split Screen Web-based remote management – control and monitor projector status via a Web browser		

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#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks, if any
		Multi-PC Projection – connect up to 50 Windows®, Mac®, iOS® or Android™ devices and display up to four screens simultaneously over the network (controlled via the Moderator4 function from your PC) advanced built-in Edge Blending, image warping and curved-surface correction technologies for a variety of applications		
19.	Mounting	Ceiling mount with fixed structure, with all accessories including of 30 mt cables		
20.	Other Features	<ul style="list-style-type: none"> Fully Functional remote with battery Power, source search selection, computer, video, A/V Mute, freeze, user ID, auto, aspect, color mode, number, page up and down, E-zoom, volume, help, menu, enter, esc and pointer functions 		
21.	Accessories	carry bag, power cable, VGA/HDMI cable, remote control, User's manual (English)		
22.	Lamp warranty	Please specify		
23.	Projector Warranty	5 years comprehensive onsite back-to-back OEM warranty including service and parts		
24.	Specify the proposed Make			
25.	Specify the proposed Model No			

15.16 55" LED Display Screen

#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks, if any
1.	Display Size	55" inch diagonal		
2.	Technology	LED Backlit		
3.	Resolution pixel	(1920 x 1080) Full HD		
4.	Aspect Ratio	16:9		
5.	Brightness	350 nits or more		
6.	Native Contrast Ratio	1000:1		
7.	Viewing Angle	178:178		
8.	Response time	8 ms or less		
9.	Inbuilt Speakers	Yes		
10.	VGA Port	Optional		
11.	HDMI	Yes, minimum 2 quantities		
12.	USB	Yes		
13.	DVI-D	Optional		
14.	Display Port	Optional		
15.	Power Supply	230V AC, 50 Hz		
16.	Mounting	Wall Mount		
17.	Certification	BIS		
18.	Should able to sync with centralized content management, Video wall , in premise presentation if necessary			
19.	Specify the proposed Make			
20.	Specify the proposed Model No			

15.22 DC Core Switch

#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks, if any
1.	Switching Capacity	<ul style="list-style-type: none"> Minimum 5 Tbps or Higher Switching Capacity 		
2.	Slots	<ul style="list-style-type: none"> Minimum 4 Interface Line Card or Module Slots (other than management module/slot) Switch should support Interface Line cards/Modules of 1G, 10G, 40G and 100 GE ports 		
3.	Ports	<ul style="list-style-type: none"> Min. 24 x 10G Base-T RJ-45 ports Min. 48 x 10G SFP+ ports with SR/LR/ZR ports Min. 24 x 40G QSFP+ SR4/LR4 ports Minimum 1 Slot must be empty after configuring above ports HA Port. 		
4.	High Availability/Architecture	<ul style="list-style-type: none"> Switch should have In-Service Software Upgrade (ISSU) and patching without interrupting traffic/operations. Switch needs to be provided with redundant supervisor/Fabric modules, power supplies, and fans trays from day 1. The switch should provide nonblocking, lossless CLOS architecture with VOQs and large buffers with the flexibility and scalability for future growth. The switch should support modular operating system which brings native high stability, independent process monitoring, and restart through the modular design and multiple processes and support enhanced serviceability functions The switch should support virtualization of a physical switch into multiple logical devices, with each logical switch having its own processes, configuration, and administration. 		
5.	Backplane	<ul style="list-style-type: none"> Properly sized Switching fabric capacity (as per network configuration to meet 		

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		performance requirements of wire speed switching for the connected devices)		
6.	Layer-2 Features	• Switch should Support IEEE 802.1Q VLAN encapsulation & must have feature to configure minimum 4090 VLAN IDs.		
		• The switch must support dynamic VLAN Registration or equivalent and Dynamic Trunking protocol or equivalent		
		• Switch should Support Ether Channelling - IEEE 802.3ad or port aggregation technologies (support of LACP)		
		• Switch should Support IEEE 802.3x flow control for full-duplex mode ports.		
		• Switch should Support IEEE 802.1s/w Rapid Spanning Tree Protocol (RSTP) and Multiple Spanning Tree Protocol (MSTP)		
		• Support for Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors.		
		• IGMP snooping v1, v2 and v3		
		• Should support 64k or more ARP/MAC Address table		
		• Should support Loop protection and Loop detection.		
7.	Layer-3 Features	• Must have Static, OSPFv3, BGP4, RIPv1, RIPv2 and Policy based routing protocols with IPV4 & IPV6 supported.		
		• Should support Dual IP stack which Maintains separate stacks for IPV4 and IPV6		
		• Should support Virtual Router Redundancy Protocol (VRRP).		
		• Should support Equal-Cost Multipath (ECMP) which provides equal-cost links in a routing environment to increase link redundancy.		
		• Support 802.1D, 802.1S, 802.1w, Rate limiting.		
		• Inter-VLAN IP routing for full Layer 3 routing between 2 or more VLANs.		

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		<ul style="list-style-type: none"> Inbuilt Feature of Dynamic Host Configuration Protocol (DHCP) Sever which simplifies the management of large IP networks and supports client and server system. 		
		<ul style="list-style-type: none"> L2/L3 VXLAN and EVPN support for virtualized environments 		
8.	Network Security & QoS	<ul style="list-style-type: none"> Standard 802.1p CoS and DSCP. 		
		<ul style="list-style-type: none"> Must have Network traffic filtering and network control using MAC and IP Binding based ACLs 		
		<ul style="list-style-type: none"> Support for Asynchronous data flows upstream and downstream from the end station or on the uplink using ingress policing and egress shaping. 		
		<ul style="list-style-type: none"> Should support TACACS+ and RADIUS authentication 		
		<ul style="list-style-type: none"> Support for Automatic Quality of Service for easy configuration of QoS features for critical applications. <p>The above specifications stands deleted</p>		
		<ul style="list-style-type: none"> Broadcast storm control to help eliminate network traffic storms 		
		<ul style="list-style-type: none"> IEEE 802.1x to allow dynamic, port-based security, providing user authentication. 		
		<ul style="list-style-type: none"> VLAN ACLs (VACLs) on all VLANs to prevent unauthorized data flows from being bridged within VLANs. Port-based ACLs (PACLs) for Layer 2 interfaces to allow application of security policies on individual switch ports 		
		<ul style="list-style-type: none"> Standard and Extended IP security router ACLs to define security policies on routed interfaces for control- and data-plane traffic. 		
		<ul style="list-style-type: none"> Unicast MAC filtering to prevent the forwarding of any type of packet with a matching MAC address. 		
<ul style="list-style-type: none"> Unknown unicast and multicast port blocking to allow tight control by filtering packets that the switch has not already learned how to forward. 				

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		<ul style="list-style-type: none"> Support for SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions. 		
		<ul style="list-style-type: none"> Private VLAN to provide security and isolation between switch ports, helping ensure that users cannot snoop on other users' traffic. 		
		<ul style="list-style-type: none"> MAC address management to allow administrators for analysis of users added to or removed from the network. 		
		<ul style="list-style-type: none"> Multilevel security on console access to prevent unauthorized users from altering the switch configuration. 		
		<ul style="list-style-type: none"> IPv6 Host, Management, multicast and QoS. 		
9.	Management	<ul style="list-style-type: none"> Easy-to-use, Web-based management interface through either GUI based software utility or using standard web browser interface which Supports configuration, system dashboard, system maintenance, and monitoring and for easier software/firmware upgrade through network using TFTP/HTTP etc. 		
		<ul style="list-style-type: none"> Should have accessibility using Telnet, SSH, Console access. 		
		<ul style="list-style-type: none"> Intuitive web interface to upload/download Configurations to and from the switch. 		
		<ul style="list-style-type: none"> Provision of Dual flash images to provide independent primary and secondary operating system files for backup while upgrading. 		
		<ul style="list-style-type: none"> Availability of Port statistics through industry-standard RMON 		
		<ul style="list-style-type: none"> SNMPv1, SNMPv2 and SNMPv3. 		
10.	Networking Passive Components	<ul style="list-style-type: none"> All types Fiber/DAC/Cat-6/Cat-7 Patch Cords of various lengths required to Interconnect Switch-Switch, Switch-Server, Switch-LIU must be provided/supplied from day one. 		
11.	Warranty:	<ul style="list-style-type: none"> 5 Years Direct OEM Comprehensive Warranty with parts, Support. 		
12.	Chassis:	<ul style="list-style-type: none"> Device must have 4 x AC power input supply and all 4 must be included with 		

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		switch from day 1 with necessary switch mounting kit.		
13.	Specify the proposed Make			
14.	Specify the proposed Model No			

15.25 10G SFP+ LR Transceiver Module for DC Core Switch

#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks, if any
1.	Ports	10G BASE-LR port; Duplex: full only		
2.	Warranty	5 Years comprehensive warranty		
3.	Specify the proposed Make			
4.	Specify the proposed Model No			

15.27.40G QSFP+ LR4 Transceiver Module for DC Core Switch

#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks, if any
1.	Ports	40G QSFP+ BASE- LR4 port		
2.	Warranty	5 Years comprehensive warranty.		
3.	Specify the proposed Make			
4.	Specify the proposed Model No			

15.28 DC TOR / DC Aggregation Switch Type-1

#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks, if any
1.	Switching Capacity	<ul style="list-style-type: none"> Switching Capacity of minimum 1440 Gbps or Higher 		
2.	Ports	<ul style="list-style-type: none"> Should have minimum 48 X 10G BASE-T RJ-45 ports. Should have minimum 4 X 40G BASE-QSFP+ LR4/SR4 ports 		
3.	Switch type	<ul style="list-style-type: none"> Fully Managed & Advanced Layer 3 Core/Data Centre Switch & Non Chassis Based 		
4.	Backplane	<ul style="list-style-type: none"> Properly sized Switching fabric capacity (as per network configuration to meet performance requirements of wire speed switching for the connected devices) 		
5.	Layer-2 Features	<ul style="list-style-type: none"> Switch should Support IEEE 802.1Q VLAN encapsulation & must have feature to configure minimum 4090 VLAN IDs. The switch must support dynamic VLAN Registration or equivalent and Dynamic Trunking protocol or equivalent 		

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		<ul style="list-style-type: none"> Switch should Support Ether Channelling - IEEE 802.3ad or port aggregation technologies (support of LACP) 		
		<ul style="list-style-type: none"> Switch should Support IEEE 802.3x flow control for full-duplex mode ports. 		
		<ul style="list-style-type: none"> Switch should Support IEEE 802.1s/w Rapid Spanning Tree Protocol (RSTP) and Multiple Spanning Tree Protocol (MSTP) 		
		<ul style="list-style-type: none"> Support for Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors. 		
		<ul style="list-style-type: none"> IGMP snooping v1, v2 and v3 		
		<ul style="list-style-type: none"> Should support 32k or more ARP/MAC Address table 		
		<ul style="list-style-type: none"> Should support Loop protection and Loop detection. 		
6.	Layer-3 Features	<ul style="list-style-type: none"> Must have Static, OSPFv3, BGP4, RIPv1, RIPv2 and Policy based routing protocols with IPV4 & IPv6 supported. 		
		<ul style="list-style-type: none"> Should support Dual IP stack which Maintains separate stacks for IPv4 and IPv6 		
		<ul style="list-style-type: none"> Should support Virtual Router Redundancy Protocol (VRRP). 		
		<ul style="list-style-type: none"> Should support Equal-Cost Multipath (ECMP) which provides equal-cost links in a routing environment to increase link redundancy. 		
		<ul style="list-style-type: none"> Support 802.1D, 802.1S, 802.1w, Rate limiting. 		
		<ul style="list-style-type: none"> Inter-VLAN IP routing for full Layer 3 routing between 2 or more VLANs. 		
		<ul style="list-style-type: none"> Inbuilt Feature of Dynamic Host Configuration Protocol (DHCP) Server which simplifies the management of large IP networks and supports client and server system. 		
		<ul style="list-style-type: none"> L2/L3 VXLAN and EVPN support for virtualized environments 		
7.	Network Security & QoS	<ul style="list-style-type: none"> Standard 802.1p CoS and DSCP. 		
		<ul style="list-style-type: none"> Must have Network traffic filtering and network control using MAC and IP Binding based ACLs 		
		<ul style="list-style-type: none"> Support for Asynchronous data flows upstream and downstream from the end 		

	station or on the uplink using ingress policing and egress shaping.		
	<ul style="list-style-type: none"> Should support TACACS+ and RADIUS authentication 		
	<ul style="list-style-type: none"> Support for Automatic Quality of Service for easy configuration of QoS features for critical applications. <p>The above specifications stands deleted</p>		
	<ul style="list-style-type: none"> Broadcast storm control to help eliminate network traffic storms 		
	<ul style="list-style-type: none"> IEEE 802.1x to allow dynamic, port-based security, providing user authentication. 		
	<ul style="list-style-type: none"> VLAN ACLs (VACLs) on all VLANs to prevent unauthorized data flows from being bridged within VLANs. Port-based ACLs (PACLs) for Layer 2 interfaces to allow application of security policies on individual switch ports 		
	<ul style="list-style-type: none"> Standard and Extended IP security router ACLs to define security policies on routed interfaces for control- and data-plane traffic. 		
	<ul style="list-style-type: none"> Unicast MAC filtering to prevent the forwarding of any type of packet with a matching MAC address. 		
	<ul style="list-style-type: none"> Unknown unicast and multicast port blocking to allow tight control by filtering packets that the switch has not already learned how to forward. 		
	<ul style="list-style-type: none"> Support for SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions. 		
	<ul style="list-style-type: none"> Private VLAN to provide security and isolation between switch ports, helping ensure that users cannot snoop on other users' traffic. 		
	<ul style="list-style-type: none"> MAC address management to allow administrators for analysis of users added to or removed from the network. 		
	<ul style="list-style-type: none"> Multilevel security on console access to prevent unauthorized users from altering the switch configuration. 		
	<ul style="list-style-type: none"> IPv6 Host, Management, multicast and QoS. 		

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8.	Management	<ul style="list-style-type: none"> • Easy-to-use, Web-based management interface through either GUI based software utility or using standard web browser interface which Supports configuration, system dashboard, system maintenance, and monitoring and for easier software/firmware upgrade through network using TFTP/HTTP etc. 		
		<ul style="list-style-type: none"> • Should have accessibility using Telnet, SSH, Console access. 		
		<ul style="list-style-type: none"> • Intuitive web interface to upload/download Configurations to and from the switch. 		
		<ul style="list-style-type: none"> • Provision of Dual flash images to provide independent primary and secondary operating system files for backup while upgrading. 		
		<ul style="list-style-type: none"> • Availability of Port statistics through industry-standard RMON 		
		<ul style="list-style-type: none"> • SNMPv1, SNMPv2 and SNMPv3. 		
9.	Networking Passive Components	<ul style="list-style-type: none"> • All types Fiber/DAC/Cat-6/Cat-7 Patch Cords of various lengths required to Interconnect Switch-Switch, Switch-Server, Switch-LIU must be provided/supplied from day one. 		
10.	Warranty:	<ul style="list-style-type: none"> • 5 Years back to back OEM Warranty with parts 		
11.	Chassis:	<ul style="list-style-type: none"> • Device must have 1+1 redundant AC power input supply and must be included with switch from day 1 with necessary mounting kit. 		
12.	Specify the proposed Make			
13.	Specify the proposed Model No			

15.29 DC TOR / DC Aggregation Switch Type-2

#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks, if any
1.	Switching Capacity	<ul style="list-style-type: none"> Switching Capacity of minimum 1440 Gbps or Higher 		
2.	Ports	<ul style="list-style-type: none"> Should have minimum 24 X 10G BASE-T RJ-45 ports and Should have minimum 24 X 10G BASE-SFP+ SR/LR ports. Should have minimum 4 X 40G BASE-QSFP+ LR4/SR4 ports 		
3.	Switch type	<ul style="list-style-type: none"> Fully Managed & Advanced Layer 3 Core/Data Centre Switch & Non Chassis Based 		
4.	Backplane	<ul style="list-style-type: none"> Properly sized Switching fabric capacity (as per network configuration to meet performance requirements of wire speed switching for the connected devices) 		
5.	Layer-2 Features	<ul style="list-style-type: none"> Switch should Support IEEE 802.1Q VLAN encapsulation & must have feature to configure minimum 4090 VLAN IDs. 		
		<ul style="list-style-type: none"> The switch must support dynamic VLAN Registration or equivalent and Dynamic Trunking protocol or equivalent 		
		<ul style="list-style-type: none"> Switch should Support Ether Channelling - IEEE 802.3ad or port aggregation technologies (support of LACP) 		
		<ul style="list-style-type: none"> Switch should Support IEEE 802.3x flow control for full-duplex mode ports. 		
		<ul style="list-style-type: none"> Switch should Support IEEE 802.1s/w Rapid Spanning Tree Protocol (RSTP) and Multiple Spanning Tree Protocol (MSTP) 		
		<ul style="list-style-type: none"> Support for Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors. 		
		<ul style="list-style-type: none"> IGMP snooping v1, v2 and v3 		
		<ul style="list-style-type: none"> Should support 32k or more ARP/MAC Address table 		
		<ul style="list-style-type: none"> Should support Loop protection and Loop detection. 		
6.	Layer-3 Features	<ul style="list-style-type: none"> Must have Static, OSPFv3, BGP4, RIPv1, RIPv2 and Policy based routing protocols with IPV4 & IPV6 supported. 		

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		<ul style="list-style-type: none"> Should support Dual IP stack which Maintains separate stacks for IPv4 and IPv6 		
		<ul style="list-style-type: none"> Should support Virtual Router Redundancy Protocol (VRRP). 		
		<ul style="list-style-type: none"> Should support Equal-Cost Multipath (ECMP) which provides equal-cost links in a routing environment to increase link redundancy. 		
		<ul style="list-style-type: none"> Support 802.1D, 802.1S, 802.1w, Rate limiting. 		
		<ul style="list-style-type: none"> Inter-VLAN IP routing for full Layer 3 routing between 2 or more VLANs. 		
		<ul style="list-style-type: none"> Inbuilt Feature of Dynamic Host Configuration Protocol (DHCP) Server which simplifies the management of large IP networks and supports client and server system. 		
		<ul style="list-style-type: none"> L2/L3 VXLAN and EVPN support for virtualized environments 		
7.	Network Security & QoS	<ul style="list-style-type: none"> Standard 802.1p CoS and DSCP. 		
		<ul style="list-style-type: none"> Must have Network traffic filtering and network control using MAC and IP Binding based ACLs 		
		<ul style="list-style-type: none"> Support for Asynchronous data flows upstream and downstream from the end station or on the uplink using ingress policing and egress shaping. 		
		<ul style="list-style-type: none"> Should support TACACS+ and RADIUS authentication 		
		<ul style="list-style-type: none"> Support for Automatic Quality of Service for easy configuration of QoS features for critical applications. <p>The above specifications stands deleted</p>		
		<ul style="list-style-type: none"> Broadcast storm control to help eliminate network traffic storms 		
		<ul style="list-style-type: none"> IEEE 802.1x to allow dynamic, port-based security, providing user authentication. 		
		<ul style="list-style-type: none"> VLAN ACLs (VACLs) on all VLANs to prevent unauthorized data flows from being bridged within VLANs. Port-based ACLs (PACLs) for Layer 2 interfaces to allow application of security policies on individual switch ports 		

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		<ul style="list-style-type: none"> Standard and Extended IP security router ACLs to define security policies on routed interfaces for control- and data-plane traffic. 		
		<ul style="list-style-type: none"> Unicast MAC filtering to prevent the forwarding of any type of packet with a matching MAC address. 		
		<ul style="list-style-type: none"> Unknown unicast and multicast port blocking to allow tight control by filtering packets that the switch has not already learned how to forward. 		
		<ul style="list-style-type: none"> Support for SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions. 		
		<ul style="list-style-type: none"> Private VLAN to provide security and isolation between switch ports, helping ensure that users cannot snoop on other users' traffic. 		
		<ul style="list-style-type: none"> MAC address management to allow administrators for analysis of users added to or removed from the network. 		
		<ul style="list-style-type: none"> Multilevel security on console access to prevent unauthorized users from altering the switch configuration. 		
		<ul style="list-style-type: none"> IPv6 Host, Management, multicast and QoS. 		
8.	Management	<ul style="list-style-type: none"> Easy-to-use, Web-based management interface through either GUI based software utility or using standard web browser interface which Supports configuration, system dashboard, system maintenance, and monitoring and for easier software/firmware upgrade through network using TFTP/HTTP etc. 		
		<ul style="list-style-type: none"> Should have accessibility using Telnet, SSH, Console access. 		
		<ul style="list-style-type: none"> Intuitive web interface to upload/download Configurations to and from the switch. 		
		<ul style="list-style-type: none"> Provision of Dual flash images to provide independent primary and secondary operating system files for backup while upgrading. 		
		<ul style="list-style-type: none"> Availability of Port statistics through industry-standard RMON 		
		<ul style="list-style-type: none"> SNMPv1, SNMPv2 and SNMPv3. 		

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9.	Networking Passive Components	<ul style="list-style-type: none"> All types Fiber/DAC/Cat-6/Cat-7 Patch Cords of various lengths required to Interconnect Switch-Switch, Switch-Server, Switch-LIU must be provided/supplied from day one. 		
10.	Warranty:	<ul style="list-style-type: none"> 5 Years back to back OEM Warranty with parts 		
11.	Chassis:	<ul style="list-style-type: none"> Device must have 1+1 redundant AC power input supply and must be included with switch from day 1 with necessary mounting kit. 		
12.	Specify the proposed Make			
13.	Specify the proposed Model No			

15.30 40G QSFP+ LR4/SR4 Transceiver Module for DC TOR/ DC Aggregation Switch

#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks, if any
1.	Ports	40G QSFP+ BASE- LR4 port		
2.	Warranty	5 Years comprehensive warranty.		
3.	Specify the proposed Make			
4.	Specify the proposed Model No			

15.31 10G SFP+ SR/LR Transceiver Module for DC TOR / DC Aggregation Switch

#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks, if any
1.	Ports	10G BASE-LR port; Duplex: full only		
2.	Warranty	5 Years comprehensive warranty.		
3.	Specify the proposed Make			
4.	Specify the proposed Model No			

15.43: VM Based Network Access Control Solution

#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks, if any
1.	Solution Type	VM Hosted (VMWare/Hyper-V)		
2.		Bidder/OEM is required to specify recommended hardware specification for hosting/mounting product/solution VM on server like RAM, HDD, vCPU, Ethernet Gig ports, VMware/Hyper-V version etc.		
3.	Features	Product/Solution should be Web-based Centralized GUI that can perform the task mentioned as per below points to devices which are connected to various branches through distributed network and		

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#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks, if any
		thorough multiple router hops via Leased Line/MPLS/Internet with various VLANs or different L3 IP networks configured for its connectivity to HQ/DC.		
4.		Solution should provide functionality to Centrally configure and manage Various Profiles, Guest Access, BYoD, Device/user Authentication and Authorization based services, Administration in single Web-based Centralized GUI console.		
5.		It should be able to authenticate wired devices from LAN, WAN and wireless devices from WLAN as well as VPN users connected to network.		
6.		It should be able to provide clientless web authentication for guest devices.		
7.		It should check for policy compliance before permitting access to any devices on network and upon verification grant access to those particular resources which were allocated for it and block access to other recourses on network.		
8.		Product/Solution should be able to detect/discover and control every managed devices on network and it should be able provide automatic responses to devices based on predefined templets/policy.		
9.		Product/Solution should be able to Enrol guest, BYOD, and IOT devices and provide protection against modern day threats/challenges from IoT , BYoD, guests etc.		
10.		It should be able to detect and eliminate/isolate/quarantine rogue devices on network and should be able to provide alert on dashboard and by other methods like reporting or by email etc..		
11.		It should be able to detect and enforce predefined or custom policy compliance based on user type, device type and operating system.		
12.		Product/Solution should be able to respond/react to events/threats in networks before they spread by its own or by collaborating existing Firewall and End Point Antivirus Solution.		
13.		It should be able authenticate IP devices by its MAC Address with either agentless deployment with the help of 802.1x enabled existing switches in network or with the help of Agent/client (Agent/Client licence must be included if required) based deployment or with combination of both techniques (Agentless & with Agent) without making changes to existing network infrastructure.		
14.		Solution should provide inventory of all devices connected to HQ/DC though LAN-WAN, WLAN which includes Leased Line/MPLS connectivity and able to identify that which device is connected to which port of various managed switches via drilled down access.		
15.		It should provide integration for Inbound & Outbound Security Events.		
16.		It should be able to perform Layer 2 and Layer 3 Polling to fetch/resolve details like IP address, MAC Address, Hostname, Location, Vendor Name,		

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#	Parameter	Minimum Specifications	Compliance (Yes/No)	Remarks, if any
		Operating System for each and every system/device connected to network.		
17.		It should support third-party network devices available in existing infrastructure as per below, Network Devices from OEM like: Cisco, D-Link, H3C, HP/HPE/3Com/Aruba, Intel, Juniper, Brocade, Ruckus, Fortinet products etc. Security/Firewalls like: FortiGate, Checkpoint, Cisco etc. Operating Systems like: MS Windows, Linux, Apple MAC OSX & iOS, Android etc. Endpoint Protection software like: Microsoft, Symantec, Norton, Trend Micro, McAfee etc. Authentication & Directory Services like RADIUS, Microsoft IAS, LDAP, MS Active Directory etc.		
18.		Solution should be compatible and work with existing Enterprise firewall from Fortigate and End Point Antivirus Solution from Symantec & Microsoft.		
19.		It should have inbuilt support 802.1x or SPAN Ports and captive portal to implement solution.		
20.		Solution should be able to create pre-defined templates for endpoints like IP device		
21.		It should provide various advanced and customized Reports for analysis and tools for troubleshooting.		
22.	Licencing	Product Solution offered must have capacity for support of minimum 15,000 Concurrent Ports/End Device/End Users. Product/Solution/Modules offered must be provided with perpetual licence initially for minimum 5,000 Concurrent Ports/ Ports/End Device/End Users which also includes IoT, BYoD, guests devices and it should be upgradable up to at least 15,000 Concurrent Ports/End Device/End Users in future if required with additional licence. Note: SI is required to provide atleast 1 major upgrade during the 5 years of Contract period, if any		
23.	Training	Bidder/OEM is responsible for Full Configuration, Integration, Implementation and maintenance and technical support of solution/product as per requirement of SSCDL/SMC for RFP contract period and necessary hands on training for Administration & Operational Features in this regard is required to be provided without any additional commercial to identified Representatives of SSCDL/SMC.		
24.	Specify the proposed Make			
25.	Specify the proposed Model No			