

**Maharashtra Pollution Control Board, Govt. of Maharashtra
Selection of System Integrator for
Data Centre Core Switch and Networking Active and Passive Components.**

Request for Proposal

**Selection of System Integrator for
Data Centre Core Switch and Networking Active and Passive
Components.**

Maharashtra Pollution Control Board, Govt. of Maharashtra
Selection of System Integrator for
Data Centre Core Switch and Networking Active and Passive Components.

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1. DISCLAIMER

- 1.1 Though adequate care has been taken in the preparation of this *Request for Proposal* Document, the Bidder should satisfy himself that the Document is complete in all respects. Intimation of discrepancy, if any, should be given to the below mentioned office latest by the date mentioned in Sec.5.7. If this office receives no intimation by the date mentioned in Section 5.7, it shall be deemed that the Bidder is satisfied that the *Request for Proposal* Document is complete in all respects.

Member Secretary
Maharashtra Pollution Control Board
Kalpataru Point, 3rd floor,
Opp. PVR Cinema, Near Sion Circle,
Sion (E), MUMBAI – 400 022
Ph: 022-24014701 (Extn: 418 / 417)
Email: eic@mpcb.gov.in

- 1.2 Neither **MPCB**, nor their employees or consultants make any representation or warranty as to the accuracy, reliability or completeness of the information in this RFP nor is it possible for **MPCB** to consider the financial situation and particular needs of each party who reads or uses this RFP. **MPCB** recognizes the fact that certain prospective Bidders may have a better knowledge of the Project than others and thus encourages all prospective Bidders to conduct their own investigations and analysis and check the accuracy, reliability and completeness of the information in this RFP and obtain independent advice from appropriate sources.
- 1.3 Neither **MPCB** nor their employees or consultants will have any liability to any prospective Bidder or any other person under the law of contract, tort, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage which may arise from or be incurred or suffered in connection with anything contained in this RFP, any matter deemed to form part of this RFP, the award of the Project, the information and any other information supplied by or on behalf of **MPCB** or their employees, any consultants or otherwise arising in any way from the selection process for the Project.
- 1.4 **MPCB** reserves the right to reject any or all of the Bids submitted in response to this *Request for Proposal* at any stage without assigning any reasons whatsoever.
- 1.5 **MPCB** reserves the right to change any or all of the provisions of this *Request for Proposal*. Such changes would be intimated to all parties procuring this *Request for Proposal*.

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2. LIST OF ABBREVIATIONS

MPCB	Maharashtra Pollution Control Board
RO	Regional Office, MPCB
DC	Data Centre
HO	Head Office, MPCB
RFP	Request for Proposal
IMIS	Integrated Management Information System
OEM	Original Equipment Manufacturer
UPS	Uninterrupted Power Supply
LAN	Local Area Network
WAN	Wide Area Network
PBG	Performance Bank Guarantee
SPBG	Service Performance Bank Guarantee
LoA	Letter of Award
SLA	Service Level Agreement
SP	System Integrator
MPLS	Multi-Protocol Label Switching
VPN	Virtual Private Network
Mbps	Mega Bits per Second
TB	Terabyte

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3. DEFINITIONS

3.1 BID

The bids submitted by the prospective Bidders in response to this Request for Proposal Document issued by **MPCB**.

3.2 BIDDER

Bidding Firm / Company that has submitted a Bid in response to this Request for Proposal Document.

3.3 DOCUMENT / BID DOCUMENT

This Request for Proposal Document.

3.4 PROJECT

To select an appropriate System Integrator (SI) for Data Centre Core Switching and Structured Cabling of Networking Active and Passive Components with procurement and installation. The cabling installation will be carried out at HO, Central LAB and RO's.

3.5 REQUEST FOR PROPOSAL

This Document being issued to the prospective Bidders, inviting their Bids.

3.6 RESPONSIVE BIDDER

Responsive Bidder is the bidder whose bid is found responsive after evaluation of the Bid as outlined in Section 5.2.

3.7 TENDER COMMITTEE

A committee consisting of MPCB Officials has been formed.

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4. PROJECT CONCEPT & STRUCTURE

4.1 BACKGROUND

Maharashtra Pollution Control Board (MPCB) is an organization under the Department of Environment, Government of Maharashtra. The Board is responsible for ensuring that all norms under the Pollution Control Act as stated by the Ministry are adhered to by all relevant establishments in Maharashtra, which can, through their operations or processes, influence the natural environmental conditions.

The Board has deployed Integrated Management Information System (IMIS) – an integrated e-governance application for automation of their various processes and workflows, such as consent management, cess management, waste management, etc.

The IMIS is rolled out to various offices of the Board and the same is accessed through IT infrastructure deployed at these offices. As a part of IMIS rollout, the Board has deployed a Data Centre facility at HO since 2008. The Board is in the process of upgrading the ICT infrastructure and hence is in the process of upgrading the core IT Networking infrastructure within the Data Centre.

4.2 CURRENT INFRASTRUCTURE

MPCB has a LIVE Data Centre facility at HO, Sion. The core infrastructure components viz Servers, Storage, Network, etc. are housed in the Data Centre. There are various applications hosted the servers which are accessed by the MPCB users in their various Regional and Sub-Regional offices (RO and SRO) and Laboratories across Maharashtra. These various offices are connected through MPLS VPN and are protected through a Firewall. There is a robust storage and Backup infrastructure along with automated backup facility.

The details of the relevant current infrastructure are given for the convenience of the bidders at Annexure -1.

4.3 OBJECTIVE OF THE RFP

The current Network infrastructure needs upgradation. It is the objective of the RFP to select the most suitable System Integrator (SI) for upgradation and purchase of the current MPCB Infrastructure to upgraded / expanded hardware platform revamp data network connectivity.

It may be noted that the ALL the current networks which are LIVE need to be ported seamlessly and with no or minimal downtime, so that the working of MPCB continues in the same manner as before the transition, transparently to the users.

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The System integrator (SI) is required to supply the equipment required, install, test and commission the same. Post implementation, the SI is required to provide preventive and breakdown support for the infrastructure.

4.4 EXECUTION PERIOD

The System Integrator will be required to supply the required equipment, complete the installation and commissioning of the equipment with proper testing and create documentation of the infrastructure as a part of the handover exercise. All the activities mentioned here are to be completed within FIFTEEN (15) weeks from the date of LoA. The System Integrator is mandated to support the infrastructure for THREE (3) years from the date of CoOP as per the required Service Levels.

5. DESCRIPTION OF THE SELECTION PROCESS

5.1 SUBMISSION OF BIDS

The submission of Bids by interested bidders in response to the Request for Proposal should be through e-Tender system only as mentioned in Annexure 5. The Bids will be

Envelope 1 / Cover 1 : Technical Bid
Envelope 2/ Cover 2 : Price Bid.

5.2 RESPONSIVENESS OF THE BID

The Bids submitted by Bidders shall be initially scrutinized to establish "Responsiveness". A Bid may be deemed "Non-responsive" if it does not satisfy any of the following conditions:

1. If Technical Bid does not conform to the minimum eligibility Criteria mentioned in Clause 7.1
2. If online EMD not paid, as stipulated in the RFP
3. It does not include sufficient information for it to be evaluated and/or is not in the formats specified.
4. It does not conform to the terms and conditions mentioned in the RFP

The Bids of Responsive Bidders shall be evaluated in the following two steps.

5.3 STEP 1 (COVER 1) – TECHNICAL BID EVALUATION

In the first step, MPCB will evaluate the information submitted by the Bidder in Cover 1 of the Bid. Bids of only the responsive Bidders shall be considered for the subsequent technical evaluation. The evaluation criteria for assessment of the Technical Bid are described in Section-7.3.1.

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5.4 STEP 2 (COVER 2) – PRICE BID AND PRICE BID EVALUATION

The Price Bid would seek to identify the Bidder making the most competitive price offer to MPCB. The evaluation criteria for assessment of the Price Bid are described in Section -9. The format for the Price Bid is specified in Annexure - 4

A list of Bidders based on the results of the evaluation, as detailed in Section-9 of this Document, would be presented. The MPCB is bound to award a LoA to the lowest price bidder.

5.5 AWARD OF LoA

Successful Bidder would be given a Letter of Award (LoA) stipulating the conditions under which the bid has been qualified as the Successful Bid.

5.6 SIGNING OF ORDER ACCEPTANCE

The Successful Bidder would sign a copy of the Purchase / Work Order as a token of acceptance of the same.

5.7 SCHEDULE OF ACTIVITIES

Sr. No.	ACTIVITY	Date
1.	Date of Start of Sale of RFP document	9 th March 2019
2.	Date of End of Sale of RFP document	18 th March 2019
3.	Last date for receipt of requests for clarifications	18 th March 2019 1700 Hrs
4.	Pre-bid Conference	19 th March 2019, 1500 Hrs
5.	Last date & time for receipt of Bids (Containing Covers 1 & 2)	25 th March 2019, 1700 Hrs
6.	Time and Date of Opening of Technical Bid (Cover-1)	29 th March 2019, 1100 Hrs
7.	Presentation by the bidders on their project implementation and support methodology with proposed schedule of activities	To be announced
8.	Opening of Commercial Bid (Cover-2)	02 nd April 2019, 1100 Hrs

Bidders are also requested to read Annexure – 5 for detailed schedule of activities related to this RFP and bid submission process

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In order to enable MPCB to meet the target dates, Bidders are expected to respond expeditiously to clarifications, if any, requested during the evaluation process. MPCB shall adhere to the above schedule to the extent possible. MPCB, however, reserves the right to modify the same. Intimation to this effect shall be given to all Bidders.

6. PROCEDURES TO BE FOLLOWED

6.1. ENQUIRIES & CLARIFICATIONS

Enquiries, if any, should be addressed to:

IT Manager
Maharashtra Pollution Control Board Kalpataru
Point, 3rd floor,
Opp. PVR Cinema, Near Sion Circle,
Sion (E), MUMBAI – 400 022
Ph: 022-24014701 (Extn: 418 / 417)
Email: eic@mpcb.gov.in

All queries that are received on or before the date mentioned in Section 5.7 shall be addressed by MPCB in writing. MPCB shall aggregate all such queries, without specifying the source and shall prepare a response, which shall be distributed to all parties who have procured the Request for Proposal Document. It may be noted that queries in writing would be entertained only from those parties who have procured this Document.

Request for clarifications received from prospective bidders who have not paid the fee for the RFP document as defined in 6.5.1, will not be answered. Such bidders will not be allowed to attend the pre bid meeting and also to bid.

Request for clarifications received after the last date mentioned in Section 5.7, may not be addressed. Decision of the Board in the matter will be final.

The prospective Bidders shall submit the queries only in the format given below:

Sr. No	RFP Page No	RFP Clause No	Description in RFP	Clarification Sought	Additional Remark (if any)

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6.2. SUBMISSION OF THE BID

1. Cover 1 – Technical Bid
The information to be submitted by the Bidders as Cover 1 of their Bids is described Annexure 5.
2. Cover 2 – Price Bid
The Information to be submitted by the Bidders in the Price Bid (Cover 2) is described in Annexure 4.
3. Submission of the Bid
The Bidders are requested to follow the Bid submission process which is detailed in Annexure 5 as per the schedule elaborated in Section 5.7 and Annexure 5.

6.3. INSTRUCTIONS TO BIDDERS

All Bidders should note the following:

1. Bids that are incomplete in any respect or those that are not consistent with the requirements as specified in this *Request for Proposal* or those that do not contain the Covering Letter and other documentation as per the specified formats may be considered non-responsive and may be liable for rejection.
2. Strict adherence to formats, wherever specified, is required. Non-adherence to formats may be a ground for declaring the Bid non-responsive.
3. All communication and information should be provided in writing and in the English language only.
4. The metric system shall be followed for units.
5. The price quotations for the bid should be denominated in Indian Rupees.
6. All communication and information provided should be legible, and wherever the information is given in figures, the same should also be mentioned in words.
7. Arithmetical errors will be rectified as follows –
 - a. If there is a discrepancy between the unit price and the total price that is obtained by multiplying quantities, the unit price will prevail
 - b. In case of discrepancy between grand total obtained by adding various line item totals & the grand amount stated in words, the grand total will be recalculated and the same will be taken as correct.

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- c. **The price bid will be treated as inconsistent & non-responsive, in case if more than one type of discrepancy is observed in the price bid. Such price bid/s will be rejected summarily and considered as intentional misrepresentation and the EMD will be forfeited.**
8. MPCB reserves the right to seek additional information from the Bidders, if found necessary, during evaluation of the Bid. Non-submission, incomplete submission or delayed submission of such additional information or clarifications sought by MPCB, may be a ground for rejecting the Bid.
9. The Bids shall be evaluated as per the criteria specified in this RFP Document. However, within the Board framework of the evaluation parameters as stated in this Request for Proposal, MPCB reserves the right to make modifications to the stated evaluation criteria, which would be uniformly applied across all the Bidders.
10. The Bidder should designate one person ("Contact Person" and "Authorized Representative and Signatory") authorized to represent the Bidder in its dealings with MPCB. The Acknowledgement of Receipt of Request for Proposal Document shall be signed by the "Contact Person" and "Authorized Representative and Signatory". This designated person should hold the Power of Attorney and be authorized to perform all tasks including but not limited to providing information, responding to enquiries, entering into contractual commitments on behalf of the Bidder etc. The Covering Letter submitted by the Bidder shall be signed by the Authorized Signatory and shall bear the stamp of the entity thereof.
11. The Bid (and any additional information requested subsequently) shall also bear the initials of the Authorized Signatory and stamp of the entity thereof on each page of the Bid.
12. MPCB reserves the right to reject any or all the Bids without assigning any reason whatsoever
13. Conditional bids may be summarily rejected.
14. Mere submission of information does not entitle the Bidder to meet an eligibility criterion. MPCB reserves the right to vet and verify any or all information submitted by the Bidder.
15. If any claim made or information provided by the Bidder in the Bid or any information provided by the Bidder in response to any subsequent query by MPCB, is found to be incorrect or is a material misrepresentation of facts, then the Bid will be liable for rejection and the Bid Security will be forfeited. Mere clerical errors or bonafide mistakes

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may be treated as an exception at the sole discretion of MPCB and if MPCB is adequately satisfied.

16. The Bidder shall be responsible for all the costs associated with the preparation of the Bid. MPCB shall not be responsible in any way for such costs, regardless of the conduct or outcome of this process.

6.4. VALIDITY OF THE PRICE BID

Each Bid shall indicate that it is a firm and irrevocable offer and shall remain valid and open for a period of not less than 180 days.

Non-adherence to this requirement and other terms stipulated in the RFP document may be a ground for declaring the Bid as non-responsive. However, MPCB may solicit the Bidder's consent for extension of the period of validity if the Bidder agrees to reasonably consider such a request. The request and response shall be in writing. A Bidder accepting MPCB's request for extension of validity shall not be permitted to modify his Bid in any other respect.

6.5. FEES AND DEPOSITS TO BE PAID BY THE BIDDERS

6.5.1. Fees for Request for Proposal (RFP) document

The RFP can be purchased by making a payment (non-refundable) of **₹10,000/-** (Rupees Ten Thousand only) through online payment. Please refer Annexure 5 of this document for the payment methodology.

It is mandatory for the bidders to display the proof of purchase of the RFP document to attend the pre-bid meeting.

6.5.2. Earnest Money Deposit (EMD)

Bidders are required to submit an Earnest Money deposit (EMD) online for an amount of **₹5, 00,000/-** (Rupees Five Lakhs Only). Please refer Annexure 5 for the payment of the same. Bids of the bidders who have not paid the EMD as stipulated in this RFP, will be rejected by MPCB as non-responsive. No exemptions to this clause will be allowed.

MPCB shall reserve the right to forfeit the Bidder's EMD under the following circumstances:

1. If the Bidder withdraws his Bid at any time during the stipulated period of Bid validity as per Section 8.1 (or as may be extended).

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2. If the Bidder, for the period of Bid validity:
 - i) In MPCB's opinion, commits a material breach of any of the terms and / or conditions contained in the RFP Document and / or subsequent communication from MPCB in this regard and / or
 - ii) Fails or refuses to execute the LoA (in the event of the award of the Project to him) and/or
 - iii) Fails or refuses to furnish the Service Performance Guarantee within the stipulated time
3. Any claim made or information provided by the Bidder in the Bid or any information provided by the Bidder in response to any subsequent query by MPCB, is found to be incorrect or is a material misrepresentation of facts

In the event that any Bid is non-responsive or rejected after technical evaluation, the EMD of such Bidders shall be refunded.

In respect of the bids after Technical Evaluation and eligible for price bid evaluation, the EMD of the unsuccessful Bidders (after opening of Cover 2) can cease to be in force after 60 days following the announcement of award of the Project to the Successful Bidder through the issue of the LoA for the same. The EMD of the successful Bidder will be returned only on submission of Supply Performance Bank Guarantee (SPBG) that Successful Bidder will provide at the time of signing Order acceptance & the SLA. EMD of the unsuccessful bidders will be returned after award of contract to the successful bidder.

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7. SUBMISSION OF TECHNICAL BID: COVER - 1

7.1. CRITERIA FOR MINIMUM ELIGIBILITY AND BID RESPONSIVENESS:

The Bidder shall fulfil the following Minimum Eligibility Criteria to participate in the bidding process. The Bidder should provide necessary documentary evidences of compliance as follows. Failure to do so for any of the Criteria mentioned below shall result in disqualification of the Bidder.

1. The Bidder should be a corporate entity, public or private limited company registered / incorporated under The Companies Act, 1956, and in business of IT system Integration and maintenance services for minimum FIVE (5) years. No consortiums allowed.
2. The bidder should have a minimum average Turn Over for last three years is **₹15,00,00,000/-** (Rupees Fifteen crores only) as on 31st March 2018.
3. The bidder must be and ISO 9001 certified having a Valid Certificate on the date of bidding
4. The Bidder should be compliant to the Technical specifications given in Annexure 3
5. The Bidder should have officially purchased the RFP document from MPCB office by paying the necessary fees.
6. The Bidder should submit the EMD as stipulated.
7. The Bidder must have completed at least 2 orders of PSU / Government Organizations in last 3 years from the date of publishing of this tender. Each order of at least ₹50, 00,000/- (Rupees Fifty Lakhs) and above.

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7.2. COVER 1: INFORMATION FORMATS

Bidders are required to organize Cover-1 as per the following checklist -

Cover 1	Compliance to Minimum Eligibility Criteria and Technical Bid
Section 1	<ul style="list-style-type: none">a) Covering Letter as per the format specified in EXHIBIT 1b) Attested copy of Power of Attorneyc) EMD as per section 6.6.2d) Certificate of incorporation / registratione) CA's certificate about the Net worth as on 31st March 2018f) Self-Certified Compliance Certificate as per Annexure 3.
Section 2	<ul style="list-style-type: none">a) Documentary Proofs as testimony for Evaluation of Technical bids as per criteria listed in Section 7.1 & 7.3.1b) Manufacturer's Authorization Form in the prescribed format as mentioned in Exhibit 3c) Technical proposal highlighting<ul style="list-style-type: none">• Company profile• Proposed methodology to execute the projectResource availability with their skill sets and deployment plan for MPCB

7.3. TECHNICAL BID: EVALUATION CRITERIA & PROCESS

The Bidder shall necessarily submit in Cover 1 of the Bid Document, the Technical Bid detailing his credentials for executing this project and the highlights of the services proposed with respect to scope of work defined in the Bid Document and the benefits that would accrue to MPCB. The Tender Committee appointed for this purpose will do this evaluation. The Technical Bid will contain all the information required to evaluate the bidder's suitability to MPCB for the purpose of this project.

The guidelines for evaluation have been designed to facilitate the objective evaluation of the Technical Bid submitted by the bidder. The information furnished by the bidders in the technical bid shall be the basis for this evaluation. In case any of the information is not made available, the Committee will assign zero (0) marks to that item.

While evaluating the Technical Bid, MPCB reserves the right to seek clarifications from the Bidders. Bidders shall be required to furnish such clarifications in a timely manner.

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MPCB also reserves the right to seek additions, modifications and other changes to the submitted Bid. Bidders shall be required to furnish such additions / modifications / other changes in a timely manner.

7.3.1. Evaluation of Technical Bid

The technical evaluation of the bidders will be done based on the criteria and marking system as specified as follows:

Sr. No.	Criteria	Graded Marks	Max. Marks	Testimonial to be presented
1	Constitution and Average Annual Turnover		10	
a	Average Turnover (AT) of the organisation for past 3 financial years ending 31st March 2018			Certificate from CA
	AT < Rs 15.00 crores but > 20.00 Crores	2		
	AT < ₹ 20.00 crores but ≥ 25.00 Crores	5		
	AT ≥ ₹ 25.00 crores	10		
2	Past Performance		45	
a	Orders execute and completed for supply and commissioning of PSU / Government Organization with Similar infrastructure supply i.e. Servers, SAN storage and Network Switches			Self-Certified list of orders giving name & address of customer, telephone number & email ID of contact person, value of order, year of execution of order and brief description of the assignment
	Orders = 2	5		
	Orders ≥ 3	10		
b	Network Implementation or Management of DC Core, LAN and WAN Switching.			
	Orders < 2 but > 3	5		
	Orders < 4 but ≥ 2	10		
	Orders ≥ 4	15		
c	Single Passive Installation Orders executed in the past 3 financial years ending March 2018 for Govt / Semi Govt organisation			
	Orders < 2 but > 3	5		
	Orders < 4 but ≥ 2	10		
d	Completed Installation of Multiple Geographic Locations in past 3 financial years ending March 2018 for Govt / Semi Govt organisation			
	Orders < 2 but > 3	5		
	Orders < 4 but ≥ 2	10		

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Sr. No.	Criteria	Graded Marks	Max. Marks	Testimonial to be presented
3	Organisation Capabilities		10	
a	Bidding organisation has a valid ISO 27001 Certification, as on the date of bidding	5		Self-attested copy of the valid certificate
b	Bidding organisation has a valid any other ISO Certification, as on the date of bidding	5		
4	Certified Professionals		10	
a	Completed Installation of Multiple Geographic Locations in past 3 financial years ending March 2018 for Govt / Semi Govt organisation / PSU			One Mark per certified professional. Maximum obtainable marks will be 10
	=	5		
	>5	10		
5	Presentation on Implementation Methodology		25	Write-up of the plan and actual presentation to be included in the Technical Bid
	TOTAL MARKS		100	

If in MPCB's opinion, the Technical Bid does not meet the minimum technical specifications & service requirements or is otherwise materially deficient / inconsistent in any other aspect; the Bid shall be declared Technically Evaluated & Non-Responsive and shall not be considered for further evaluation.

If any bidder is found to be technically inadequate to the requirements of MPCB, i.e. if the technical marks are lower than **75**, then that bidder's bid would be deemed nonresponsive for further evaluation and would not be considered further in the bidding process i.e. their Price Bids will not be opened.

If in case, after technical evaluation, only one bidder is found to be responsive & eligible, i.e. if the technical marks of only one bidder are more than or equal to **75**, the Board will take appropriate action in consultation with the tender committee and the competent authority.

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7.4. PRESENTATION BY BIDDERS

MPCB shall invite the Bidders to make a presentation, at their own cost and expenses, for their execution methodology and support plan to meet the required SLA. The schedule for the presentation along with date and time slot will be communicated to the bidder/s, by MPCB at a later date.

Presentation Parameters:

Sr. No.	Parameters	Marks
1	Understanding of Current MPCB Infrastructure	3
2	Knowledge of Project	5
3	Execution Strategy	5
4	Timelines of Implementation	4
5	Work flow Diagram	3
6	Value additions	5
	Total	25

8. PAYMENT TERMS

8.1 The Price Bid should be valid for a minimum period of 180 days from the last date of submission of bids

8.2 Following payment terms will be offered to the successful Bidder:

- a) Within 15 days of signing the Purchase Order/Work Order Acceptance the Successful bidder will submit to MPCB a PBG for 5% of the value of the contract. The PBG shall be in the form of a guarantee of a Nationalised Bank(s) acceptable to the MPCB and shall be valid till 38 months from the date of the Purchase Order / Work Order acceptance.
- b) Payment will be made in the following stages.

Sr. No.	Stage	Percentage payable
1	Issue of Purchase Order	25%
2	Supply of material -switches	25%
3	Completion of Installation of work process	25%
4	Issue of CoOP / handover of Documentation and training	25%

- c) All payments will be made after deduction of penalties if any, vide a crossed cheque payable in Mumbai and within 30 days of submission of invoice.
- d) Taxes as applicable by State / Central Government. Any change in taxes will be borne by the board.

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8.3 Liquidity Damages and Penalty:

For any delay in installation and commissioning beyond FIFTEEN (15) weeks from the date LoA / Purchase Order, the Board reserves the right to charge an LD (Liquidated Damages) at the rate of 1% of the total contract value for the delay of every week or part thereof, subject to a maximum of 10% of the total contract value.

9. EVALUATION OF PRICE BID: COVER 2

9.1 PRICE BID PARAMETERS

Bidders are required to offer their best prices for the services only in the format of the price bid given at Annexure-1 of this RFP document. Price offer in any other format will result in rejection of the bid and disqualification of the bidder from the evaluation process.

9.2 EVALUATION OF PRICE BIDS

The price bids of only technically successful bidders whose technical Bids have been awarded **75** or more marks by the Committee will be opened.

9.3 AWARD CRITERIA

The contract will be awarded to the lowest price bidder whose commercials quoted are lowest as compared to other technically qualified (Minimum Score eligibility 75%) bidder.

9.4 NOTIFICATION OF AWARD

MPCB will notify the successful bidder in writing that his bid has been accepted. Upon the successful bidder's furnishing of performance security, MPCB will promptly notify each unsuccessful bidder and will discharge their bid security.

10. INDEMNIFICATION

The bidder hereby agrees and undertakes that, during the Term of the Contract, it shall indemnify and keep indemnified and otherwise save harmless, MPCB from any third party suits instituted against MPCB which are proved to be because of a direct consequence of the installation and / or use of equipment & services provided by the successful bidder.

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11. ASSIGNABILITY

The successful bidder will not assign its rights, title or interest in the contract in favour of any third party without prior written consent of MPCB. MPCB reserves its rights to grant such consent on such terms and conditions, as it deems fits and proper. MPCB's decision to grant such consent or refusal to grant such consent shall be final.

12. CONFIDENTIALITY

Successful Bidder shall hold data and information about MPCB, obtained during the execution of its responsibilities, in strict confidence and will not reveal such information to any other party without the prior written approval of MPCB.

Successful Bidder and MPCB shall maintain in confidence any information relating to the terms and conditions of this contract, information received from each other hereto in connection with this agreement as well as the business operations and affairs of MPCB or the successful bidder and their affiliates and shall not provide access to such information to any third party. This obligation shall expire 2 years after completion of the contract.

13. CORRUPT & FRAUDULENT PRACTICES

MPCB requires that the bidder under this RFP document maintains highest standards of ethics during procurement and execution of this project. In pursuance of this policy the board defines the terms set forth as follows

"Corrupt practice" means offering, giving, receiving or soliciting of anything of value to influence the action or decision making of public official in the procurement process or execution of the project.

"fraudulent practice" means misrepresentation of facts in order to influence the action or decision making of public official in the procurement process or execution of the project to the detriment of the board, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the board the benefits of free & open competition.

If it is determined that bidder / s are engaged in corrupt & fraudulent practices their bid/s will be rejected and also will be declared ineligible for indefinite period or a stated period to time to participate in any future RFP floated by MPCB.

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14. TERMINATION OF CONTRACT

14.1 Termination for Default

MPCB without prejudice to any other remedy available for breach of Contract may terminate the Agreement in whole or in part, by a 7 days' notice in writing to the System Integrator for any one or all of the following. On such termination, in addition to any other remedy available under the contract the EMD / PBG /SPBG will be liable for forfeiture.

1. The System Integrator in the judgment of MPCB has made any misrepresentation of facts and / or engaged in corrupt, fraudulent practices.
MPCB shall afford an opportunity to the System Integrator to represent his case before termination of the agreement.
2. The System Integrator fails to complete the project within the given time frame as mentioned in Clause 4.4 of this RFP.

In the event MPCB terminates the Agreement in whole or in part, MPCB may procure upon such terms and in such manner as it deems appropriate products and / or service similar to those undelivered and the System Integrator shall be liable to pay to MPCB for any excess costs occurred for procuring such similar services.

14.2 Termination for Insolvency

If the System Integrator becomes bankrupt or otherwise insolvent, MPCB may terminate the Contract by giving written notice of 15 days to the System Integrator. In this event, termination of the contract will be without compensation to the System Integrator, provided that such termination shall not prejudice any right to action or remedy available to the MPCB which is provided in the RFP document.

15. ARBITRATION

All disputes, differences, claims and demands arising under or pursuant to or touching this document shall be settled by arbitration of sole arbitrator to be appointed by both the parties and failing such agreement, by two arbitrators, one to be appointed by each party to disputes. All arbitrations shall be held at Mumbai location.

16. FORCE MAJEURE

Notwithstanding the provisions of the RFP, the service provider or MPCB shall not be liable for penalty or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure. For purposes of this clause, "Force Majeure" means an event beyond the control of the service provider and not involving MPCB or Service Provider's fault or negligence and not foreseeable. Such

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events may include, but not restricted to wars, revolutions, epidemics, natural disasters etc.

If force majeure situation arises, the service provider shall promptly notify MPCB in writing of such condition and cause thereof. Unless otherwise directed by MPCB in writing, the service provider shall continue to perform its obligations under contract as far as possible.

17. LEGAL JURISDICTION

All legal disputes are subject to jurisdiction of Mumbai courts only.

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EXHIBIT – 1

18. FORMAT OF THE COVERING LETTER

FORMAT OF THE COVERING LETTER

(The covering letter is to be submitted by the Bidder along with the Cover 1 of the Bid)

Date:

Place:

To
Member Secretary
Maharashtra Pollution Control Board
Kalpataru Point, 3rd floor,
Opp. PVR Cinema, Near Sion Circle,
Sion (E), Mumbai – 22

Dear Sir,

Sub: Selection of System Integrator for Data Centre Core Switch and Networking
Active and Passive Components

Please find enclosed one (1) original + one (1) copies of our Bid for “**Selection of System Integrator for Data Centre Core Switch and Networking Active and Passive Components**” in response to the Request for Proposal (RFP) Document issued by **MPCB** dated

We hereby confirm the following:

1. The Bid is being submitted by *(name of the Bidder)* who is the Bidder in accordance with the conditions stipulated in the RFP.
2. We have examined in detail and have understood the terms and conditions stipulated in the RFP Document issued by **MPCB** and in any subsequent communication sent by **MPCB**. We agree and undertake to abide by all these terms and conditions. Our Bid is consistent with all the requirements of submission as stated in the RFP or in any of the subsequent communications from **MPCB**.
3. We have paid the EMD online as per the RFP terms.
4. The information submitted in our Bid is complete, is strictly as per the requirements as stipulated in the RFP and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Bid.
5. We as the Bidder (Please strike out whichever is not applicable), designate Mr/Ms (mention name, designation, contact address, phone no., email, etc.), as our Authorized Representative and Signatory who is authorized to perform all tasks including, but not limited to providing information, responding to enquiries, entering into contractual commitments etc. on behalf of us in respect of the Project.

For and on behalf of:
Signature:

Maharashtra Pollution Control Board, Govt. of Maharashtra
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(Authorized Representative and Signatory)

EXHIBIT – 2

Name & Designation of the Person:

19. FORMAT FOR COVERING LETTER SUBMISSION- WITH PRICE BID

FORMAT FOR COVERING LETTER SUBMISSION- WITH PRICE BID

(The Price Bid should be submitted along with the following cover letter. Format of Price Bid is given in Annexure - 4)

Date:

Place:

To
Member Secretary
Maharashtra Pollution Control Board
Kalpataru Point, 3rd floor,
Opp. PVR Cinema, Near Sion Circle,
Sion (E), Mumbai – 400 022

Dear Sir,

**Sub: Selection of System Integrator for Data Centre Core Switch and Networking
Active and Passive Components.**

As a part of the Bid, we hereby make the following price offer to the MPCB.

The cost of the services to be provided as per the requirements stipulated in this RFP is mentioned in the Price Bid as per **Annexure – 4** of the RFP. The price quoted is for the Scope of work as defined in Annexure 2.

We agree to bind by this offer if we are selected as the Successful Bidder.

For and on behalf of:

Signature

(Authorized Representative and Signatory of the Bidder)

Name of the Person:

Designation:

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EXHIBIT – 3

20. MANUFACTURER'S AUTHORISATION FORM

MANUFACTURER'S AUTHORISATION FORM

(This letter of authority must be on the letterhead of the Manufacturer, must be signed by a person competent and having the power of attorney to bind the Producer, and must be included by the Bidder in its bid as specified in the Instructions to Bidders.)

Date:

Place:

To,
Member Secretary
Maharashtra Pollution Control Board
Kalpataru Point, 3rd floor,
Opp. PVR Cinema, Near Sion Circle,
Sion (E), Mumbai – 400 022

Dear Sir,

WHEREAS <Name and address of the Manufacturer> who are official producers of <description of the respective equipment> do hereby authorize <name of the Bidder> located at <Address of the Bidder> (hereinafter, the "Bidder") to submit a bid of the following Products produced by us, for the Supply Requirements associated with the above Invitation for Bids. When resold by Name of the Bidder>, these products are subject to our applicable standard end- user warranty terms.

We assure you that in the event of <Name of the Bidder>, not being able to fulfil its obligation as our Service Provider in respect of our standard Warranty Terms, we would continue to meet our Warranty Terms through alternate arrangements.

We also confirm that <Name of the Bidder> is our authorized Service Provider / System Integrator and can hence provide maintenance and upgrade support for our products.

Name
In the capacity of

Signed

Duly authorized to sign the authorization for and on behalf of: _____

Dated:

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21. ANNEXURE – 1

CURRENT INFRASTRUCTURE DETAILS

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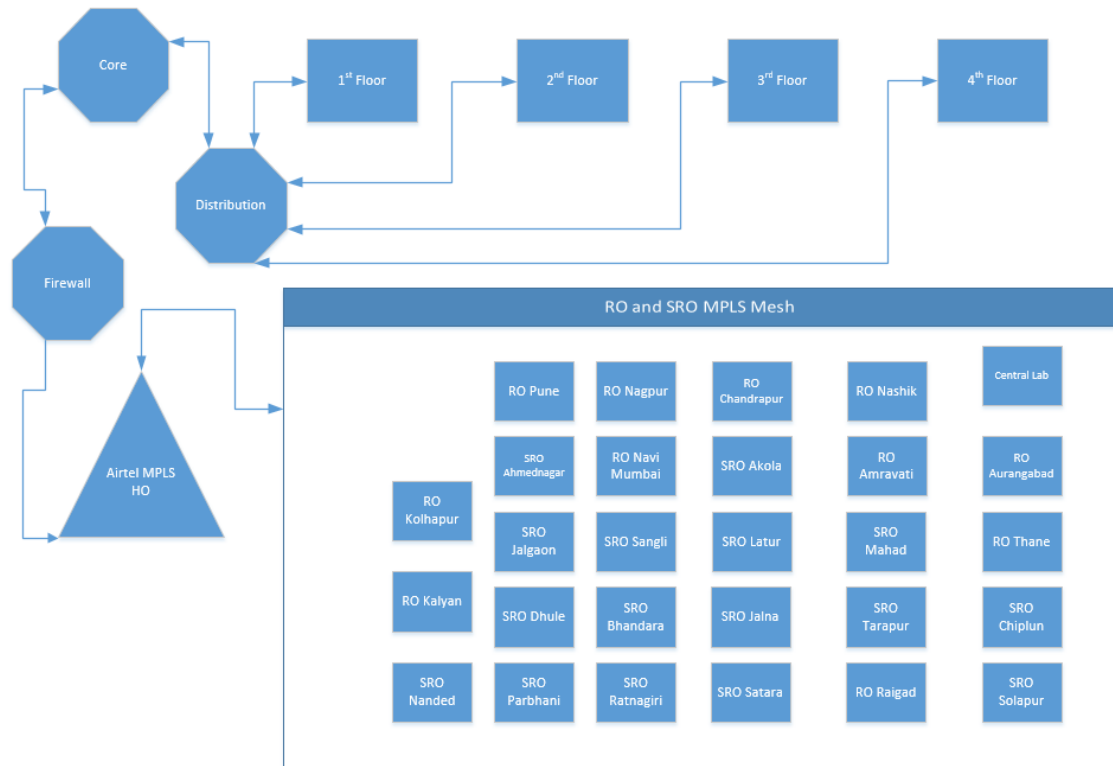
Network Infrastructure and Ports Requirement per Site

Head Office	Data Centre Total Ports for Core 24 10G Fibre / Ethernet Distribution Switch 15 Ports 1GbE SAN 10 Gb or 40 Gb 1 x 1 Ports	1 st Floor 48 Ports	2 nd Floor 96 Ports	3 rd Floor 120 Ports	4 th Floor 96 Ports
Central Lab Ground Floor 8 ports 1 st Floor 16 ports 2 nd Floor 16 ports 3 rd Floor 8 Ports 4 th Floor 16 Ports 5 th Floor 8 Ports	RO Amravati Ground Floor 16 Ports 1 st Floor 16 Ports	RO Aurangabad 48 Ports	RO Chandrapur 16 Ports	RO Kalyan 3 rd Floor 16 Ports 4 th Floor 16 Ports	RO Kolhapur 16 Ports
RO Nagpur 5 th Floor 24 Ports 6 th Floor 24 Ports	RO Nashik 48 Ports	RO Navi Mumbai 48 Ports	RO Pune 2 nd Floor 48 Ports 3 rd Floor 48 Ports	RO Raigad 24 Ports	RO Thane 48 Ports
SRO Ahmednagar 16 Ports	SRO Akola 16 Ports	SRO Bhandara 16 Ports	SRO Chiplun 16 Ports	SRO Dhule 16 Ports	SRO Jalgaon 16 Ports
SRO Jalna 16 Ports	SRO Latur 16 Ports	SRO Mahad 16 Ports	SRO Nanded 16 Ports	SRO Parbhani 16 Ports	SRO Ratnagiri 16 Ports
SRO Sangli 16 Ports	SRO Satara 16 Ports	SRO Solapur 16 Ports	SRO Tarapur 16 Ports	Note: All Campus switching has to be at least 1G Ethernet and Uplink / Stacking of 10G Fibre	

Port requirement Information

Please note: This is approximate Port requirement. Vendor has to do a survey and get information of the actual port requirement for each site.

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Organization Network Connectivity Diagram

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22. ANNEXURE – 2

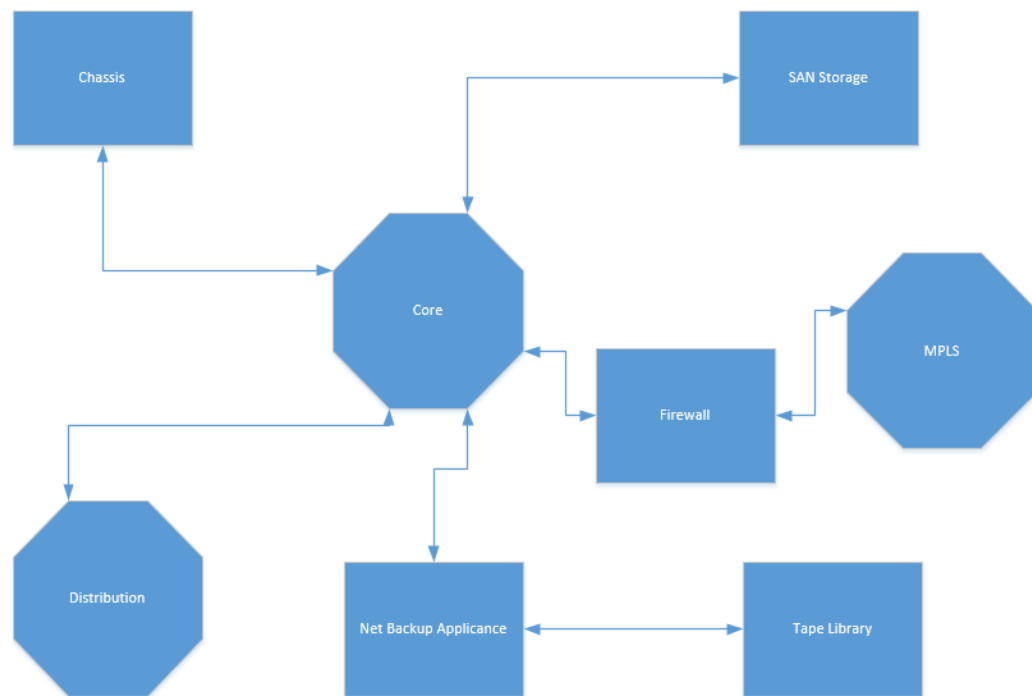
PROPOSED SOLUTION DESIGN and SCOPE OF WORK

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1.0 PROPOSED SOLUTION DESIGN

1.1. Proposed physical connectivity

The schematic below gives the proposed and required physical connectivity of the hardware to be supplied. Various components of the infrastructure are depicted along with the connectivity paths.



HO Sion Proposed Connectivity

The Bidders are required to mount the equipment in the Equipment Rack already available or supplied by the Bidder (Whichever is applicable as per the scenario) with MPCB. The equipment distribution should optimize the Power distribution per rack and the total number of equipment racks. The number of racks is two (2). The broad description of the components is given from 1.3 onwards in this annexure. Distribution and Core switch needs redundant power supply.

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1.2 Key highlights of the solution

1. Robust design:
The Core Switching will be configured in a N+1 configuration where N represents the number of physical Switches in the respective configuration. In case of failure of one of the physical Switches, the load will be seamlessly transferred to the other Switch.
2. Scalable Solution:
The suggested switching solution should have option to expand and scale in future.
3. Single Management console for monitoring and administration of the Total Core, LAN and WAN Networking environment.
4. A separate dedicated server will be used for Backup software.

1.3 Components of the Core Infrastructure

1.3.1 Server Infrastructure

Currently we have a single chassis:

- NIC – 2 x 10/40 GbE
- HBA – 2 nos

1.3.1 Core Network switches

The Core network and Distribution switches are required for ensuring a faster copper connectivity of the servers to the network. We propose Network switches which will be working as redundant and load balancing mode.

Broad minimum specifications for the core Network switches are proposed as follows

Minimum number of ports:	24
Port speed:	10Gbps
Routing:	Layer 3 and 4
Min redundancy features:	Dual power supply Redundant fans

The detailed specifications for the CORE NETWORK SWITCHES can be found at Annexure - 3, which need to be complied with. Number of ports mentioned above is assumption. Bidder needs to do a survey to understand the detailed requirement and accordingly align the number of ports for each segments of switch in this RFP.

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2.0 SCOPE OF WORK

2.1 Stakeholders and their responsibilities

There are TWO (2) stakeholders in the project viz. MPCB and System Integrator (SI). Broad roles of each of the stakeholder is mentioned below.

MPCB as the project sponsor will ensure access to the facilities and facilitate information regarding the existing infrastructure. The Board understands that there may be various other agencies involved in the migration process and will ensure that the same are available during the process of migration based on requests by the SI within a reasonable timeframe.

The System Integrator (SI) is responsible to migrate the current infrastructure of the MPCB Data Centre (Core Network, Distribution, Campus Switches and Structured Cabling including End Points at HO, Central LAB and RO's) from existing setup to a new network environment with minimum or no downtime. It may be noted that the migration exercise will require handshaking with many other devices / equipment already existing within the Data Centre such as Power Conditioning Equipment, Access switches, Routers and MPLS links, Firewall and other security appliances, etc.

The SI need to do a survey with MPCB designated Staff (joint Survey between MPCB and SI) of all RO's and Central Lab and present us a report on replacing the cables and redressing at Racks and Workstations end. The SI should ensure the Networks must be in an optimal working state at Location.

The System Integrator is mandated to ensure a seamless migration to the modernized setup in a transparent manner so that any external agencies (including MPCB users) interfacing with the Data Centre infrastructure do not experience any change of interface. The Migration will be deemed complete and successful upon testing ALL the application of MPCB for their operations and by having printing of the test results.

The responsibilities of each of these stakeholders (SI and MPCB) are broadly outlined here. These should be taken as broad guidelines only and mentioned here for necessary resource planning by the Bidders. However, as mentioned earlier, the Scope of Work for the successful bidder i.e. System Integrator (SI) will be to supply the equipment, install and commission the same to ensure that the existing operations of MPCB continue operating the same way as before post-migration in a transparent manner to the MPCB users and other external interfacing agencies. The Certificate of Operation (CoOP) will be issued to the SI only upon satisfactory completion of the Scope of Work which may be substantiated by necessary documentation.

For the sake of convenience of the Bidders, the Scope of Work is further elaborated as below. The same should be taken as general guidelines and not an exhaustive list.

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2.2 Responsibilities of the System Integrator

2.2.1 Preparation

1. Understand the current infrastructure setup of MPCB Data Centre along with layout, configurations and working.
2. Submit the implementation plan to MPCB for review and finalization of the same with inputs from the MPCB infrastructure team appointed by MPCB. The plan needs to highlight delivery, installation, roll-back plan, downtime requirements, resource deployments, dependencies, etc. on a time scale. Please note that since this is an upgradation of a LIVE Data Centre Network, the transition to the new setup has to be seamless and with minimal downtime, especially during the working hours of the Board.
3. Prepare a micro-level Transition plan along with testing of the same and get the same approved.
4. Prepare a "BEFORE and AFTER" layout of the Equipment Racks and get the same approved from MPCB. The Layout should optimize the power distribution per rack and ideally categorize the equipment for ease of management and cable routing.

2.2.2 Delivery of Equipment

1. Delivery of the equipment as per the Work Order / Contract. The delivery may be prioritized as per the schedule.
2. Testing of the equipment before installation and ensure replacement in case of receipt of defective equipment at site.
3. Get Delivery Acknowledgement from MPCB before the installation.

2.2.3 Installation of Equipment

1. Testing and ensuring Power Distribution as per the proposed deployment plan.
2. Installation and configuration of the Management software and other Management features for the Networking and Server, to ensure necessary proactive alerts, configuration management and health parameters are being monitored.
3. Redressing and installation of the network cables (Rack and user end) based on the revised equipment distribution plan at Head Office, Central LAB and RO's.
4. Configuration of the New 10 G Network Switches to ensure continuance of the existing VLANs.
5. Establish the connectivity of the switches with the Servers, SAN Storage, Backup Appliance and Tape Drive to ensure redundant connectivity between LAN and WAN switching.

2.2.4 Documentation

1. The Bidder is required to ensure the documentation of the entire modernised infrastructure as a part of handover exercise.
2. The documentation to include
 - a. Rack layout clearly showing the equipment being mounted
 - b. Network Switches: nomenclature, IP addresses, configurations, port mapping to Patch panels / Servers / network devices, password

It may be noted that the CoOP will be awarded only after receipt of the documentation acceptable to MPCB.

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2.2.5 Support

1. The System Integrator is to provide support for the equipment supplied for a period of THREE (3) years from the date of CoOP.
2. For Hardware: The support should be comprehensive (all parts included) and on-site. In case of any faulty components, the same should be replaced in a maximum timeframe of SIX (6) hours for DC / Core and Distribution Switching and Next Business day for Access Equipment from the time of incident being reported.
3. For Networking Support: The L1, L2 and L3 support should be made available. Support should be provided by the System Integrator. However, System Integrator should have back to back support from the OEM directly without any third party involved. The key activities in the support phase will be as follows
 - a. Detailed Management and Administration of setup at Primary site
 - b. Managing Network Policy as per current scenario.
 - c. Monitoring Network as per compliance.
 - d. Monitoring setup for any contention or fine tuning
 - i LAN Networking.
 - ii WAN Networking.
 - iii DC Networking.
 - iv Installation, Fine tuning, Patch upgrades and monitoring.
 - v Provide recommendation for fine tuning and implement the same.
 - e. Respond to alerts for anomaly behaviour in the setup and take corrective actions.
 - f. Release and reallocate resources as per application requirement.
 - g. Implement hardening and compliance policies.
 - h. Troubleshooting and fixing issues.
 - i. Provide 24 x 7 Onsite Support for the setup.

2.3 Responsibilities of MPCB

1. Facilitate access and information availability to the System Integrator (SI)
2. Acceptance of the Implementation schedule provided by SI after due review with MPCB.
3. Ensuring availability of the downtime based on the implementation schedule on reasonable notice given by the SI after consultation with MPCB
4. Ensuring data backup for the servers.
5. Ensuring support availability from the respective Vendors for the Application Software at the time of Upgradation.
6. Ensuring availability of various vendors such as Civil and Electrical Contractors, Network Contractors, Security Contractors, MPLS Service Providers, Application development partners,

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current Service Providers, FMS service providers and any other agency – internal and / or external, as may be required for the successful migration.

7. Facilitate Power Distribution from the Mains Supply to the existing UPS and from UPS to the Equipment Rack as per the required Power Distribution as proposed by SI.
8. Ensuring availability of ALL the existing licensed software (applications, database, Operating System, etc.) with their ORIGINAL Media (DVD / CD) and License / Registration codes, drivers, etc. which may be required for the implementation.
9. Issue of CoOP upon receipt of satisfactory project implementation and documentation.

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23. ANNEXURE – 3

TECHNICAL SPECIFICATIONS AND COMPLIANCE

Bidders to fill in the Compliance details and include the same in Cover-1 Technical Bid

Core / Server Farm Switch		
Sr. No.	Parameter	Specification
1	No. of Ports	Minimum 24 Ports SFP+ to be supported with minimum 2 x QSFP 40G slots with internal redundant hotswap AC PSU, front to rear airflow
2	Port performance	Minimum 10 Gbps line speed in full duplex mode
		Minimum 40 Gbps line speed in full duplex mode
		Auto-sensing 1G, 10, 40 Gbps port speeds
3	ISL Trunking	Should support Active Active Switch configurations / Trunking
4	Fabric latency	Maximum 900 ns with no contention, cut through switch with minimum 640 Gbps Full Duplex line rate operation
5	Frame size	Maximum 1500-byte payload
6	Fabric switches support	Unicast, Multicast and broadcast
7	Management	SNMP v1/v3, API, Perl, Python support
		Telnet; auditing, change management tracking, Syslog
		HTTPS, IP Filtering, LDAP, Port Binding,
		Support IP Standard, Extended and time-based ACL
		RADIUS, Role-Based Access Control (RBAC), AAA , Radius authentications
		Secure Copy (SCP), Secure RPC, SSH v2, SSL,
8	IP Features	IPv4.IPv6 Layer-2 and Layer features with RIP, OSPF, BGP, Multicast Routing VRRP or Active Active switch configuration using vendor specific or IEEE equivalent standards, all feature license to be included.
9	SAN Features	Should support Jumbo Frame, FCOE, ISCSI, DCB, feature
10	SDN / Server Virtualization Features	Should include License to enable VM visibility, Integrate with Server Virtualizations solution, support SDN
11	Diagnostics	Should support all Diagnostic Feature and function to troubleshoot the proposed setup.
12	Management Access	should support OOB Ethernet port, CLI support, Management Ethernet / RJ45 / USB port and supported using third party or vendor specific tools to manage the switch for configuration, firmware upgrade, configuration upgrades.

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Core / Server Farm Switch		
Sr. No.	Parameter	Specification
13	Accessory	To be supplied with 15M LC-LC cables for all populated ports
14	Form Factor	1 to 4 U Rack Mountable
15	Warranty	Minimum 3 (Three) Years On-site comprehensive warranty. SI must offer 24x7x365 Hardware and Software support
16	SFP, SFP+, QSFP	All relevant optics and cable to be factored as mentioned below

Distribution Switch		
Sr. No.	Parameter	Specification
1	No. of Ports	Minimum 12 Ports SFP+ to be supported with 2 x QSFP 40G slots with redundant AC PSU, front to rear airflow
2	Port performance	Minimum 10 Gbps line speed in full duplex mode
		Minimum 40 Gbps line speed in full duplex mode
		Auto-sensing 1G, 10, 40 Gbps port speeds
3	ISL Trunking	Should support Active Active Switch configurations / Trunking using 8 Ports
4	Fabric latency	microseconds latency with no contention, cut through switch with minimum 400 Gbps Full Duplex line rate operation with 320 Mpps
5	Frame size	Maximum 1500-byte payload
6	Fabric switches support	Unicast, Multicast and broadcast
7	Management	SNMP v1/v3, API, Perl, Python support
		Telnet; auditing, change management tracking, Syslog
		HTTPS, IP Filtering, LDAP, Port Binding,
		Support IP Standard, Extended and time-based ACL
		RADIUS, Role-Based Access Control (RBAC), AAA, Radius authentications
		Secure Copy (SCP), Secure RPC, SSH v2, SSL,
8	IP Features	IPv4,IPv6 Layer-2 and Layer features with RIP, OSPF, BGP, Multicast Routing VRRP or Active Active switch configuration using vendor specific or IEEE equivalent standards, all feature license to be included.
9	SAN Features	Should support Jumbo Frame, FCOE, DCB, QOS feature and port license to be included

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Distribution Switch		
Sr. No.	Parameter	Specification
10	SDN / Server Virtualization Features	Should include License to enable VM visibility, Integrate with Server Virtualizations solution, support SDN
11	Diagnostics	Should support all Diagnostic Feature and function to troubleshoot the proposed setup.
12	Management Access	should support OOB Ethernet port, CLI support, Management Ethernet / RJ45 / USB port and supported using third party or vendor specific tools to manage the switch for configuration, firmware upgrade, configuration upgrades.
13	Accessory	To be supplied with 15M LC-LC cables for all populated ports
14	Form Factor	1 to 4 U Rack Mountable
15	Warranty	Minimum 3 (Three) Years On-site comprehensive warranty. SI must offer 24x7x365 Hardware and Software support
16	SFP, SFP+, QSFP	All relevant optics and cable to be factored as mentioned below

Campus NETWORK SWITCHES – QTY as per Annexure 1 (Port requirement Diagram)		
Sr. No.	Parameter	Specifications
1	Interface Options	Enterprise class switch should have 24/48 x 10/100/1000 T Ethernet Ports + 4*10G SFP+ Ports with front to rear airflow with minimum operating temperature of 45 Degrees
		• 10G SFP+ Supported include SR, LR,
		• 1G SFP Supported include T, SX, LX
		• 1 RS232 Serial Console Port • 1 USB Port,
		The switch should be offered from the model family also having POE/POE+ switch model to mix stack later.
2	Redundancy	The switch should support MLAG, Port Channel, Stacking, PVST/RSTP/MSTP functionality from Day one
3	Latency	Maximum Latency up to 3.3 microseconds or lower
4	Architecture	Cut through architecture, Non-Blocking, Wire speed, stackable switch
		Should support USB Flash Drive, Internal Flash memory of 512 MB, DRAM of 1GB.
5	Performance	For 24 ports switch model, the switch should offer 100% Line-Rate Performance, Non-blocking architecture with 128 Gbps (Full Duplex) Non-Blocking Switching throughput with 84 Mpps forwarding rate

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Campus NETWORK SWITCHES – QTY as per Annexure 1 (Port requirement Diagram)		
Sr. No.	Parameter	Specifications
		For 48 ports switch model, the switch should offer 100% Line-Rate Performance, Non-blocking architecture with 176 Gbps (Full Duplex) Non-Blocking Switching throughput with 101 Mpps forwarding rate
6	Security	802.1x with VLAN assignment, Private VLAN edge
		RADIUS, TACACS+, HTTP/HTTPS, Wire Speed Filtering
		Should support Standard, Extended, and Time-based ACL, Port based ACLs, ACL Logging, MACs, SSH v1, v3, Secured Passwords
		RADIUS, AAA, and TACACS+ Support
		Dual Software images / Configuration
		Should support SPAN and RSPAN and Broadcast Storm Control
7	VLANs	Should support minimum 512VLANs with 4K VLAN IDs, Port-based VLAN, 802.1q tagged VLAN, Private VLAN
8	Trunking	Should support trunking protocols such as LACP, Static
		Virtual link aggregation groups to increase network bandwidth
9	Spanning Tree	Should support Multiple Spanning Tree (802.1s), Rapid Spanning Tree (802.1w), PVRST+
10	Quality of Service	Should support following QoS features such as IEEE
		802.1p, FlowControl, DiffServ, Weighted Round Robin, egress queuing
		Metering, In-profile and out-of-profile packet remarking, Rate limiting
11	High	Virtual link aggregation groups for high availability
	Availability	LACP, dedicated stacking
12	Multicast	IGMP v1, v2, v3 Snooping with 100 IGMP groups
		Port Mirroring, IGMP Querier
13	IP V6	Traceroute IPv6, Telnet IPv6, TFTP IPv6, DNS Client
		IPv6, Syslog Host IPv6, NTP Server IPv6, Management
		IPv6 Interface, Management IPv6 Default Gateway
14	Clients	CLI, Browser-based client, SSH, or Telnet, cloud-based management support
15	Standard Protocols	SNMP v1, v2c, v3, RMON, NTP Support, Accept DHCP Relay
		LLDP, 16 K MAC Table, 802.3X Flow Control
16	Warranty	3 Years Comprehensive Onsite Warranty on both
		Hardware & Software
		Supports Syslog
		Automatically update the firmware of replaced hardware parts

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Campus NETWORK SWITCHES – QTY as per Annexure 1 (Port requirement Diagram)		
Sr. No.	Parameter	Specifications
17	Accessories	LC - LC MMF cable 3 Mtrs to be factored
18	Power and Efficiency	The proposed switches should be certified as per Energy Efficient Ethernet standard, with certified AC PSU supporting AC 240V rating with lowest power consumption

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Monitoring and Management Software		
Sr. NO.	Parameter	Specification
1	Software to manage and monitor infrastructure (Server, Storage, Virtualization and Networking – WAN and LAN)	Management and Monitoring software to manage and monitor MPCB IT infrastructure.

Campus Passive Supply and Networking Installation		
Sr. No.	Parameter	Specifications
1	Patch Panels	As per requirement
2	Racks for Campus Patch Panels with cable manager	As per requirement
3	Racks for Campus Switches with cable manager	As per requirement
4	Power Supply / Sockets	As per requirement
5	Tagging and Labelling	As per requirement
6	Network Cables STP CAT5e / CAT6 or latest	As per requirement
7	Network Cables STP CAT5e / CAT6a or latest for Server DC connectivity	As per requirement
8	FC cables for Uplink of Campus Switches	As per requirement
9	FC cables for DC	As per requirement
10	Warranty	Minimum 3 (Three) Years On-site comprehensive warranty / Support. SI must offer 24x7x365 Hardware Support.

Location wise Port Requirement (Managed Switches)			
Sr. No.	Sub SR. No.	Location	Ports
1	HO - DC		
	1	HO Core Switch (HA)	As per Requirement
	2	HO Distribution Switch (HA)	As per Requirement
2	HO - CAMPUS SWITCH		
	3	HO 1st Floor	24 Ports Ethernet 1Gb
	4	HO 2nd Floor	96 Ports Ethernet 1Gb
	5	HO 3rd Floor	120 Ports Ethernet 1Gb
	6	HO 4th Floor	96 Ports Ethernet 1Gb
3	Central LAB		
	7	HO Distribution Switch (HA)	As per Requirement
	8	Ground Floor	24 Ports Ethernet 1Gb
	9	1st Floor	24 Ports Ethernet 1Gb
	10	2nd Floor	24 Ports Ethernet 1Gb
	11	3rd Floor	24 Ports Ethernet 1Gb
	12	4th Floor	24 Ports Ethernet 1Gb
	13	5th Floor	24 Ports Ethernet 1Gb
4	RO Amravati		
	14	Ground Floor	24 Ports Ethernet 1Gb
	15	1st Floor	24 Ports Ethernet 1Gb
5	RO Aurangabad		
	16	Single Floor	24 Ports Ethernet 1Gb
6	RO Chandrapur		
	17	Single Floor	24 Ports Ethernet 1Gb
7	RO Kalyan		
	18	3rd Floor	24 Ports Ethernet 1Gb

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Location wise Port Requirement (Managed Switches)			
Sr. No.	Sub SR. No.	Location	Ports
	19	4th Floor	24 Ports Ethernet 1Gb
8	RO Kolhapur		
	20	Single Floor	24 Ports Ethernet 1Gb
9	RO Nagpur		
	21	5th Floor	24 Ports Ethernet 1Gb
	22	6th Floor	24 Ports Ethernet 1Gb
10	RO Nashik		
	23	Single Floor	24 Ports Ethernet 1Gb
11	RO Navi Mumbai		
	24	Single Floor	24 Ports Ethernet 1Gb
12	RO Pune		
	25	2nd Floor	24 Ports Ethernet 1Gb
	26	3rd Floor	24 Ports Ethernet 1Gb
13	RO Raigad		
	27	Single Floor	24 Ports Ethernet 1Gb
14	RO Thane		
	28	Single Floor	24 Ports Ethernet 1Gb

Please note: This is approximate Port requirement. Vendor has to do a survey and get information of the actual port requirement for each site.

I hereby confirm that I am compliant to all the above points mentioned in Annexure 3.

Signed and Stamped

Name of Authorized Signatory:

Date:

Note: This Self Certified Annexure 3 will be part of Technical Bid Document. If not submitted or submitted without Seal and Signature will be considered non-responsive bid.

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24. ANNEXURE – 4

Price Bid Format

The bidders should strictly follow the format given below for submitting the price –bids and should submit the same on their official letter head.

Sr. No.	Description	Unit Rate Without Taxes (INR)	Taxes (INR)	Total Unit Rate (INR)	Quantity	Amount (INR)
		A	B	C=A+B	Q	D=C x Q
1	CORE INFRASTRUCTURE					
a	Core Switch					
b	Distribution Switch					
C	Campus Switching 24 Ports					
d	Campus Switching 48 Ports					
e	Monitoring and Configuration Software(s) (Console to Manage and Monitor total Network Infrastructure and Servers)					
f	Procurement of Passive components					
	Sub Total Core Infrastructure (X)					
2	IMPLEMENTATION					
A	Implementation Charges (Active) components					
B	Installation of (Passive) components					
	Sub Total Implementation Charges (Y)					
	GRAND TOTAL (Z=X+Y)					

Grand Total Amount in Words Rupees _____

Note: 1. *Grand Total is the sum of Price for ALL regions mentioned above* 2. *The prices quoted are for the Scope of Work as mentioned in Annexure 2*

3. *The prices are valid for 180 days from the date of bid.*

For and on behalf of:

Signature (Authorized Representative and Signatory of the Bidder):

Name of the Person:

Designation:

Date:

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25. ANNEXURE – 5

DETAILS FOR E-TENDER PROCEDURE

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NOTICE DETAILS

Tender Reference no.	MPCB/EIC/e-Tender < > Date: 09/03/2019
Name of Work / Item	Selection of System Integrator for Data Centre Core Switch and Networking Active and Passive Components.
Cost of tender document & Mode of Payment	₹10,000/- (Rupees Ten Thousand Only) (Non-Refundable) to be paid through Online Payment Modes I.e. Net Banking, Debit Card and Credit Card during Tender Document Download Stage.
EMD Amount & Mode of Payment	₹5,00,000/- (Rupees Five Lakhs Only) to be paid through Online Payment Modes I.e. Net Banking, Debit Card, Credit Card and NEFT/RTGS during Bid Preparation Stage.
Date, Time and Place of Pre-Bid Meeting	19th March 2019, 1500 Hrs at MPCB Conference Hall, Kalpataru Point, 4 th Floor, opp. PVR Cinema, near Sion Circle, Sion (E), Mumbai-400 022
Venue of online opening of tender	MPCB Conference Hall, Kalpataru Point, 4 th Floor, opp. PVR Cinema, near Sion Circle, Sion (East), Mumbai - 400 022
Address for Communication	EIC Section MPC Board, Kalpataru Point, 4 th Floor, opp. PVR Cinema, near Sion Circle, Sion (East), Mumbai - 400 022
Contact Telephone & Fax Numbers	Tel. No. - 022- 240 87 295, 022- 240 10437 Fax - 022- 240 87 295 Email - eic@mpcb.gov.in
e-Tendering Helpline Support: Monday-Friday: 09:00 AM - 08:00 PM Saturday - 09:00 AM - 06:00 PM	Telephone: 020 - 3018 7500 Email: support.gom@nextenders.com

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e-TENDER TIME SCHEDULE

Please Note: All bid related activities (Process) like Tender Document Download, Bid Preparation, and Bid Submission will be governed by the time schedule given under Key Dates below:

Sr. No.	Activity	Performed by	Start		Expiry	
			Date	Time	Date	Time
1	Release of Tender	Department	09-03-2019	11.00	09-03-2019	17.00
2	Tender Download	Bidders	09-03-2019	11.00	18-03-2019	17.00
3	Bid Preparation		09-03-2019	11.00	25-03-2019	17.00
4	Super hash Generation & Bid Lock	Department	26-03-2019	11.01	26-03-2019	13.00
5	Control Transfer of Bid	Bidders	26-03-2019	13.01	27-03-2019	17.00
6	Envelope 1 Opening	Department	29-03-2019	14.00	29-03-2019	17.00
7	Envelope 2 Opening		02-04-2019	11.00	02-04-2019	13.00

** Dates mentioned here, are scheduled dates for Bid Opening Activities. Any changes in dates of opening of technical and commercial bids shall be notified in 'Press Notice / Corrigendum' section on the e-Tendering sub portal of the department before opening of the same.*

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INSTRUCTIONS TO BIDDERS FOR e-Tendering

GENERAL INSTRUCTIONS:

The bidders are requested to familiarize themselves with the use of the e-Tendering portal of Government of Maharashtra well in advance

To view- Tender Notice, Detailed Time Schedule, Tender Document for this Tender and subsequently purchase the Tender Document and its supporting documents, kindly visit following e-Tendering website of **Government of Maharashtra**: <https://maharashtra.etenders.in>

The Contractors participating first time for e-Tenders on GoM e-tendering portal will have to complete the Online Registration Process for the e-Tendering portal. A link for enrollment of new bidders has been provided on <https://maharashtra.etenders.in>

All bidders interested in participating in the online e-Tendering process are required to procure Class II or Class III Digital e-Token having 2 certificates inside it, one for Signing/Verification purpose and another for Encryption/Decryption purpose. The tender should be prepared & submitted online using individual's Digital e-Token.

e-Tendering Tool Kit for Bidders (detailed Help documents, designed for bidders) has been provided on e-Tendering website in order to guide them through different stages involved during e-Tendering such as online procedure for Tender Document Purchase, Bid Preparation, Bid Submission.

Bidders will have to pay cost of Tender Document through online modes of payment such as **Net Banking, Debit Card and Credit Card** during **Tender Document Download stage**. This payment will not be accepted by the department through any offline modes such as Cash, Cheque or Demand Draft.

Similarly, Bidders will have to pay Earnest Money Deposit through online modes of payment such as **Net Banking, Debit Card, Credit Card and NEFT/RTGS** during **Bid Preparation stage**. This payment will not be accepted by the department through any offline modes such as Cash, Cheque or Demand Draft.

The interested contractors / bidders will have to make online payment (using credit card/debit card/net banking) of ₹ **1054/-** (inclusive of all taxes) per bid per tender to online service provider of e-Tendering system (Sify NexTenders) at the time of entering **Online Bid Submission** stage of the tender schedule.

If any assistance is required regarding e-Tendering (registration / upload / download) please contact GoM e-Tendering Help Desk on number: **020 – 3018 7500 (Pune Helpline)**, Email: support.gom@nextenders.com

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For a bidder, online bidding process consists of following 3 stages:

- 1. Online Tender Document Purchase and Download*
- 2. Online Bid Preparation*
- 3. Online Bid Submission*

All of 3 stages are mandatory for bidders to successfully complete Online Bidding Process.

TENDER DOCUMENT PURCHASE AND DOWNLOAD:

The tender document is uploaded / released on Government of Maharashtra, (GOM) e-tendering website <https://maharashtra.etenders.in>. Tender document and supporting documents may be purchased and downloaded from following link of Maharashtra Pollution Control Board on e-Tendering website of Government of Maharashtra, <https://allgom.maharashtra.etenders.in> by making payment through **Online Payment Modes i.e. Net Banking, Debit Card and Credit Card.**

If for any reason a bidder fails to make this payment through online modes, system won't allow the bidder to proceed further for next stage resulting in his/her elimination from Online Bidding Process.

Subsequently, bid must be prepared and submitted online ONLY as per the schedule.

The Tender form will be available online only. Tender forms will not be sold / issued manually from M.P.C. Board office

The bidders are required to download the tender document within the pre-scribed date & time mentioned in online tender schedule. After expiry of the date and time for tender document download, Department / Corporation will not be responsible for any such failure on account of bidders for not downloading the document within the schedule even though they have paid the cost of the tender to the Department / Corporation. In such case the cost of the tender paid by the bidders will not be refunded.

PREPARATION & SUBMISSION OF BIDS

Both the Bids (Technical as well as Commercial) shall have to be prepared and subsequently submitted online only. Bids not submitted online will not be entertained.

Online Bid Preparation

EARNEST MONEY DEPOSIT (EMD)

Bidders are required to pay Earnest Money Deposit (if applicable) through Online Payment modes i.e. **Net Banking, Debit Card, Credit Card and NEFT/RTGS** during Bid Preparation Stage.

This payment will not be accepted by the department through any offline modes such as Cash, Cheque or Demand Draft.

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If for any reason a bidder fails to make this payment through online modes, system won't allow the bidder to complete Bid Preparation stage resulting in his/her elimination from Online Bidding Process.

In case EMD is mandatory to all the bidders for a tender, offers made without EMD shall be rejected.

In Bid Preparation stage, bidders get access to Online Technical and Commercial Envelopes where they require uploading documents related to technical eligibility criteria and quote commercial offer for the work / item in respective online envelopes.

TECHNICAL BID

Following documents should be uploaded in Online Technical Envelope (T1) in PDF format, if required can be zipped as well and then uploaded during **Online Bid Preparation stage**.

The list of documents for Technical Envelope is as follows:

Sr. No.	List of Documents	
1	Covering Letter As per Format in EXHIBIT 1	Compulsory
2	Attested copy of Power of Attorney	Compulsory
3	Proof of Purchase of RFP	Compulsory
4	EMD as per Section 6.6.2	Compulsory
5	Certificate of incorporation / Registration and Service Tax registration certificate	Compulsory
6	CA's Certification regarding net worth of the bidder as on 31 st March 2018	Compulsory
7	Documentary Proofs as testimony for Evaluation of Technical bids as per criteria listed in Section 7.3.1	Compulsory
8	Technical Proposal as mentioned in section 7.2 section2	Compulsory
9	Covering Letter As per Format in EXHIBIT 2	Compulsory
10	Manufacturer's Authorisation Form as per EXHIBIT 3	Compulsory
11	Duly filled, signed and stamped Technical Compliance form as per Annexure - 3	Compulsory

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COMMERCIAL BID

All commercial offers must be prepared online (An online form will be provided for this purpose in Online Commercial Envelope (C1), during **Online Bid Preparation** stage).

Any bidder should not quote his offer anywhere directly or indirectly in Technical Envelope (T1), failing which the Commercial Envelope (C1) shall not be opened and his tender shall stand rejected.

Note: During Online Bid Preparation stage, bidders are allowed to make any changes or modifications in the bid data uploaded by them in Technical (T1) as well as Commercial (C1) envelope. Towards the end of Bid Preparation, once verification of EMD payment is successful, bidder completes the Bid Preparation stage by generating the Hash Values for T1 and C1. Post this, system won't allow him/her to make any further changes or modifications in the bid data.

Online Bid Submission

In this stage, bidders who have successfully completed their Bid Preparation stage are required to transfer the data, already uploaded by them during Bid Preparation stage, from their custody to department's custody.

Note: During this stage, bidders won't have any capability to make any kind of changes or editing into technical as well as commercial data.

OPENING OF BIDS:

The bids that are submitted online successfully shall be opened online as per date and time given in detailed tender schedule (if possible), through e-Tendering procedure only in the presence of bidders (if possible).

Bids shall be opened either in the presence of bidders or it's duly authorised representatives. The bidder representatives who are present shall sign a register evidencing their attendance. Only one representative per applicant shall be permitted to be present at the time of opening the tender.

TECHNICAL ENVELOPE (T1):

First of all, Technical Envelope of the tenderer will be opened online through eTendering procedure to verify its contents as per requirements.

At the time of opening of technical bid the tenderer should bring all the original documents that have been uploaded in the Online Technical Envelope (T1) so that same can be verified at the time of opening of technical bid.

If the tenderer fails to produce the original documents at the time of opening of technical bid, then the decision of the committee taken on the basis of document uploaded will be final and binding on the tenderer.

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If the various documents contained in this envelope do not meet the requirements, a note will be recorded accordingly by the tender opening authority and the said tenderer's Commercial Envelope will not be considered for further action but the same will be recorded.

Decision of the tender opening authority shall be final in this regard.

The right to accept or reject any or all tenders in part or whole without assigning any reason thereof is reserved with Tender Opening Authority and his decision(s) on the matter will be final and binding to all.

The commercial bids shall not be opened till the completion of evaluation of technical bids.

The commercial Bids of only technically qualified Bidders as mentioned above will be opened.

COMMERCIAL ENVELOPE (C1):

This envelope shall be opened online as per the date and time given in detailed tender schedule (if possible), through e-Tendering procedure only,

Note: Commercial Offer has to be entered online only. An Online Form, similar to the Commercial format given below, will be available to the bidders in Commercial Envelope (C1) during Online Bid Preparation stage where bidders would quote their offer.

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26. Final List of Documents to be uploaded Online:

The following documents should be uploaded by the bidders in the form of PDF Files in the same order as mentioned below, on the e-Tendering website during **Online Bid Preparation** stage.

Sr. No.	List of Documents	Compulsory / Additional
FOR TECHNICAL BID		
1	Covering Letter As per Format in EXHIBIT 1	Compulsory
2	Attested copy of Power of Attorney	Compulsory
3	Proof of Purchase of RFP	Compulsory
4	EMD as per Section 6.6.2	Compulsory
5	Certificate of incorporation / Registration and Service Tax registration certificate	Compulsory
6	CA's Certification regarding net worth of the bidder as on 31 st March 2018	Compulsory
7	Documentary Proofs as testimony for Evaluation of Technical bids as per criteria listed in Section 7.3.1	Compulsory
8	Technical Proposal as mentioned in section 7.2 section2	Compulsory
9	Covering Letter As per Format in EXHIBIT 2	Compulsory
10	Manufacturer's Authorisation Form as per EXHIBIT 3	Compulsory
11	Duly filled, signed and stamped Technical Compliance form as per Annexure - 3	Compulsory
FOR COMMERCIAL / PRICE BID		
1	Covering Letter As per Format in EXHIBIT 2	Compulsory
2	Price Bid in the format given in Annexure 4, duly signed and sealed	Compulsory

Note: During **Online Bid Preparation**, apart from the above-mentioned documents, if any need arises to upload additional documents in Technical Envelope, an option of '**Upload Additional Documents**' has been provided in the e-Tendering software which will be available to bidders during **Online Bid Preparation** stage