

Request for Proposal

Selection of System Integrator for Server Infrastructure and Storage Upgrade.

Maharashtra Pollution Control Board, Govt. of Maharashtra
Selection of System Integrator for Data Center Server processors and disk
Storage Upgradation

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1 DISCLAIMER

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.10.5](#) Point 3. If this office receives no intimation by the date mentioned in [Section 10.5](#) Point 3, it shall be deemed that the Bidder is satisfied that the Request for Proposal Document is complete in all respects.

2 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

- 2.1 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.
- 2.2 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.
- 2.3 MPCB reserves the right to reject any or all the Bids submitted in response to this Request for Proposal at any stage without assigning any reasons whatsoever.
- 2.4 MPCB reserves the right to change any or all the provisions of this Request for Proposal. Such changes would be intimated to all parties procuring this Request for Proposal.

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3 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
SAN	Storage Area Network
SSD	Solid State Drive
SAS	Serial Attached SCSI (Small Computer System Interface)
TB	Terabyte
GB	Gigabyte
MHz	Megahertz
GHz	Gigahertz
VM	Virtual Machine
SDS	Software Defined Storage
SD-WAN	Software Defined Wide Area Network
SDDC	Software Defined Datacentre
EOL	End of Life
EOS	End of Service

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5 DEFINITIONS

5.1 BID

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

5.2 BIDDER

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

5.3 DOCUMENT / BID DOCUMENT

This Request for Proposal Document.

5.4 PROJECT

To select an appropriate System Integrator (SI) for Data Centre Server and Storage Upgrade at HO.

5.5 REQUEST FOR PROPOSAL

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

5.6 RESPONSIVE BIDDER

Responsive Bidder is the bidder whose bid is found responsive after evaluation of the Bid as outlined in Section 11.2.

5.7 TENDER COMMITTEE

A committee consisting of MPCB Officials has been formed.

6 PROJECT CONCEPT & STRUCTURE

6.1 BACKGROUND

6.1.1 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.

6.1.2 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.

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6.1.3 Various Applications have been rolled out to various offices of the Board and the same is accessed through IT infrastructure deployed at these offices. As a part of 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 IT infrastructure within the Data Centre.

7 CURRENT INFRASTRUCTURE

- 7.1 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 on 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.
- 7.2 The details of the relevant current infrastructure are given for the convenience of the bidders at [Annexure -1](#).

8 OBJECTIVE OF THE RFP

- 8.1 The current DC 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.
- 8.2 It may be noted that the current DC which is in LIVE state needs 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 for the users.
- 8.3 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.

9 EXECUTION PERIOD

- 9.1 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 Twelve (12) weeks from the date of LoA. The System Integrator is mandated to onsite support the hardware infrastructure for THREE (3) years from the date of CoOP as per the required Service Levels.

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10 DESCRIPTION OF THE SELECTION PROCESS

10.1 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

10.1.1 Envelope 1 / Cover 1 : Technical Bid

10.1.2 Envelope 2 / Cover 2 : Price Bid.

10.2 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:

10.2.1 If Technical Bid does not conform to the minimum eligibility Criteria mentioned in Clause 16.1

10.2.2 If online EMD not paid, as stipulated in the RFP

10.2.3 The proposal does not include sufficient information to be evaluated and/or is not in the formats specified in the RFP.

10.2.4 The proposal does not conform to the terms and conditions mentioned in the RFP.

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

a. 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-16](#)

b. STEP 2 (COVER 2) – PRICE BID AND PRICE BID EVALUATION

a. 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-16.9](#) The format for the Price Bid is specified in BoQ and [Annexure - 4](#)

b. A list of Bidders based on the results of the evaluation, as detailed in [Section-16.9](#) of this document, would be presented. The MPCB is bound to award a LoA to the lowest price bidder.

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- 10.3 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.
- 10.4 SIGNING OF ORDER ACCEPTANCE
The Successful Bidder would sign a copy of the Purchase / Work Order as a token of acceptance of the same.

10.5 SCHEDULE OF ACTIVITIES

Sr. No.	ACTIVITY	Date
1.	Date of Start of Sale of RFP document	02-12-2020
2.	Date of End of Sale of RFP document	10-12-2020
3.	Last date for receipt of requests for clarifications	11-12-2020
4.	Pre-bid Conference	14-12-2020
6.	Time and Date of Opening of Technical Bid (Cover-1)	23-12-2020
7.	Presentation by the bidders on their project implementation and support methodology with proposed schedule of activities	To be announced Later
8.	Opening of Commercial Bid (Cover-2)	To be announced Later

Note:

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

11 PROCEDURES TO BE FOLLOWED

- 11.1 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

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- 11.2 All queries that are received on or before the date mentioned in [Section 10.5](#) Point 3 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.
- 11.3 Request for clarifications received from prospective bidders who have not paid the fee for the RFP document as defined in [Section-14](#), will not be answered. Such bidders will not be allowed to attend the pre bid meeting and to bid.
- 11.4 Request for clarifications received after the last date mentioned in [Section 10.5](#) Point 3, may not be addressed. Decision of the Board in the matter will be final.
- 11.5 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)

- 11.6 SUBMISSION OF THE BID
- 11.6.1 Cover 1 – Technical Bid
The information to be submitted by the Bidders as Cover 1 of their Bids is described [Annexure 5](#).
- 11.6.2 Cover 2 – Price Bid
The Information to be submitted by the Bidders in the Price Bid (Cover 2) is described in given Excel BoQ format and [Annexure 4](#).

The Bidders are requested to follow the Bid submission process which is detailed in [Annexure 5](#) as per the schedule elaborated in [Section-32.2](#).

12 INSTRUCTIONS TO BIDDERS

All Bidders should note the following:

- 12.1 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.
- 12.2 Strict adherence to formats, wherever specified, is required. Non-adherence to formats may be a ground for declaring the Bid non-responsive.

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- 12.3 All communication and information should be provided in writing and in the English language only.
- 12.4 The metric system shall be followed for units.
- 12.5 The price quotations for the bid should be denominated in Indian Rupees.
- 12.6 All communication and information provided should be legible, and wherever the information is given in figures, the same should also be mentioned in words.
- 12.7 Arithmetical errors will be rectified as follows –
 - 12.7.1 If there is a discrepancy between the unit price and the total price that is obtained by multiplying quantities, the unit price will prevail
 - 12.7.2 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.
 - 12.7.3 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.
- 12.8 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.
- 12.9 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.
- 12.10 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”.
- 12.11 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.

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- 12.12 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.
- 12.13 MPCB reserves the right to reject any or all the Bids without assigning any reason whatsoever
- 12.14 Conditional bids may be summarily rejected.
- 12.15 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.
- 12.16 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 mistakes may be treated as an exception at the sole discretion of MPCB and if MPCB is adequately satisfied.
- 12.17 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.

13 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.

14 FEES AND DEPOSITS TO BE PAID BY THE BIDDERS

- 14.1 Fees for Request for Proposal (RFP) document
The RFP can be purchased by making a payment (non-refundable) of **₹5,000/-** (Rupees Five-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.

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14.2 Earnest Money Deposit (EMD)

Bidders are required to submit an Earnest Money deposit (EMD) online for an amount of ₹2,00,000/- (Rupees Two-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.

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

14.2.1.1 If the Bidder withdraws his Bid at any time during the stipulated period of Bid validity as per [Section-10.5](#) and [Section-13](#) (or as may be extended).

14.2.1.2 If the Bidder, for the period of Bid validity:

14.2.1.2.1 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

14.2.1.2.2 Fails or refuses to execute the LoA (in the event of the award of the Project to him) and/or

14.2.1.2.3 Fails or refuses to furnish the Service Performance Guarantee within the stipulated time

14.2.1.2.4 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.

14.2.2 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.

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

14.2.4 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.

14.2.5 EMD of the unsuccessful bidders will be returned after award of contract to the successful bidder.

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15 SUBMISSION OF TECHNICAL BID: COVER - 1

15.1 CRITERIA FOR MINIMUM ELIGIBILITY AND BID RESPONSIVENESS:

15.1.1 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.

15.1.1.1 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.

15.1.1.2 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 2020.

15.1.1.3 The bidder must be and ISO 9001 certified having a Valid Certificate on the date of bidding

15.1.1.4 The Bidder should be compliant to the Technical specifications given in [Annexure 3](#)

15.1.1.5 The Bidder should have officially purchased the RFP document from MPCB office by paying the necessary fees.

15.1.1.6 The Bidder should submit the EMD as stipulated.

15.1.1.7 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 Twenty-Five-Lakhs) and above.

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15.2 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	<ol style="list-style-type: none"> 1. Covering Letter as per the format specified in EXHIBIT 1 2. Attested copy of Power of Attorney 3. EMD as per Section-14.2 4. Certificate of incorporation / registration 5. CA's certificate about the Net worth as of 31st March 2020 6. Self-Certified Compliance Certificate as per Annexure 3.
Section 2	<ol style="list-style-type: none"> 1. Documentary Proofs as testimony for Evaluation of Technical bids as per criteria listed in Section-16.5 & Section-16.6 2. Manufacturer's Authorization Form in the prescribed format as mentioned in Exhibit 3 3. Technical proposal highlighting 4. Company profile 5. Proposed methodology to execute the project 6. Resource availability with their skill sets and deployment plan for MPCB

16 Submission of TECHNICAL BID: EVALUATION CRITERIA & PROCESS

- 16.1 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.
- 16.2 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.
- 16.3 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.
- 16.4 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.

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16.5 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	Maximum 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 2020			Certificate from CA
	At least ₹ 15 Cr but ≤ 30.00 Cr.	2		
	> ₹ 30 Cr but ≤ 50.00 Cr.	5		
	> ₹ 50.00 crores	10		
2	OEM Relationship		5	
A	Partner with OEM			Valid OEM Certificate need to be provided. Only One Applicable.
	Authorized / Premium / Silver Partner with OEM	1		
	Gold Partner with OEM	2		
	Platinum Partner with OEM	5		
3	Past Performance		35	
A	Orders executed and completed for supply and commissioning of Servers (HCI/Rack/Tower/ Blade) (And/Or) Virtualization in PSU / State or Central Government Organization in last 5 years	5		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 Two different orders of Fifty Lacs cannot be combined and considered as One Order of One Crore. Applicable for other slabs in section B.
	Orders = 2	3		
	Orders ≥ 3	5		
B	Order Value executed and completed for supply and commissioning of Servers (HCI/Rack/Tower/ Blade) (And/Or) Virtualization in PSU / State or Central Government Organization comprising of the following:	15		
	Two Orders each value of INR 50,00,000/- (Rupee Fifty lacs)	5		
	One Orders of value of INR 1,00,00,000/- (Rupees One Crore)	10		
	One Orders of value of INR 1,50,00,000/- (Rupees One Crore Fifty lacs)	15		
C	Orders executed and completed for supply and commissioning of at least any 2 products from of Servers (HCI/Rack/Tower/ Blade) / Storage / Virtualization Solution in any of the State Government Organization/ PSU/ Central Government customer.	15		

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	Orders = 2	5		
	Orders = 5	10		
	Orders = 7 or more	15		
4	Organisational Capabilities		5	
a	Bidding organisation has a valid ISO 27001 Certification, as on the date of bidding	2		Self-attested copy of the valid ISO certificate.
B	Bidding organisation has a valid ISO 20000 Certification, as on the date of bidding.	3		
5	Certified Professionals on Bidding Company's Pay Roll		20	
a	5 Server Certified Professionals	5		Certificates Need to be submitted with proper validity. Need to provide letter from HR
b	5 Storage certified Professionals	5		
c	5 virtualization Certified Professionals	5		
d	5 Windows / Linux Certified Professionals.	5		
6	Presentation on Implementation Methodology		25	Write-up of the plan and actual presentation to be included in the Technical Bid
Total Marks			100	

Each responsive Bid will be attributed a **technical score denoted by symbol "S(t)"**.
The technical score shall be out of a maximum of 100 marks

16.5.1 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.

16.5.2 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.

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16.6 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.

16.6.1 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	Workflow Diagram	3
6	Value additions	5
	Total	25

16.7 PAYMENT TERMS

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

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

16.7.2.1 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.

16.7.2.2 Payment will be made in the following stages.

Sr. No.	Stage	Percentage Relevance	Percentage payable
1	Supply of Material and Licenses after receipt of PBG.	Total (X) of Sr. No. 1 (Infrastructure) of Section 31.1 , Price Bid Format, Server and License Cost.	70%
2	Completion of Installation of work process.	Total (Y) of Sr. No. 2 (Implementation) of Section 31.1 , Price Bid Format, Implementation and Installation Charges.	70%
3	30 Days after Issue of CoOP / handover of Documentation and training.	Sr. No. 3 (Grand Total) of Section 31.1 , Price Bid Format.	30%

Note: 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.

Taxes as applicable by State / Central Government. Any change in taxes will be borne by the board.

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16.8 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.

16.9 EVALUATION OF PRICE BID: COVER 2

16.9.1 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.

16.9.2 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.

The evaluation will be carried out if Price bids are complete and computationally correct. For the purpose of evaluation, only the Grand Total Price will be considered. Lowest Price bid (denoted by symbol "P (m)") will be allotted a Price score of 100 marks. The Price score will be denoted by the symbol "S (p)". The Price score of other bidders will be computed by measuring the respective Price bids against the lowest bid. These Price scores will be computed as: $S(p) = 100 * (P (m) / P)$ where P is the Price bid of the bidder whose Price score is being calculated. The Price score shall be out of a maximum of 100 marks.

16.9.3 Computing the Final Score

The composite score is a weighted average of the Technical and Price Scores. The weightages of the Technical vis-à-vis the Price score is 0.70 of the Technical score and 0.30 of the Price score. The composite score (S) will be derived using following formula:

$$S = (S(t) * 0.70) + (S (p) * 0.30).$$

Thus, the composite score shall be out of a maximum of 100 marks. The responsive bidders will be ranked in descending order according to the composite score as calculated based on the above formula. The highest-ranking vendor as per the composite score will be selected.

However, in order to ensure that MPCB gets best solution in technical terms, MPCB reserves the right to enter into negotiation with bidder having highest technical score and place order with this bidder at a suitable price.

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16.9.4 AWARD CRITERIA

Final choice of MPCB to award this project to a suitable bidder to execute this project shall be made on the basis of composite scoring arrived as per formula mentioned above.

16.9.5 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.

17 INDEMNIFICATION

17.1 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.

18 ASSIGNABILITY

18.1 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.

19 CONFIDENTIALITY

19.1 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.

19.2 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.

20 CORRUPT & FRAUDULENT PRACTICES

20.1 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

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20.1.1 "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.

20.1.2 "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.

21 TERMINATION OF CONTRACT

21.1 Termination for Default

21.1.1 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.

21.1.2 The System Integrator in the judgment of MPCB has made any misrepresentation of facts and / or engaged in corrupt, fraudulent practices.

21.1.3 MPCB shall afford an opportunity to the System Integrator to represent his case before termination of the agreement.

21.1.4 The System Integrator fails to complete the project within the given time frame as mentioned in [Section-10](#) of this RFP.

21.1.5 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.

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21.2 Termination for Insolvency

21.2.1 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.

22 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.

23 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 its 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 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.

24 LEGAL JURISDICTION

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

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EXHIBIT – 1

25 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 Center Server processors and disk storage Upgradation

Please find enclosed one (1) original + one (1) copies of our Bid for “**Selection of System Integrator for Data Center Server processors and disk storage Upgradation**” in response to the Request for Proposal (RFP) Document issued by **MPCB** dated _____

We hereby confirm the following:

The Bid is being submitted by (*name of the Bidder*) who is the Bidder in accordance with the conditions stipulated in the RFP.

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**.

We have paid the EMD online as per the RFP terms.

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.

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:

(Authorized Representative and Signatory)

Name of the Person:

Designation:

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EXHIBIT – 2

26 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 Center Server processors and disk storage Upgradation

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 BoQ and **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

27 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.

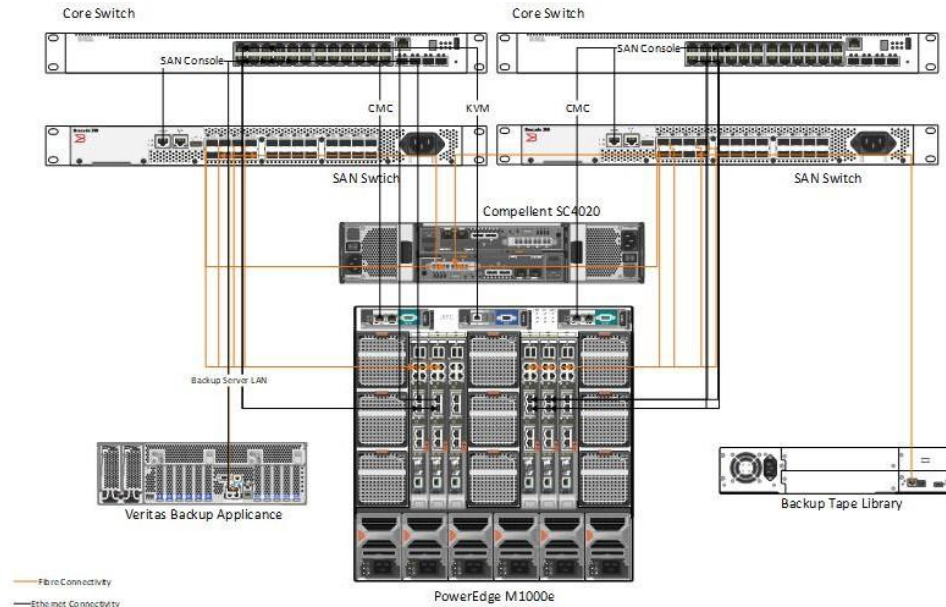
Name
In the capacity of

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

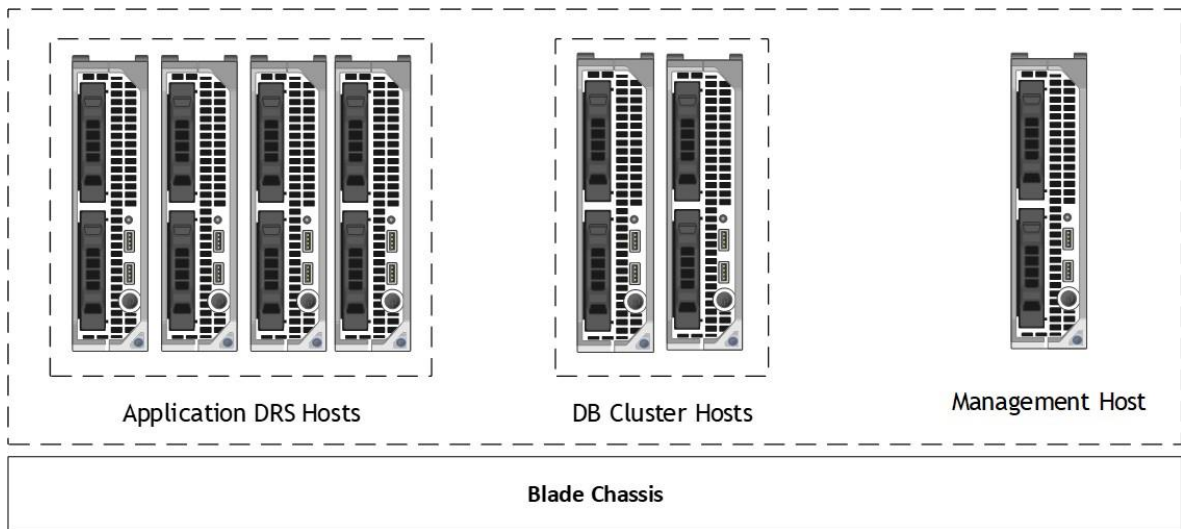
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28 ANNEXURE – 1

28.1 CURRENT INFRASTRUCTURE DETAILS



DC Connectivity Diagram



Existing VMWare Infrastructure

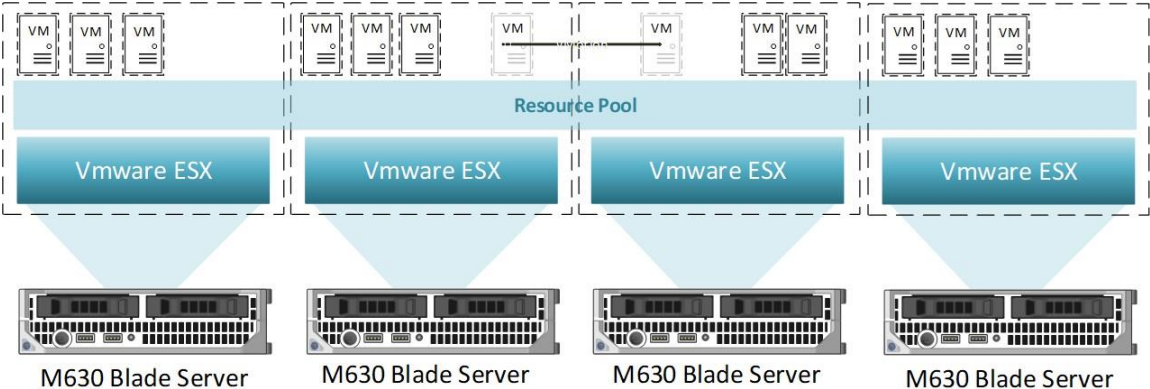
Both Application and Database Clusters are configured using VMWare DRS which checks the health of the hardware hosting the virtual servers and in case of any physical failure automatically alerts about the same and moves the Virtual Server to a safe / healthy server in the cluster.

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Dell Blade Chassis M1000e

The current infrastructure is configured using a Dell M100e Blade Chassis which can accommodate 16 Half Heighted Blade servers.



Existing VMware Configuration

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29 ANNEXURE – 2

- 29.1 Proposed Upgrade Solution Design and Scope of Work
MPCB proposes to upgrade below components to move towards a next generation, Expandable, Secured and totally software driven Solution. Which is required to maintain and support its crucial applications
- 29.1.1 VMWare Components
- 29.1.1.1 Add Four (4) Numbers of VMware Cloud Foundation 4 Starter (Per CPU) edition latest version to existing licenses.
- 29.1.1.2 Add One (1) Number of VMWare VCenter Server Standard for VSphere 7 (Per Instance)
- 29.1.1.3 One (1) year Technical Support. 24 x 7.
- 29.1.2 Dell Components
- 29.1.3 Four (4) numbers new Dell Physical Servers with below configuration to be delivered for storage and Compute Expansion.
- 29.1.3.1 Processor: 2 x Intel Xeon Processor, 24 Core 2.2 GHz Intel Cascade lake processor or above / Latest.
- 29.1.3.2 Chipset: Intel C621 or Latest.
- 29.1.3.3 RAM: 384 GB DDR4 ECC RAM (Maximum 32 GB Modules Each @ 2999 MHz)
- 29.1.3.4 Hard Disk Drive: 2 x 480 2 Rais 1 BOSS or SD CARD RDNT 64GB x 2 (VMware OS).
2 x 800 GB SSD SAS Write Intensive.
10 x 2.4 TB 10K SAS Drives
- Note: Total usable Space available over vSAN must be (Twenty) 30TB.**
- 29.2 System Architecture
- 29.2.1 The new system architecture must remain same. The change will be four new servers added to the virtual Environment.
- 29.2.2 The increased compute requirement must be catered by the same servers.
- 29.2.3 The space requirement must be catered by the Hard Drives in the new servers using vSAN.
- 29.2.4 The new environment must be capable of upgrading to a Hybrid environment in future by adding needed licenses at that period. The infrastructure must be able move with security and policies between Public Cloud and On-Premise Private Cloud by using Software driven architecture.

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29.3 SCOPE OF WORK

29.3.1 Stakeholders and their responsibilities

- 29.3.1.1 There are TWO (2) stakeholders in the project viz. MPCB and System Integrator (SI). Broad roles of each of the stakeholder is mentioned below.
- 29.3.1.2 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.
- 29.3.1.3 The System Integrator (SI) is responsible to upgrade the current infrastructure of the MPCB Data Centre (Servers and VMWare Licensing) from existing setup to an upgraded 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.
- 29.3.1.4 The SI needs to do a survey with MPCB designated Staff (joint Survey between MPCB and SI) of all the equipment present in the datacentre and provide us a report on upgrade. The SI should ensure the new virtual infrastructure must be in an optimal working state at Location.
- 29.3.1.5 The System Integrator is mandated to ensure a seamless migration to the upgraded 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 applications of MPCB are in running state, for operations and by providing printed copy of the test results.
- 29.3.1.6 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.

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29.3.1.7 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.

29.3.2 Responsibilities of the System Integrator

29.3.2.1 Preparation

29.3.2.1.1 Understand the current infrastructure setup of MPCB Data Centre along with layout, configurations and working.

29.3.2.1.2 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 must be seamless and with minimal downtime, especially during the working hours of the Board.

29.3.2.1.3 Prepare a micro-level Transition plan along with testing of the same and get the same approved.

29.3.2.1.4 Training MPCB network / Enterprise team for Provisioning virtual Infrastructure as per MPCB's future requirement, Monitoring and provide 1st level of support for any issues

29.3.2.1.5 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.

29.3.2.1.6 The SI must make sure there is no or minimal / approved downtime while implementing the solution.

29.3.2.2 Delivery of Equipment

29.3.2.2.1 Delivery of the equipment as per the Work Order / Contract. The delivery may be prioritized as per the schedule.

29.3.2.2.2 Testing of the equipment before installation and ensure replacement in case of receipt of defective equipment at site.

29.3.2.2.3 Get Delivery Acknowledgement from MPCB before the installation.

29.3.2.3 Installation of Equipment

29.3.2.3.1 Testing and ensuring Power Distribution as per the proposed deployment plan.

29.3.2.3.2 Installation and configuration of the Management software and other Management features for the Servers, Chassis and Virtual Environment to ensure necessary proactive alerts, configuration management and health parameters are being monitored.

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29.3.2.3.3 Establish the connectivity with the Servers, SAN Storage, Backup Appliance and Tape Drive to ensure HA and Backup continue as in existing manner.

29.3.2.4 Documentation

29.3.2.4.1 The Bidder is required to ensure the documentation of the entire modernised infrastructure as a part of handover exercise.

29.3.2.4.2 The documentation to include:

29.3.2.4.2.1 Rack layout clearly showing the equipment being mounted

29.3.2.4.2.2 IP addresses, Configuration information, Servers information including support matrix, escalation, and credentials if any.

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

29.3.2.5 Support

29.3.2.5.1 The System Integrator is to provide support for the Hardware equipment supplied for a period of THREE (3) years from the date of CoOP.

29.3.2.5.1.1 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 from the time of incident being reported.

29.3.2.5.1.2 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.

29.3.2.5.2 The key activities in the support phase will be as follows

29.3.2.5.2.1 Detailed Management and Administration of setup at the site

29.3.2.5.2.2 Monitoring setup for any contention or fine tuning of DC Server and VMWare Infrastructure.

29.3.2.5.2.3 Installation, Fine tuning, Patch upgrades and monitoring.

29.3.2.5.2.4 Provide recommendation for fine tuning and implement the same.

29.3.2.5.2.5 Respond to alerts for anomaly behaviour in the setup and take corrective actions.

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29.3.2.5.2.6 Release and reallocate resources as per application requirement.

29.3.2.5.2.7 Implement hardening and compliance policies.

29.3.2.5.2.8 Troubleshooting and fixing issues.

29.3.2.5.2.9 Provide 24 x 7 Onsite Support for the setup.

29.3.3 Responsibilities of MPCB

29.3.3.1 Facilitate access and information availability to the System Integrator (SI)

29.3.3.2 Acceptance of the Implementation schedule provided by SI after due review with MPCB.

29.3.3.3 Ensuring availability of the downtime based on the implementation schedule on reasonable notice given by the SI after consultation with MPCB

29.3.3.4 Ensuring data backup for the servers.

29.3.3.5 Ensuring support availability from the respective Vendors for the Application Software at the time of Upgradation.

29.3.3.6 Ensuring availability of various vendors such as Civil and Electrical Contractors, Network Contractors, Security Contractors, MPLS Service Providers, Application development partners, current Service Providers, FMS service providers and any other agency – internal and / or external, as may be required for the successful migration.

29.3.3.7 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.

29.3.3.8 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.

29.3.3.9 Issue of CoOP upon receipt of satisfactory project implementation and documentation.

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30 ANNEXURE – 3

30.1 TECHNICAL SPECIFICATIONS AND COMPLIANCE

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

30.1.1 Hardware Technical Specification

Server Spec - VSAN - Total 4 Node	
Make	Description
Model	
General	The proposed Server solution should be purely software-based and should not be dependent on any hardware OEM make and model. The proposed Server solution should be able to run on any compatible x86 hardware and should not be restricted to run on any particular Hardware OEM only. Server nodes mean the nodes which contribute to all 3 viz. compute, memory, and capacity.
Processor	2 x Intel Xeon Processor, 24 Core 2.2 GHz Intel Cascade lake processor or latest
Chipset	Intel C621 - Latest
Internal interconnect	10.4 GT/s OR Higher
Memory	Server should support 24 DIMMS slots, Configures with 384GB (32GB x 12 DIMMS) 2999MHz ECC
Scalability	<p>a) Server solution shall be proposed on Hybrid Nodes. The solution should be configurable, scalable (scale up and scale out) with High availability, Enterprise Storage Performance, Enterprise Storage Efficiency capabilities should be delivered into the proposed infrastructure solution.</p> <p>b) The solution shall have the capability of scale-up (by adding disks) & scale-out (by adding nodes) both of these scalability natively available, non-disruptively so that there is no impact and disruption to the workloads that are running onto the VMs.</p> <p>c) The servers being provided for virtualization solution should have at least 50% disk scalability within Server nodes to populate additional drives in the future to increase capacity without adding any servers and without any software license impact to MPCB. The minimum disk slots per server should be 24-slots Hot Swappable, with a minimum 50% of disk slots available</p>

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Server Spec - VSAN - Total 4 Node	
Make	Description
Model	
	on server to be remained free from day-1 for future scalability PER NODE
Internal HDD Capacity	a) Internal flash solution should be supplied with a minimum of 30 TB usable capacity on Hybrid drives. b) Solution shall be proposed by using minimum 2 x 800GB SAS SSD Write Intensive drives of High Performance and Enterprise High Endurance for Caching and maximum 10 x 2.4 TB SAS Drives (SAS based only) drives with 12 Gbps/2.5 inches Hot Plug drives with one node failure consideration. The solution should support data copies to be stored in different nodes and availability in case of any disk/node failure. Bidder to mention sizing calculation for 30TB usable capacity with the number of disks after considering overheads, 1 node failure, and re-building scenarios.
Boot Optimized Storage - OS	Dedicated for Operating System Redundant SD Card 64GB Flash or Hardware Raid 1 - 480GB SSD M.2 SSD x 2
RAID Controllers	12 Gbps RAID Controller pass-thru controller for Software-defined storage - (Certified for VMWare VSAN)
Ethernet	2 Nos of 1 Gigabit Ethernet ports and 10G Base-T Dual Port x 2 and (Require Card Level redundancy)
FC	16Gb FC HBA Dual Port x 1
Slots	Up to 5 PCIe Gen3 slots
Interface	Minimum: 1 Serial, 1 Graphic, 3 USB Ports or higher
Power Supply	The server should be provided with Redundant hot-swappable Power supplies. The Power supplies should be FCC class A certified
FAN	The server should have redundant fully populated Hot-swap fans
Optical Drive	DVD RW. The supplied DVD Drive may be internal or external with all necessary cables and accessories
Form Factor	2U Rack-mountable with rack mount kit and rails
OS Support	Microsoft Windows Server
	Canonical Ubuntu Server edition
	Red Hat Enterprise Linux (RHEL)

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Server Spec - VSAN - Total 4 Node	
Make	Description
Model	
	SUSE Linux Enterprise Server (SLES)
	VMware
	Citrix XenServer
Security	TPM 1.2/2.0 optional, Certified signed firmware, Hardware/Security root of trust, Secure Boot, System Lockdown, System Erase
Remote Management capabilities	It shall be possible to manage the server hardware and software components remotely web GUI
	It shall be possible to power on/off and boot the system remotely;
	management log;
	The system should integrate with Nagios
Server Management Software	The Systems Management software should provide Role-based security. Should provide Pre-failure warning for –
	• CPU
	• Memory
	• HDD.
Server Power Supply	HOTPLUG redundant AC Power supplies as per Power calculation
Support	3 Years Support + 3 Months Additional Warranty from OEM + 3 Years Keep Your HDD Support.

30.1.2 VMWare Virtualization Specification

Sr. No.	Technical Specifications
1	The solution should be highly programmable through APIs integration from a central management point and can be integrated with major industry software management / cloud tools to automate end users' service requests.
2	The solution should provide distributed routing so that routing between Virtual Machines with different IP subnets can be done in the logical space without traffic going out to the physical router thus reducing number of hops

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Sr. No.	Technical Specifications
3	Provisioning of virtual/software defined network services should be possible irrespective of make and topology underlying physical network switches and routers.
4	The SDN solution should be capable of supporting current switching provider OEM Dell.
5	The solution should have capability to extend overlay-based network (VXLAN/ Geneve) to a traditional VLAN based network so that an application can seamlessly run across either of the networks without requiring an IP change.
6	The solution should support multi-tenancy and should have inbuilt NAT functionality so that overlapping IP addresses can be used across multiple tenants.
7	The Solution should offer a centrally managed distributed stateful firewall to provide micro-segmentation for the environment and this firewall should be integrated within the hypervisor.
8	The Security policies must follow the VM in the event of migration (i.e. vMotion) within the datacentre
9	The distributed firewall should be embedded in-kernel in vSphere host architecture and should provide 15 Gbps or better performance per host
10	The solution should provide a stateful firewall with capability of defining security policies on constructs such as IP address, VM names, vCenter objects and tags, active directory groups, Security tags etc
11	The solution should offer Layer-2 VPN allows you to extend your datacentre by allowing virtual machines to retain network connectivity across geographical boundaries.
12	The solution should provide inbuilt L2VPN and L3VPN to allow for secure extension to multiple small ROBO sites.
13	The Solution should provide an integrated server load balancer to provide the load balancing functions in a virtual form factor.
14	The solution should integrate with industry-leading solutions for antivirus, malware, intrusion prevention, and next-gen security services.
15	The solution should offer extending Layer-2 overlay across multiple sites, so that same subnet is available across these sites for configuring virtual machines.

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Sr. No.	Technical Specifications
16	The solution should provide option for securing virtual machines with offloaded anti-malware and HIPS solutions without the requirement of agents deployed inside the virtual machine by integration with leading 3rd party anti-malware/HIPS solutions.
17	The security policies must be tied to the application, which means whenever any application is moved from one server to another, even between different subnets, and across multiple sites, the security policies should follow the application and there should be no need to redefine the security policies for the application at the new location. Also, when the application is deleted, all the security policies related to the application should also be removed.
18	The solution should provide an integrated networking solution (CNI implementations) as well as provide advance turnkey container networking services at Layer 2 through 7 such as DNAT/SNAT, DHCP, Load Balancers (L4 and L7) and firewall in addition to switching and routing (North-South and East-West)
19	The solution should support Routable Pods in addition to NAT'd Pods. The IP addresses of some or all Pods in a network should remain unchanged while making an egress connection outside of the Kubernetes Cluster.
20	Solution Should implement the Kubernetes APIs i.e. 'NetworkPolicy', 'Ingress' and 'Load Balancer' constructs to support Distributed Firewalling, Pod level micro-segmentation and access to Service.
21	The solution should support reduction in Recovery Time Objective by allowing the virtual machines to retain the same IP address after migration from DC to DR, the default gateway router should be stretched across datacentres, and also the firewall policies should also be applied across DC & DR.
22	The solution should integrate with Kubernetes to provide app-deployment automation via cloud-native L4 Objects (Kubernetes Services)
23	The solution should automatically track backend Pod lifecycle changes (deletion and recreation of application Pods) and update the Load balancer pool appropriately without user intervention.
24	The solution should support auto scale out and scale in functionality so that when traffic load increases, required load balancer instances are added or deleted on demand.

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Sr. No.	Technical Specifications
25	The solution should have capability to provide stateful micro-segmentation for diverse workloads covering virtual machines, containers, and bare metal servers from a single console.

30.1.3 Hyper Converged Infrastructure Specification

Sr. No.	HCI Specifications
1	The proposed SDS solution should support a Ready-Node based solution. The underlying Server hardware OEM should be Leader as per Gartner Magic Quadrant for Modular Servers report.
2	The proposed solution must support latest x86 server based on latest Intel Cascade lake generation CPU from Day 1. The proposed solution should support mixing of SDS nodes from different hardware vendors in the same cluster. SDS nodes means the nodes which contribute to all 3 viz. compute, memory, and capacity/storage. In case of appliance, the HCI solution should come Factory Installed with various software including Software Defined Storage and hypervisor. SDS should NOT be top-up or add-on software license bundled on generic x86 server. It should be an integral part of appliance.
3	Nodes Required (DC End): 4 Nodes (including failover node) Processor: 2 x Intel Xeon Processor, 24 Core 2.2 GHz Intel Cascade lake processor
4	The hardware vendor has to ensure that the hardware i.e. Rack servers being proposed as part of the solution are certified / tested by Software Defined Storage OEM. Supporting document of the hardware, drives and individual components being compatible with the Software Defined Storage needs to be provided
5	The solution should have the capability to use Software Defined Networking.
6	The proposed SDS software licenses should not have any dependence on the underlying hardware also SDS licenses should be transferrable to hardware from any vendor in case of hardware EOL & EOS or non-availability. Adding of Memory & Disks should not incur any additional software licenses.
7	The solution should provide a management console for management HCI environment including virtualized platform as well as SDS environment
8	The proposed solution should support both All Flash & Hybrid configuration with the same software license from day one.
9	The SDS solution shall allow delivery of enterprise-class storage services without dependence on a separate Storage Area Network (SAN) & associated component such as SAN Switches & HBAs.

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Sr. No.	HCI Specifications
10	The proposed solution should be capable to connect to FC SAN for VM migration and reusing existing Storage natively using FC HBA (if required)
11	The proposed SDS should be embedded within the hypervisor kernel itself managed by existing vCenter Server running in MPCB Datacentre.
12	The solution should provide RPO of 5 minutes and RTO of 2 hours when VMs are switched from primary site to future Cloud DR site and vice versa. This would include activities such as Failing over the VMs to DR site, customizing the IP address of the VMs, Bringing up the VMs and application services running on VMs in required sequence at DR. Bandwidth required to be provided between the sites to achieve this RPO is to be clearly mentioned by Bidder. The proposed SDS solution should use VM based replication to asynchronously replicate VMs across both the traditional and software defined storage sites based on configurable schedules.
13	Proposed solution should protect up to 1 Node failure scenarios in the cluster from day 1. The solution should also be capable of protecting 3 nodes failure scenario.
14	The solution should have QoS for IOPS at virtual machines and virtual disk level to provide granularity control to MPCB. The SDS solution should have visibility on the virtual disk to physical disk mapping for easier fault isolation and monitoring.
15	The nodes should be capable to connect over 10G/25G IP connectivity. Minimum 4x10G port per server node must be proposed. There should be no dependency on any proprietary or specialized interconnects. The bidder should provision compatible TOR switch if required with redundancy to ensure connectivity of all nodes via TOR.
16	The proposed solution should provide framework to set storage and data policies like erasure coding, mirroring, fault tolerance , capacity reservation, cache reservation, IOPs on a per-VM & per virtual disk basis and should also allow changes to these policies on the fly without restart of virtual machines.
17	The enabling and disabling of storage services like deduplication, compression, & erasure coding should be easily available in GUI.
18	The solution shall provide scale-up (by adding disks), scale-out (by adding nodes) and Scale-down (removal of node from cluster) architecture with no disruption to the workloads already running on the platform
19	The solution should support checksum of data to ensure data integrity & to enable automatic detection and resolution of silent disk errors
20	Software Defined Storage Hardware should be with 3 years onsite warranty.
21	The bidder shall propose support/subscription services from the OEM with unlimited number of support requests, remote support, access to product updates/upgrades and 24x7 support with 30 mins response time for Severity 1 issues. The bidder shall

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Sr. No.	HCI Specifications
	propose direct OEM support for proposed products with unlimited number of incidents
22	The proposed solution should be sized for 30TB of usable capacity for MPCB, without considering any space efficiencies like Deduplication and Compression.
23	The proposed solution should have minimum 4-Nodes for complete data availability including HA.
24	The proposed solution should have single dashboard management for operations and maintenance
25	The proposed SDS solution should be provided with industry standard hypervisors as per the latest Gartner report of x86 hypervisors

Please note:

- a) *The upgraded usable capacity of the new virtual Storage must be at least **30 TB** or above. The storage must provide high performance throughput in relation to the existing and new proposed Virtual Environment better or equivalent to performance provided by Existing Dell Storage.*
- b) *The existing Dell Storage must remain part of the virtual environment along with vSAN.*
- c) *The bidder needs to inspect the current environment and propose if any additional components are required apart from above list.*

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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31 ANNEXURE – 4

31.1 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)	Quantity	Total Unit Rate (INR)	Taxes (INR)	Amount (INR)
		A	B	C=A x B	D	E=C + D
1	INFRASTRUCTURE					
a	Servers		4			
b	VMWare License Cost		8			
c	VMWare Support Cost		8			
X	Sub Total Core Infrastructure (X)					
2	IMPLEMENTATION					
a	Implementation Charges (Active) components					
b	Installation of (Passive) components (If Any)					
Y	Sub Total Implementation Charges (Y)					
3	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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32 ANNEXURE – 5

32.1 Details for E-Tender Process
 Notice Details

Tender Reference no.	MPCB/EIC/e-Tender:201201-FTS-0112 Date: 01/12/2020
Name of Work / Item	Selection of System Integrator for Data Center Server processors and disk Storage Upgradation
Cost of tender document & Mode of Payment	₹5,000/- (Rupees Five-Thousand-Only) (Non-Refundable) to be paid through Online Payment Net Banking only during Tender Document Download Stage.
EMD Amount & Mode of Payment	₹2,00,000/- (Rupees Two-Lakhs-Only) to be paid through Online Payment Modes I.e. Net Banking only during Bid Preparation Stage.
Date, Time, and Place of Pre-Bid Meeting	26 th November 2020, 1100 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:	24 X 7 Help Desk Toll Free No.1800 3070 2232 Mobile No. 7878007972, 7878007973, 7878007974.

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32.2 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 (hrs.)
1	Release of E-tender	Department	02/12/2020	17:00	02/11/2020	17:00
2	E-tender Download	Bidders	02/12/2020	17:00	10/12/2020	17:00
3	Clarification for Pre-bid	Bidders	02/12/2020	17:00	11/12/2020	17:00
4	Pre-bid Meeting	Department	14/12/2020 11:00 hrs			
5	Bid Submission	Bidders	16/12/2020	11:00	21/12/2020	17:00
6	Envelope Opening Date (Technical Bid)	Department	23/12/2020	13:00	23/12/2020	17:00
7	Envelope Opening Date (Price Bid)	Department	To be announce later			

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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32.3 INSTRUCTIONS TO BIDDERS FOR e-Tendering

32.3.1 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 and BoQ for this Tender and subsequently purchase the Tender Document and its supporting documents, kindly visit following e-Tendering website of **Government of Maharashtra** www.mahatenders.gov.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.

The Contractors participating first time for e-Tenders on Maha e-tendering portal will have to complete the Online Registration Process for the e-Tendering portal. A link for enrolment of new bidders are as follows.

<https://mahatenders.gov.in/nicgep/app?page=BiddersManualKit&service=page>

Empanelment: The Contractors interested in participating in the Tenders of Maharashtra Pollution Control Board processed using the Electronic Tendering System shall be required to enroll on the Electronic Tendering System to obtain Login ID and password.

The Contractors may obtain the necessary information on the process of enrolment either from Helpdesk support team or enrolled directly on Web site www.mahatenders.gov.in.

e-Tendering Tool Kit for Bidders

(detailed Help documents, designed for bidders) has been provided on Mahaetender website in <https://mahatenders.gov.in/nicgep/app?page=BiddersManualKit&service=page> 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 by **Net Banking only** 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 mode by Net banking only during **Bid Preparation stage**. This payment will not be accepted by the department through any offline modes such as Cash, Cheque or Demand Draft.

For any assistance on the use of Electronic Tendering System, the Users may call the below numbers:-

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24 X 7 Help Desk Toll Free No.1800 3070 2232 Mobile No. 7878007972,
7878007973, 7878007974.

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 in order for bidders to successfully complete Online Bidding Process.

ONLINE TENDER DOCUMENT PURCHASE AND DOWNLOAD:

The tender document is uploaded / released on Mahaetenders website www.mahatenders.gov.in Tender document and supporting documents may be purchased and downloaded from above link of Mahaetender site GoM, by making payment through **Online Payment Modes i.e. Net Banking Only.**

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.

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

Subsequently, bid has to 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. 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

Bids shall have to be prepared and subsequently submitted online only. Bids not submitted online will not be entertained.

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Online Bid Preparation Price BID

All commercial offers must be prepared online in given BoQ format (An online form will be provided for this purpose in Online Price Bid Envelope during **Online Bid Preparation** stage).

Online Bid Submission

In this stage, bidders who have successfully completed their Bid Preparation stage are required to submit the bid in prescribe time schedule.

INSTRUCTION TO BIDDERS FOR ONLINE BID PREPARATION & SUBMISSION

Bidders are required to pay Earnest Money Deposit (if applicable to them) through online Payment modes i.e. **Net Banking only** during Bid Preparation Stage.

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.

Hence, it is strongly recommended to bidders to initiate this payment well in advance prior to expiry of Bid Preparation stage in order to avoid elimination from Online Bidding Process on grounds of failure to make this payment.

During the activity of **Bid Preparation**, bidders are required to upload all the documents of the technical bid by scanning the documents and uploading those in the PDF format. This apart, bidders will have to quote commercial offer for the work / item as per the format given, for which bids are invited, in an online form made available to them in Commercial Envelope. This activity of **Bid Preparation** should be completed within the pre-scribed schedule given for bid preparation.

After **Bid Preparation**, the bidders are required to complete **Bid Submission** activity within prescribed schedule without which the tender will not be submitted.

The date and time for online preparation followed by submission of envelopes shall strictly apply in all cases. The tenderers should ensure that their tender is prepared online before the expiry of the scheduled date and time and then submitted online before the expiry of the scheduled date and time. No delay on account of any cause will be entertained. Offers not submitted online will not be entertained.

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If for any reason, any interested bidder fails to complete any of online stages during the complete tender cycle, department shall not be responsible for that and any grievance regarding that shall not be entertained.

Any amendment to the tender will be placed on sub portal of the Department, who have invited the bids, on Maha e-tendering portal. The tenderer will not be communicated separately regarding the amendment.

32.3.2 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-14.2 and Section-33.3.4.1	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 2020	Compulsory
7	Documentary Proofs as testimony for Evaluation of Technical bids as per criteria listed in Section-17.5	Compulsory
8	Technical Proposal as mentioned in Section-33.5 and Annexure-3	Compulsory
9	Manufacturer's Authorisation Form as per EXHIBIT 3	Compulsory
10	Duly filled, signed, and stamped Technical Compliance form as per Annexure - 3	Compulsory

32.3.3 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**).

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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.

32.3.4 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.

32.4 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.

32.5 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.

32.6 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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32.7 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-14.2 and Section-32.3.4.1	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 2020	Compulsory
7	Documentary Proofs as testimony for Evaluation of Technical bids as per criteria listed in Section-16.5	Compulsory
8	Technical Proposal as mentioned in Section-32.5 and Annexure-3	Compulsory
9	Manufacturer's Authorisation Form as per EXHIBIT 3	Compulsory
10	Duly filled, signed, and stamped Technical Compliance form as per Annexure - 3	Compulsory
	FOR COMMERCIAL / PRICE BID	
1	BoQ as per given format	
2	Covering Letter As per Format in EXHIBIT 2	Compulsory
3	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