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MPCON Limited

Rajiv Bhawan, Shyamla Hills, Bhopal 462001

Tel: 0755-4909829 email: mpcon.bpl@mpconsultancy.org

NIT No.: MPC202104047 Dated: 07/06/2021

MPCON Limited, Bhopal on behalf of MP Text Book Corporation, Bhopal invites Tender for Supply, Installation, Testing, Commissioning and One Year Maintenance of Video Conferencing & CCTV Works at various establishments of **MP Text Book Corporation, Arera Hills, Bhopal**. Tenders are invited in two (02) bid system (Technical & Financial bid) from Reputed Vendors, who have experience of more than 5 years in the similar field. **NAME OF WORK:** Supply, Installation, Testing, Commissioning and One Year Maintenance Of Video Conferencing & CCTV Works at various establishments of **MP TEXT BOOK CORPORATION, Arera Hills, Bhopal**.

Estimated Cost: Rs.26.00 Lakhs**Earnest Money Deposit :** Rs. 1.00 Lakhs**PBG:** 5% of the contract value**Period of Completion:** 3 Months from the date of issue of Work Order**Last date of submission of bid:** 28.06.2021 upto 12.00 pm

Bidders will be able to download the document from www.mpconsultancy.org from 05-06-2021, 3:00 PM onwards. The bids have to be submitted in physical copies in the office of MPCON Limited latest by 28-06-2021 12.00 PM. All the updates regarding the tendering process shall be updated on the website only. All the queries related to this tender shall be entertained on email id: sb.jain@mpconsultancy.org up to the date & time mentioned in the bid document, any communication after the due date will not be entertained.

Managing Director MPCON Limited



MPCON Limited

Rajiv Bhawan, Shyamla Hills, Bhopal 462001

Tel: 0755-4909829 email: mpcon.bpl@mpconsultancy.org

NIT No.: MPC202104046 Dated: 07/06/2021

MPCON Limited, Bhopal on behalf of MP Text Book Corporation, Bhopal invites Tender for Solar Power Plants. Tenders are invited in two (02) bid system (Technical & Financial bid) from Reputed Solar Vendors, who have experience of more than 5 years in the similar field. **NAME OF WORK:** Supply, Installation, Testing, Commissioning and 5 YEAR Operation And Maintenance Of Rooftop Grid Connected Photovoltaic Solar Power Plant (Without Battery) With Net Metering For Captive Consumption At **MP TEXT BOOK CORPORATION, Pustak Bhawan, Arera Hills, BHOPAL 35kwp and MPTBC Central Book Depot, Pipalner 20 Kwp**.

Estimated Cost: Rs.32.00 Lakhs**Earnest Money Deposit :** Rs. 1.00 Lakhs**PBG:** 5% of the contract value**Period of Completion:** 3 Months from the date of issue of Work Order**Last date of submission of bid:** 28.06.2021 upto 12.00 pm

Bidders will be able to download the document from www.mpconsultancy.org from 05-06-2021, 3:00 PM onwards. The bids have to be submitted in physical copies in the office of MPCON Limited latest by 28-06-2021 12.00 PM. All the updates regarding the tendering process shall be updated on the website only. All the queries related to this tender shall be entertained on email id: sb.jain@mpconsultancy.org up to the date & time mentioned in the bid document, any communication after the due date will not be entertained.

Managing Director MPCON Limited



• Project Consulting • Training & HRD • e Governance • Advisory Services
A Government of India Undertaking
(भारत सरकार का उपक्रम)

CIN : U74140MP1979GOI001502

Clarification

Date- 07.06.2021

Reg : MPCON Advertisement published in the English daily Times of India, Bhopal edition dated : 07.06.2020.

1. Advertisement NIT No. MPC202104047 (On page no 06).
2. Advertisement NIT No. MPC202104046 (On page no 06).

We hereby clarify that by inadvertently in the above advertisement the date of RFP document down load was mentioned as 05.06.2021. Which may read as 07.06.2021.

For MPCON Ltd.

Authorized Signatory

Corporate Office : Ground Floor, Rajiv Gandhi Bhawan - 2, 35, Shyamla Hills, Bhopal - 462002
Tel: 0755-4909829,2666556, Email: mpcon.bpl@mpconsultancy.org, mpconltd@mpconsultancy.org
Website: www.mpconsultancy.org
(An ISO 9001:2015 Organisation)

TENDER ID - MPC202104046

MPCON LIMITED, BHOPAL



**INVITES TENDERS ON BEHALF OF
MP TEXTBOOK CORPORATION, BHOPAL**



FOR

**DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND 5 YEARS MAINTENANCE OF
ROOF TOP GRID CONNECTED PHOTOVOLTAIC SOLAR POWER PLANT (WITHOUT BATTERY)
FOR CAPTIVE CONSUMPTION AT**

**MP TEXT BOOK CORPORATION, PUSTAK BHAWAN, ARERA HILLS, BHOPAL – 35KWp
AND
MPTBC CENTRAL BOOK DEPOT, PIPALNER – 20 Kwp**

Last date of submission of Tender: **Upto 12.00 P.M. (IST) on 28.06.2021**
Opening of Tenders: **2.30 P.M. (IST) on 28.06.2021**

OFFICE OF THE MANAGING DIRECTOR, MP CON LIMITED, BHOPAL

NIT No. MPC202104046

Dated: 07.06.2021

NOTICE INVITING TENDER

MP CON LIMITED, BHOPAL on behalf of MP TEXT BOOK CORPORATION, BHOPAL invites Tender for Supply, Installation, Testing, Commissioning and 5 YEAR Operation And Maintenance Of Rooftop Grid Connected Photovoltaic Solar Power Plant (Without Battery) With Net Metering For Captive Consumption At MP TEXT BOOK CORPORATION, Pustak Bhawan, Arera Hills, BHOPAL – 35kwp and MPTBC Central Book Depot, Pipalner– 20 Kwp.

Tenders are invited in two (02) bid system (Technical & Financial bid) from Reputed Solar Vendors, who have experience of more than 5 years in the similar field.

NAME OF WORK: Supply, Installation, Testing, Commissioning and 5 YEAR Operation And Maintenance Of Rooftop Grid Connected Photovoltaic Solar Power Plant (Without Battery) With Net Metering For Captive Consumption At MP TEXT BOOK CORPORATION, Pustak Bhawan, Arera Hills, BHOPAL – 35kwp and MPTBC Central Book Depot, Pipalner– 20 Kwp.

Estimated Cost: Rs.32.00Lakhs

Earnest Money Deposit: Rs.1.00 Lakhs

PBG: 5% of the contract value

Period of Completion: 3 Months from the date of issue of Work Order

Last date of submission of bid: 28.06.2021 upto 12.00 pm.

Bidders will be able to download the document from www.mpconsultancy.org from 07-06-2021 4:00 PM onwards. The bids have to be submitted in physical copies in the office of MP CON Limited latest by 28-06-2021 12.00 PM. All the updates regarding the tendering process shall be updated on the website only.

All the queries related to this tender shall be entertained on email id: sb.jain@mpconsultancy.org up to the date & time mentioned in the bid document, any communication after the due date will not be entertained.

Managing Director
MP CON Limited

Disclaimer

Though adequate care has been taken in the preparation of this RFP document, the interested bidders shall satisfy themselves that the document is complete in all respects; the information published in this document is not intended to be exhaustive. Interested Bidders are required to make their own enquiries and assumptions wherever required. Intimation of discrepancy, if any, should be given to the specified e-mail id mentioned in the pre-bid column up to the date & time specified. If no intimation is received by this office by the date mentioned in the document, it shall be deemed that the RFP document is complete in all respects and firms submitting their bids have understood completely and are satisfied with the terms and conditions mentioned in it. No claim shall be made after the due dates and time given for the particular activity mentioned in the schedule above.

MPCON Limited and MP Text Book Corporation Bhopal has the right to reject any or all of the applications submitted in response to this RFP document or cancel the entire tender at any stage without assigning any reasons whatsoever. **MPCON Limited and MP Text Book Corporation** also reserves the right to withhold or withdraw the process at any stage with intimation to all who have submitted their bids in response to this RFP.

MPCON Limited and MP Text Book Corporation reserves the right to change/ modify/ amend any or all of the provisions of this RFP document without assigning any reason. Any such change would be communicated to the bidders by posting it on the website www.mpconsultancy.org

Neither **MPCON Limited and MP Text Book Corporation** nor their employees and any associates will have any liability to any prospective Bidder interested to apply or any other person under the law of contract to the principles of resolution 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 document, any matter deemed to form part of this RFP document, the award of the assignment, the information and any other information supplied by or on behalf of **MPCON Limited and MP Text Book Corporation** or their employees and Prime Bidder or Consortium Partner or otherwise arising in any way from the selection process for the assignment.

Information provided in this document or imparted to any Bidder as part of RFP process is confidential to **MPCON Limited and MP Text Book Corporation** and shall not be used by the Bidder for any other purpose, distributed, or shared with any other person or organization.

TENDER DETAILS

1.1. The details of the Tender are as under:

S. No.	Description	Details
1.	Name of work	"Supply, Installation, Testing, commissioning and 5 Year operation and maintenance of Roof top grid connected Photo voltaic Solar Power plant(without Battery) for captive consumption at MP Text Book Corporation, Pustak Bhawan, Arera Hills, Bhopal – 35KWp and Central Book Depot, MP Text Book Corporation, PIPALNER – 20 KWp "
2.	Time allowed for completion	3 Months
3.	Cost of Tender Papers (Processing fee) Non-refundable	Rs.2500/- (Rupees Two thousand five hundred only) plus 18% GST, through online payment to MP Text Book Corporation Bhopal. The Bank details are as follows: Account No.- 20027312046 Type of Account: Current Account IFSC Code: IDIB000B796 Bank: Indian Bank, Arera Colony, Bhopal The receipt of payment to be submitted along with the technical bid. Without tender processing fee tender will be rejected.
4.	Earnest Money Deposit (EMD)	Rs. 1.00 Lakhs to be paid in the form of Demand Draft in favor of MP Text Book Corporation Bhopal. EMD will be exempted for MSME Bidders.
5.	Performance Security	5% of the Contract Value to be submitted by the successful bidder within 15 days from the award of Letter of Intent. The Performance Security can be submitted in the form of Bank Guarantee or DD in favor of MP Text Book Corporation Bhopal. After submission of the Performance Security, Contract will be awarded to the bidder. This amount shall be released on the successful commissioning of the plants.
6.	Security Deposit	5% of Contract Value will be de ducted from contractor's bill and will be refunded 1%(One percent) at the end of every year for next 5 years, provided the contractor attends to all defects satisfactorily during the operation and maintenance period of 5 years.
7.	Date of issue of Online Tender Documents	07.06.2021 to 27.06.2021 from website www.mpconsultancy.org . Hard copy can be obtained from MPCON Ltd. Ground Floor, Rajiv Gandhi Bhawan-2, 35, Shyamla Hills, Bhopal 462002 upon submission of Demand Draft/Cash as per cost afore mentioned.
8.	Address at which hard copy to be submitted	MPCON Ltd. Ground Floor Rajiv Gandhi Bhawan-2, 35, Shyamla Hills Bhopal 462002
9.	Last date of submission of	12.00 P.M(IST) on 28.06.2021

	technical & financial bid.	
10.	Date and time of opening of Technical and financial Bids	Technical bid 28.06.2021 at 2.30 P.M and financial bid will open on 29.06.2021 at 3.00 pm at the above address in presence of the vendors or their authorized representative who desires to be present. Price Bid will be opened on the same date or a later date, for those who qualify in Technical Bid and presentation on the basis of technical evaluation is annexed in annexure no 2.
11.	Liquidated damages	0.50% of Contract amount per week of delay in completion of work subject to maximum 5% of contract value or final bill value.
12.	Defect Liability period	60 Months from date of completion of work
13.	Terms of Payment	70% of Contract Value shall be paid against delivery of solar panels, module mounting structures and inverters at site and due inspection & verification by MPCON official regarding the same. 20% of Contract Value shall be paid after installation and successful testing of the operational system. 5% of Contract Value shall be paid after successful completion of net metering with the DISCOM. 5% shall be retained as Security Deposit. On submission of Bank Guarantee, the 5% amount will be released to the Contractor. The Bank Guarantee will be returned to the contractor after 5 years period, provided the contractor attends to all defects satisfactorily during the operation and maintenance period of 5 years. No Advance will be paid to the Contractor.
14.	Validity of Tender	90 days from the date of opening of price bid
15.	Consortium or JV	No consortium or JV shall be permitted. Eligible Bidder shall bid in its individual capacity.
16.	Eligible taxes	Contractor should have GST Registration Number. Invoice should specifically/separately disclose the amount of GST levied at applicable rate as per GST provisions/Rules. Bidding shall be inclusive of all taxes and will be borne by the vendor.

1.2. Information Regarding Submission of Tenders

Eligible vendors should download the tender documents from www.mpconsultancy.org website and submit the completed sealed tender document in physical copies in the office of MPCON Limited, Bhopal.

Vendors should submit the hard copies of the Technical and financial bids in 02 (two) separate sealed cover and super scribed with the name of the work. Both the Technical and financial bid should be in a separate large envelope sealed and super scribed with the name of the work.

Technical bid:

Technical bid should contain the following:-

- i) Receipt of Tender processing fee
- ii) Receipt of EMD/Demand Draft and/or MSME Certificate (for exemption)
- iii) Details as per eligibility criteria
- iv) All tender papers duly signed & stamped by the vendor.
- v) Copy of completed projects in proof of experience.

Without any one of the above in the Technical bid, the Tender will be rejected and price bid will be returned without being opened.

Financial / Price Bid: Vendor should submit the price bid in a separate sealed envelope. The price bid should only contain the priced offers and general rebate (if any). Any condition in the price bid will be liable for rejection of tender.

1.3. Pre Bid Enquiry

All pre bid enquiry can be submitted till 3:00 pm on 12 June, 2021. To be received from the companies official email id only at our e-mail id: sb.jain@mpconsultancy.org as per the format given in the tender document.

Queries addressed to any other email id or in physical form shall not be considered.

Reply of queries shall be by 17 June, 2021. If needed, pre-bid meeting will be organized for which prior intimation to the bidders will be given.

Tenderers are advised to inspect the site before submission of the tender in order to get acquainted with the proposed work and site condition and satisfy themselves before quoting the rate. No deviation in condition specification or additional items shall be entertained at a later date.

In case the date of opening of tenders is declared as a holiday, the tenders will be opened on the next working day at the same time &venue.

2. ELIGIBILITY

The applicant should be a well-established and reputed Indian Firm having experience in installation of at least one 35 Kwp or above capacity Grid Tied Solar Power Plant and allied work in anywhere in India operational for the last 5 years. (Copy of work order showing an experience of the same must be enclosed).

The applicant should also have installed at least 500 KWp cumulative capacities in the last 5 years and been active as a manufacturer or system integrator of rooftop solar power plants for at least last 5 years. (Till 31 March 2021).

NOTE:

- a. "similar" works under this clause shall mean "successful completion of Solar Power plant under MNRE Roof top category
- b. "Cost of work" shall mean actual gross value of completed "similar" work including all the components executed under single contract. The applicant shall submit a certificate or bill of each project executed by them, during the said period.
- c. All the above said completed works should be for some Central / State Government /Autonomous Body/Central/State Public Sector undertaking or implemented under State Nodal Agency/SECI, etc.

S.no	Basic Requirement	Description	Documents Required
1	Legal Entity	<ul style="list-style-type: none">• An entity registered under Indian Companies Act 1956/2013, registered firm, proprietorship firm, or institutional organization.• Valid PAN card and GST registration in India.• Registered office in India, which is operational for at least last 5 years• The bidder should have office in Bhopal (MP).	<ul style="list-style-type: none">• Certificate of incorporation• Registration Certificates along with Bylaws/MOA&AOA or similar legal document.• Copies of PAN, TIN and GST• Office details• Local Office Detail(Bhopal,MP)
2	Turnover	<ul style="list-style-type: none">• The bidder should have average annual turnover of minimum Rs. One Crore in last three financial years (2017-18, 2018-19, 2019-20) from Solar Rooftop Business.	<ul style="list-style-type: none">• Audited Balance Sheet and Financial Statements along with CA Certificate

3	Technical Capability/ Experience	<ul style="list-style-type: none"> • The bidder must have an experience of setting up at least 500 KWp cumulative capacity in the last 5 years and been active as a manufacturer or system integrator of rooftop solar power plants for at least last 5 years. (Till 31 March, 2021). • The bidder must have installed at least one solar power plant of minimum 35 Kwp capacity which is operational since past 5 years. 	<ul style="list-style-type: none"> • Completion Certificates and work order or purchase order copy. • Documentary evidence of eligibility regarding installation of solar systems.
4	Blacklisting/ Terminations	<ul style="list-style-type: none"> • The bidder hasn't been blacklisted by any institution of the Central/state government in the past Five Years. 	<ul style="list-style-type: none"> • An Affidavit signed by the authorized signatory

2. INSTRUCTION TO THE BIDDERS

2.1. TENDERING PROCESS

- 3.1.1 Tender documents can be downloaded from website www.mpconsultancy.org. However, the tender document of those bidders shall be acceptable who have made online payment for the tender documents fee of Rs. 2500/- (Rs. Two Thousand Five Hundred only) plus GST, without which bids will not be accepted. The tender document fee in the form of Demand Draft payable to MP Text Book Corporation Bhopal can however be submitted in the bid documents.
- 3.1.2 Bidders are requested to visit our website regularly for any clarifications and/or due date extension or corrigendum.
- 3.1.3 MPCON shall not be responsible in any way for delay/ difficulties / inaccessibility of the downloading facility from the website for any reason whatsoever.

2.2. GENERAL INSTRUCTIONS

- 3.2.1 The applicants should go through carefully & ensure that the complete TENDER document contains all pages of the document. The applicant should ensure that every page of the downloaded tender document and supporting materials is signed by applicant with stamp (seal) of the applicant company and all the blanks are filled by them suitably.
- 3.2.2 The applicant should ensure that the downloaded Tender document is properly sealed before submitting the same and any correction / addition / alteration / omission, made in the Tender document by the applicant, shall be treated as non-responsive and the application shall be summarily rejected.
- 3.2.3 Bidders shall provide evidence of relevant technical experience and qualification.
- 3.2.4 Bidder shall have a minimum of 5 years of experience in relevant business of Rooftop solar power projects.
- 3.2.5 The Bidder is requested to furnish document to establish their eligibility for each of the above clauses. Relevant portion, in the documents submitted in pursuance of eligibility criterion mentioned above, should be highlighted. If tender were not accompanied by all the above documents mentioned, the same would be rejected.
- 3.2.6 The bid submitted by any bidder not fulfilling the eligibility conditions/ criteria stipulated above, will not be considered and treated as rejected during the technical evaluation process.
- 3.2.7 MPCON reserves the right to seek fresh set of document or seek clarification on the already/submitted documents. Upon verification, evaluation/assessment, if incase any information furnished by the Bidder is found to be false/ incorrect, their bid shall be summarily rejected and no correspondence on the same shall be entertained.
- 3.2.8 Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices by the Bank/Recognized Government Body.
- 3.2.9 Consortium or JV is not allowed and the bidder shall be solely responsible to meet all the terms and conditions of this RFP.
- 3.2.10 MPCON reserves the right to place an extension order for any new requirement/change request on mutually agreed terms & condition with MP TEXT BOOK CORPORATION. The capacity and/or number of systems may increase or decrease upto 50%, if so needed, on the same terms and conditions.
- 3.2.11 The capacity and/or number of solar systems may increase or decrease upto 50%, if so needed, on the same terms and conditions.

2.3. PERFORMANCE SECURITY

- a. The successful Bidder has to furnish a performance security as to guarantee the performance of the contract.
- b. The Successful bidder has to submit Performance Guarantee:-
The Successful bidder has to submit Performance Bank Guarantee or Performance Security deposit @ **5%** of Total Project Cost value within 15 days from the date of issue of Letter of Intent for the duration of project through any of the Nationalized Bank including the public sector bank or Private Sector Banks authorized by RBI or Commercial Bank (operating in India having branch at Bhopal), in the name of Managing Director, MP Text Book Corporation, Madhya Pradesh. On receipt of Performance Guarantee, firm Work Order will be released in the name of the party.
- c. The Performance security shall be payable to MP Text Book Corporation, as compensation for any loss resulting from the Vendor's failure to complete its obligations under the Contract.
- d. No interest shall be payable on the PBG amount. **MP Text Book Corporation Bhopal** may invoke the above bank guarantee for any kind of recoveries.
- e. The Bid security will be forfeited on account of one or more of the following reasons :
 - i. The Bidder withdraws its Proposal during the period of proposal validity.
 - ii. Bidder does not respond to requests for clarification of its proposal.
 - iii. In case of a successful Bidder, the said Bidder fails to sign the Agreement in time.

2.4. PROJECT DURATION

The total duration of project would be 90 working Days including Supply, Installation, Commissioning and testing of the Solar Power system at both the locations. On successful Commissioning of the plant, the Operations and Maintenance period for 60 Months would be started.

2.5. PENALTY

If the project is not completed within the Scheduled delivery period, a Penalty @ 0.5% per week or part thereof of subject to a maximum of 5% shall be imposed which will be deducted from the Invoice.

2.6. DEFECT LIABILITY

The Defect Liability period shall be 60(sixty) months from the date of completion. The contractor has to undertake to attend repairs/rectify the defects within 48 hours whatsoever during the defects liability period.

2.7. INSURANCE

Transit insurance up to the arrival at destination and till project completion, shall be arranged by the VENDOR and shall communicate details of goods as soon as these are dispatched. The VENDOR shall be solely responsible and held liable to pay for the loss incurred during transit.

2.8. GUARANTEES AND PERFORMANCE

The vendor shall guarantee the design, materials and workmanship as well as satisfactory operation of all items of the plant, machinery and equipment offered by him, with respect to all individual items and collective items comprising a group of equipment and for the whole plant and equipment in accordance with the performance requirements indicated in the tender documents. In this respect, the tenderer shall indicate clearly in his offer the details of various outputs, accuracy, consumption and performance test procedure as well as guarantees for the plant and equipment offered the Penalties payable in case of non-fulfillment of performance guarantees up to acceptable tolerance limits.

The vendor shall undertake to rectify at its expense any defect coming from an error in the design, raw material or manufacturing of the equipment within period of **60 months** from the date of commissioning or **60 months** from the date of dispatch, whichever is earlier.

2.9. FORCE MAJEURE

Notwithstanding anything contained in the RFP, the bidder shall not be liable for liquidated damages or termination for default, if and to the extent that, its delays in performance or other failures to perform its obligations under the result of an event of Force Majeure.

For purposes of this clause “Force Majeure” means an event beyond the control of the selected bidder and not involving the selected bidder’s fault or negligence and which was not foreseeable. Such events may include wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargos. The decision of MPCON regarding Force Majeure shall be final and binding on the selected bidder.

If a Force Majeure situation arises, the selected bidder shall promptly notify to MPCON in writing, of such conditions and the cause thereof otherwise directed by MPCON in writing, the selected bidder shall continue to perform its obligations under the agreement as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

2.10. RESOLUTION OF DISPUTE

The Parties agree that the avoidance or early resolution of disputes is crucial for a smooth execution of the Contract and the success of the assignment. The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.

Any Dispute or Difference whatsoever arising between the parties to the Agreement or relating to the Objective, meaning, scope, operation or effect of the Agreement or validity of the breach there of, which cannot be resolved through negotiation process, shall be referred to the sole Arbitrator, Managing Director MPCON whose decision shall be final.

All legal disputes between the parties shall be subject to the jurisdiction of the court situated in Bhopal, Madhya Pradesh only.

2.11. BINDING CLAUSE

All decisions taken by **MPCON** regarding the processing this tender and award of contract shall be final and binding on all parties concerned.

3. BID EVALUATION

The bid evaluation committee constituted by MPCON shall evaluate bids. This will involve the representations from MP Text Book Corporation, MPCON and subject experts. The decision of the bid evaluation committee in the evaluation of the PQ and Financial Bids shall be final.

3.1. Technical Evaluation

Pre-qualification bid documentation shall be evaluated as under:

- a. The initial eligibility criteria prescribed above (in respect of experience of similar nature of work completed) shall be first scrutinized and the applicant’s eligibility for pre-qualification for the work will be determined
- b. Only the applicants who meet the initial eligibility criteria specified as above will be further evaluated on the basis of details furnished by them.
- c. The evaluation committee will check if the bidder has deposited the tender document fee along with the Technical Proposal and the same are found to be in order.

- d. The documentation furnished by the bidder will be examined prima-facie to see if the agency's capacity, skill base and other Bidder attributes as claimed there in are consistent with the needs of this project. If needed, the selection committee may ask for formal presentation by the bidders to further evaluate, screen and shortlist the bidders.
- e. MPCON may ask bidder(s) for additional information, and/or arrange discussions with their professional, technical resource to verify claims made in bid documentation. If the bidder fails to submit the additional supporting documents, the bid shall be rejected.

3.2. Commercial Evaluation

- a. Bid evaluation committee will evaluate and compare the bids determined to be substantially responsive. It is bid evaluation committee's intent to select the proposal that is most responsive to the project needs and each will be evaluated using the criteria and process outlined in this section.
- b. Financial Bids will be opened of only those bidders who are qualified in the pre-qualification.
- c. Financial Bids of the non-responsive and disqualified bidders will not be opened.
- d. The evaluation shall be strictly based on the information and supporting documents provided by the bidders. It is the responsibility of bidders to provide all supporting documents as listed in forms necessary to fulfill the mandatory eligibility criteria.
- e. Even though an applicant may satisfy the above requirements, he would be liable to disqualification if he has:
 - Made misleading or false representation or deliberately suppressed the information in the forms, statements prescribed in the pre-qualification document.
 - Record of poor performance such as, abandoning work, not properly completing the contract, or financial failures/weaknesses, etc.

3.3. Contract Finalization

The bidder duly qualified and selected in the technical bid and presentation offering the lowest value will be selected for award of the contract.

- MPCON shall notify to the bidder, through a Letter of Intent that its bid has been accepted. The letter of intent will be accompanied by Performa for agreements between the parties.
- After issuance of LOI, if the successful bidder denies accepting the LOI or executing the project, the bidder will be blacklisted.
- In case the L1 bidder denies accepting the LOI and/or fails to submit the Performance Bank Guarantee within the specified time period, the bidder who has quoted L2 rates will be offered the work under the same terms and conditions and at L1 rates.
- MPCON will be free to cancel the whole tender, if it finds it deem fit to do so.
- Within 15 working days of receipt of the Lol, the successful bidder shall furnish the Performance Bank Guarantee.
- On receipt of the Performance Guarantee, the successful bidder shall be issued work order. The selected bidder will initiate the execution of the work as specified in the agreement.
- The contractor shall be are all expenses in connection with the execution of the said agreement including fees for stamps and registration of documents as required/ applicable.
- The contractor is required to comply with all acts of Government relating to labor and the rules and regulation made there under from time to time.
- Before starting the job, vendor should prepare drawing & design of SPV roof top power plant for each location and get it duly approved by MPCON.

3.4. Payment Terms

- 4.4.1 No advance shall be paid
- 4.4.2 70% of Contract Value shall be paid after supply of major components of the solar power plants (Solar Panels, Module Mounting Structures and Inverters) at the sites. The payment will be released after due inspection and verification of officials of MPCON.
- 4.4.3 20% of Contract Value shall be paid after installation and successful testing of the operational system. Also, all component certificates and warranty documents need to be handed over to MPCON for qualifying for release of second installment.
- 4.4.4 5% of Contract Value shall be paid after successful completion of net metering with the DISCOM.
- 4.4.5 Remaining 5% of Contract Value shall be retained as Security Deposit. This amount shall be refunded 1% (One percent) at the end of every year for next 5 years, provided the contractor attends to all defects satisfactorily during the defect liability period. However, on submission of Bank Guarantee, the 5% amount can be released to the Contractor.
- 4.4.6 TAX DEDUCTION AT SOURCE: Applicable taxes will be deducted at source as per the rate prevalent at the time of payment of the bill.

4. TECHNICAL SPECIFICATIONS

The scope of work and general conditions are mentioned in the following paragraphs.

The technical specifications of the individual equipments/components of the solar power plant are detailed in Annexure-1.

5.1 Scope of Work

The scope of work shall include the following:

- a. Design and Delivery of all equipment's materials for the captioned work, to the site including packing, handling, transporting, loading/unloading etc.at the site.
- b. Erection, Testing, commission of solar Power Plant, metering arrangements with DISCOM and handing over the system to the assigned authority of MP TEXT BOOK CORPORATION, Bhopal.
- c. Providing regular upkeeps & Maintenance inclusive of periodic services for a period of 5 Years.

This must include weekly cleaning of solar modules for the entire duration of 5 years. Arrangements for cleaning of modules, spare parts etc shall all be entirely covered by the Contractor for the duration of 5 years.

Tenderer are advised to inspect the site in consultation before submission of the tendering order to acquaint with the proposed work and Site conditions.

5.2 Quality and Workmanship

Solar PV modules are designed to last 25 years or more. It is therefore essential that all major system components and parts also have a life cycle of at least 25 years. Therefore all works shall be under taken with the highest levels of quality and workmanship. During inspection MPCON will pay special attention to neatness of work execution and conform it with quality and safety norms. on-compliant works will have to be done at the cost of the Installer.

5.3 The Solar Power Plants

In grid-connected Solar Photo-Voltaic (SPV) systems, solar energy is fed into the building loads that are connected to the public electricity grid through a service connection with surplus energy being fed into the grid and shortfall being drawn from the grid. Production of surplus energy may happen when solar energy produced exceeds building load energy demand. This surplus is fed into the grid. During

the night, or when during the day energy demand in the building exceeds solar energy production, energy is drawn from the grid. Grid connected solar PV systems have no battery storage and will not work during grid failure.

For buildings with grid-connected solar PV systems, the service connection meter needs to be of the bi-directional type, where by import kWh and export kWh are separately recorded.

A Grid Tied Solar Rooftop Photo Voltaic (SPV) power plant consists of SPV array, Module Mounting Structure, Power Conditioning Unit (PCU) consisting of Maximum Power Point Tracker (MPPT), Inverter, and Controls & Protections, interconnect cables and switches. PV Array is mounted on a suitable structure. Grid tied SPV system is without battery and should be designed with necessary features to supplement the grid power during day time. Components and parts used in the SPV power plants including the PV modules, metallic structures, cables, junction box, Switches, PCUs etc., should conform to the BIS or IEC or international specifications, wherever such specifications are available and applicable. Solar PV system shall consist of following equipment/components.

- * Solar PV modules consisting of required number of efficient Crystalline PV modules
- * Grid interactive Power Conditioning Unit with Remote Monitoring System
- * Hot Dip Galvanized Module Mounting Structures.
- * Junction Boxes.
- * Earthing and lightening protections.
- * IR/UV protected PVC Cables, pipes and accessories.

5.4 Danger Boards and Signage:

Danger boards should be provided as and where necessary as per IE Act. /IE rules as amended up to date. Three signage shall be provided one each at Inverter/ control room, solar array area and main entry from administrative block. Text of the signage may be finalized in consultation with MPCON.

5.5 Drawings and Manual:

- Two sets of Engineering, electrical drawings and Installation and O&M manuals SOP are to be supplied. Bidders shall provide complete technical data sheets for each equipment giving details of the specifications along with make/makes along with basic design of the power plant and power evacuation, synchronization along with protection equipment.
- Approved ISI and reputed makes for equipment be used.
- For complete electro-mechanical works, successful bidder shall supply complete design, details and drawings for approval to MPCON before progressing with the installation work.
- The bidder should carry out Shadow Analysis at the site and accordingly design strings & arrays layout considering optimal usage of space, material and labor. The bidder should submit the array layout drawings and key components and structure and foundation details for approval.
- MPCON reserves the right to modify the landscaping design, Layout and specification of sub-systems and components at any stage as per local site conditions/requirements.

5.6 Safety Measures:

The bidder shall take entire responsibility for electrical safety of the installation(s) including connectivity with the grid and follow all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA guidelines etc.

5.7 Test Certificates and Reports:

Test Certificates / Reports from IECQ / NABL accredited laboratory for relevant IEC / equivalent BIS standard for quoted components shall be furnished. Type Test Certificates shall be provided for the solar modules and the solar grid inverter to provide evidence of compliance with standards as specified by Ministry of New and Renewable Energy (MNRE).

5.8 MNRE Specifications and Standards

The Tenderer should ensure that all components and systems used under this Scheme shall strictly adhere to the Technical Specifications and Guidelines issued by MNRE, and as amended from time to time.

FORMATS AND ANNEXURES

**Performa of Compliance Letter/Authenticity of Information
(On Non-judicial Stamp paper of Rs.100/-)**

Date:

To,

The Managing Director
MPCON Limited, Bhopal

Sub: Compliance with the tender terms and conditions, specifications and Eligibility Criteria

Ref: Bid for Supply, Installation, Testing, Commissioning And 5 Year Operation & Maintenance Of Roof Top Grid Connected Photovoltaic Solar Power Plant (Without Battery) With Net-Metering For Captive Consumption At Pustak Bhawan, MP Text Book Corporation, Bhopal– 35kwp and at MPTBC Central Book Depot, Pipalner– 20 Kwp AND (Tender no. MPC202104046).

Dear Sir,

With reference to above referred tender, I, undersigned<<**Name of Signatory**>>, in the capacity of<<**Designation of Signatory**>>, is authorized to give the undertaking on behalf of <<**Name of the bidder**>>.We wish to inform you that we have read and understood the technical specification and total requirement of the above mentioned bid. We hereby confirm that all our quoted items meet the requirement and are absolutely compliant with specifications mentioned in the bid document.

We also explicitly understand that all quoted items meet all technical specification of each item and services desired in the bid and that such technical specification over rides the brochures/standard literature if the same contradicts or is absent in brochures.

In case of breach of any tender terms and conditions or deviation from bid specification other than already specified as mentioned above, the decision of Managing Director MPCON will be final and accepted to us.

All the Information provided in our submitted bid is true and correct. In case any information provided by us are found to be false or incorrect, you have right to reject our bid at any stage including forfeiture of our PBG/ cancel the award of contract. In this event, MPCON reserves the right to take legal action on us.

Thanking you,

Dated: _____

Signature:_____

(In the Capacity of):_____

Duly authorized to sign bid for and on behalf of

Note: This form should be signed by authorized signatory of bidder

APPLICATION FORM

1	Name of the organization:	
2	Address:	
3	Name: Telephone Nos.: Mobile: E-mail id of Contact Person:	
4	Status of the Firm: (Whether Public or Private Ltd Company/Firm/Proprietary	
5	Year of Establishment: (Supporting document to be submitted):	
6	Whether registered with the Registrar of Companies / Registrar of firms. (if so, mention number and date and supporting documents to be submitted):	
7	Income Tax PAN No.	
8	GST No	
9	TIN No.	
10	Trade License Particulars:	
11	Names of Directors / Proprietor /Partners/Associates	
12	Details of "Similar" Nature of works: Completed during the last 5 years. (Details may be attached in separate sheet)	
13	Latest Income Tax Clearance Certificate/:(Copies of Last 3years IT Return submitted to been closed)	
14	List of empanelment/enlistment/registration with other Organizations /statutory bodies etc. If so, furnish their names, category and date of registration:	
15	Annual turnover for the last 3 financial years(year-wise) ending 31.03.2020 as per Audited Balance Sheet:	

	FY2019-20	
	FY2018-19	
	FY2017-18	
16	Name and address of persons who will be in a position to certify about the quality as well as performance of applicant firm:	

Authorized Signatory

PRE BID CLARIFICATION FORMAT

Name of Organization					
Name & position of person					
Full formal address Including phone, mobile and email					
S. No.	Page No.	Clause No.	Clause heading	Query / Clarification sought	Suggestion

BLACKLISTING DECLARATION FORMAT
To be furnished on Letter Head

Date:
Place:

TO WHOMSOEVER IT MAY CONCERN

I hereby declare that **<Organization Name>** as on date of is not blacklisted by any Central Government/State Government or any other organization in past three years, if found guilty after signing this declaration, we agree that the bid submitted by the **<Organization Name>** will be disqualified even after issuing the work order/signing the agreement.

Authorized Signatory

Name:
Designation:

Company Name:
Address:
Contact Details:

PRICE BID FORMAT

PRICE BID

Schedule of Rates for offering rates for Solar Power Plants

Name of Work: Supply, Installation, Testing, commissioning and 5 Year operation and maintenance of Rooftop grid connected Photovoltaic Solar Power plant (without Battery) for captive consumption at MPTBC CENTRAL BOOK DEPOT, PIPALNER – 20 KWp AND Pustak Bhawan, MP TEXT BOOK CORPORATION, BHOPAL – 35KWp

Name of Bidder: _____

S. No	Description	Price Quoted in Rupees inclusive of all taxes
1	Design, Engineering, Supply of Solar PV Modules, Module Mounting Structures, Inverters and Balance of System includes but not limited to all equipment, materials, spares, cables, conductors, accessories etc. required for complete project execution up to site complete in all aspects. General works including erection, commissioning, testing etc. of entire plant including erection of modules, MMS, Inverters etc. complete in all aspects Civil, Evacuation and Net Metering Works including site preparation, construction of foundations, installation of meters complete in all aspects etc.	
2	Operation & Maintenance of the Solar Power Plants for 5 years period.	
	Total	

Amount in words: Rupees _____

The above rates are inclusive of all expenses, duties and taxes. MPCON will not be liable for any payment over and above on cost as quoted in bid.

Signature of the Authorized Signatory:

Name of the authorized Signatory:

Seal of Company:

PERFORMANCE GUARANTEE FORMAT

(To be submitted on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

In consideration of the [Insert name of the Bidder] (Herein after referred to as Contractor) submitting the response to Tender No. MPC202104046 dated issued by MP CON Limited on behalf of MP Text Book Corporation Ltd and MP CON considering such response to the Bid of [Insert the name of the selected Contractor] (Which expression shall unless repugnant to the context or meaning thereof include its executors, administrators, successors and assignees) and selecting the Contractor and issuing Letter of Intent no. to..... (Insert Name Of selected Contractor) as per terms of the tender and the same having been accepted by the selected Company, M/s

As per the terms of the tender, the [insert name & address of bank] here by agrees unequivocally, irrevocably and unconditionally to pay to M.P Text Book Corporation at Bhopal forthwith on demand in writing from M.P Text Book Corporation or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees..... [Total value] only, on behalf of M/s [Insert name of the selected Contractor]. This guarantee shall be valid and binding on this Bank up to and including..... and shall not be terminable by notice or any change in the constitution of the Bank or the term of contract or by any other reasons whatsoever and our liability here under shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rs.....

Our Guarantee shall remain in force until..... M.P Text Book Corporation Bhopal shall be entitled to invoke this Guarantee till [Insert date which is 90 days after the date in the preceding sentence].

The Guarantor Bank hereby agrees and acknowledges that M.P Text Book Corporation shall have a right to invoke this BANK GUARANTEE in part or in full, as it may deem fit.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand by M.P Text Book Corporation, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to M.P Text Book Corporation.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by ----- [Insert name of the selected bidder]. The Guarantor Bank shall not require M.P Text Book Corporation to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against M.P Text Book Corporation in respect of any payment made here under.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at Bhopal shall have exclusive jurisdiction.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly MPCON shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the selected Contractor, to make any claim against or any demand on the Empanelled Vendor or to give any notice to the selected Contractor or to enforce any security held by M.P Text Book Corporation or to exercise, levy or enforce any distress, diligence or other process against the selected Contractor.

Notwithstanding anything contained herein above, our liability under this Guarantee is restricted to Rs..... (Rs..... only) and it shall remain in force until
[Insert date which is 90 days after the date in the preceding sentence].

We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if M.P Text Book Corporation serves upon us a written claim or demand.

Signature
Name
Power of Attorney No.

For,
..... [Insert the bank name]

Banker's Stamp and Full Address.

Dated this day of, 2021

Witness:

1.
Signature
Name and Address

2.
Signature
Name and Address

Notes:

1. The Stamp Paper should be in the name of the Executing Bank and of appropriate value.
2. The Performance Bank Guarantee (PBG) shall be executed by any of the Nationalized Bank only.

Annexure-1

COMPONENTS OF SOLAR POWER PLANT AND TECHNICAL PARAMETERS

Solar PV Modules:

The PV modules should be made in India. The PV modules used must qualify to the latest edition of IEC PV module qualification test or equivalent BIS standards Crystalline Silicon Solar Cell Modules IEC 61215/IS14286. In addition, the modules must conform to IEC61730 Part-1 requirements for construction & Part 2 requirements for testing, for safety qualification or equivalent IS.

- For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701/IS61701
- The total solar PV array capacity should not be less than allocated capacity (KWp) and should comprise of solar crystalline modules of minimum 300 Wp and above wattage. Module capacity less than minimum 300 watts should not be accepted.
- Protective devices against surges at the PV module shall be provided. Low voltage drop by pass diodes shall be provided.
- PV modules must be tested and approved by one of the IEC authorized test centers.
- The module frame shall be made of corrosion resistant materials, preferably having anodized aluminum.
- The bidder shall carefully design & accommodate requisite numbers of the modules to achieve the rated power in his bid. Bank shall allow only minor changes at the time of execution.
- Other general requirement for the PV modules and subsystems shall be the following:
- The rated output power of any supplied module shall have tolerance of +/-3 %.
- The peak-power point voltage and the peak-power point current of any supplied module and/or any module string (series connected modules) shall not vary by more than 2(two) per cent from the respective arithmetic means for all modules and/or for all module strings, as the case maybe.
- IV curves at STC should be provided by bidder

Modules deployed must use a RF identification tag. The following information must be mentioned in the RFID used on each module (This can be inside or outside the laminate, but must be able to withstand harsh environmental conditions).

- Name of the manufacturer of the PV module
- Month & year of the manufacture
- Country of origin
- Unique Serial No and Model No of the module
- Other relevant information on traceability of solar cells and module as per ISO 9000 series.

Warranties:

- **Material Warranty:** Material Warranty is defined as: The manufacturer should warrant the Solar Module(s) to be free from the defects and/or failures specified below for a period not less than five (05) years from the date of manufacturing.
 - Defects and/or failures due to manufacturing
 - Defects and/ or failures due to quality of materials
- **Non-conformity to specifications due to faulty manufacturing and/or inspection processes.**
If the solar Module(s) fails to conform to this warranty, the manufacturer will repair or replace the solar module(s), at the Owners 'sole option.
- **Performance Warranty:** The predicted electrical degradation of power generated not exceeding 20% of the minimum rated power over the 25 year period and not more than 10% after ten years period of the full rated original output.

Module Mounting Structure:

- Hot dip galvanized (minimum 70 microns) MS or aluminum mounting structures may be used for mounting the modules/panels/arrays. Each structure should have angle of inclination as per the site conditions to take maximum insulation. However to accommodate more capacity the angle inclination may be reduced until the plant meets the specified performance ratio requirements.
- The Mounting structure shall be so designed to with stand the speed for the wind zone of the location where a PV system is proposed to be installed. It may be ensured that the design has been certified by a recognized Lab/ Institution in this regard and submit wind loading calculation sheet. Suitable fastening arrangement should be provided to secure the installation against the specific wind speed.
- Structural material shall be corrosion resistant and electrolytic ally compatible with the materials used in the module frame, its fasteners, and nuts and bolts. Necessary protection towards rusting need to be provided either by coating or anodization.
- The structures shall be designed to allow easy replacement of any module. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the SPV panels
- Regarding civil structures the bidder need to take care of the load bearing capacity of the roof and need to arrange suitable structures based on the quality of roof.
- The total load of the structure (when installed with PV modules) on the terrace should be less than 60 kg/m².

Junction Boxes:

- The junction boxes are to be provided in the PV array for termination of connecting cables. The J. Boxes (JBs) shall be made with full dust, water & vermin proof arrangement. All wires/cables must be terminated through cable lugs. The JB's shall be such that input & output termination can be made through suitable cable glands
- Copper bus bars/ terminal blocks housed in the junction box with suitable termination threads Conforming to IP65 standard and IEC 62208 Hinged door with rubber gasket to prevent water entry. Single / double compression cable glands. Provision of earthing. It should be placed at suitable height for ease of accessibility.
- Each Junction Box shall have High quality Suitable capacity SPDs, suitable Reverse Blocking Diodes. The Junction Boxes shall have suitable arrangement monitoring and disconnection for each of the groups.
- Suitable markings shall be provided on the bus bar for easy identification and the cable ferrules must be fitted at the cable termination points for identification

AC Distribution Panel Board:

- AC Distribution Panel Board (DPB) shall control the AC power from PCU/ inverter, and should have necessary surge arrestors. Interconnection from ACDB to mains at LT Bus bar while in grid tied mode.
- All switches and the circuit breakers, connectors should conform to IEC 60947, part I, II and III/ IS 60947 part I, II and III.
- All the Panels shall be totally enclosed, rigid, insulated, cubical type suitable for operation on three phase/single phase, 415 or 230 volts, 50Hz.
- The panels shall be designed for minimum expected ambient temperature of 45 degree Celsius, 80 percent humidity and dusty weather.
- All indoor panels will have protection of IP54 or better. All outdoor panels will have protection of IP65 or better.

- Should conform to Indian Electricity Act and rules (till last amendment).
- All the 415 AC or 230 volts devices / equipment like bus support insulators, circuit breakers, SPDs, VTs etc., mounted inside the switchgear shall be suitable for continuous operation and satisfactory performance under the following supply conditions.

Variation in supply voltage	+/-10%
Variation in supply frequency	+/-3HZ

PCU/Array Size Ratio:

- The combined wattage of all inverters should not be less than rated capacity of power plant under STC.
- Maximum power point tracker shall be integrated in the PCU/ inverter to maximize energy drawn from the array.

PCU/Inverter:

As SPV array produce direct current electricity, it is necessary to convert this direct current into alternating current and adjust the voltage levels to match the grid voltage. Conversion shall be achieved using an electronic Inverter and the associated control and protection devices. All these components of the system are termed the “Power Conditioning Unit (PCU)”. In addition, the PCU shall also house MPPT (Maximum Power Point Tracker), an interface between Solar PV array & the Inverter. Inverter output should be compatible with the grid frequency. Typical technical features of the inverter shall be as follows:

- Switching devices: IGBT/MOSFET
- Control: Microprocessor/DSP
- Nominal AC output voltage and frequency: 415V, 3Phase, 50Hz
- Output frequency: 50Hz
- Grid Frequency Synchronization range: +3Hz or more
- Ambient temperature considered : -20 deg C to 50 deg C
- Humidity: 95% Non-condensing
- Protection of Enclosure: IP-20(Minimum) for indoor IP65 for outdoor.
- Grid Frequency Tolerance range: +3 or more
- Grid Voltage tolerance: -20% & +15%
- No-load losses: Less than 1% of rated power
- Inverter efficiency(minimum): >95% (In case of 10 kW or above)
- THD : < 3%
- PF : > 0.9
- Three phase PCU/ inverter shall be used with each power plant system (10kW and/or above).
- PCU/inverter shall be capable of complete automatic operation including wake-up, synchronization & shutdown.
- The output of power factor of PCU inverter is suitable for all voltage ranges or sinks of reactive power; inverter should have internal protection arrangement against any sustainable fault in feeder line and against the lightning on feeder.
- Built-in meter and data logger to monitor plant performance through external computer shall be provided.
- The power conditioning units / inverters should comply with applicable IEC/ equivalent BIS standard for efficiency measurements and environmental tests as per standard codes

IEC61683/IS61683 and IEC60068-2(1, 2, 14, 30)/ Equivalent BIS Std.

- The charge controller (if any) / MPPT units environmental testing should qualify IEC 60068-2(1, 2, 14, 30)/Equivalent BIS STD. The junction boxes/ enclosures should be IP 65(for outdoor)/IP54 (indoor) and as per IEC529 specifications.
- Anti-islanding (Protection against Islanding of grid): The PCU shall have anti islanding protection in conformity to IEEE 1547/UL 1741/ IEC 62116 or equivalent BIS standard.
- The PCU/inverters should be tested from the MNRE approved test centers/NABL/BIS/IEC accredited testing- calibration laboratories. In case of imported power conditioning units, these should be approved by international test houses.

Integration with Grid:

The output power from SPV would be fed to the inverters which converts DC produced by SPV array to AC and feeds it into the main electricity grid after synchronization. In case of grid failure or low or high voltage, solar PV system shall be out of synchronization and shall be disconnected from the grid.

Data Acquisition System/Plant Monitoring:

- Data Acquisition System shall be provided for each of the solar PV plant.
- Data Logging Provision for plant control and monitoring, time and date stamped system data logs for analysis. Metering and Instrumentation for display of systems parameters and status indication to be provided.
- Solar Irradiance: An integrating Pyrano meter/irradiation sensor provided, with the sensor mounted in the plane of the array. Readout integrated with data logging system.
- Temperature: Temperature probes for recording the Solar panel temperature and/ or ambient temperature to be provided complete with readouts integrated with the data logging system.
- The following parameters are accessible via the operating interface display in real time separately for solar power plant.
 - AC Voltage.
 - AC Output current.
 - Output Power
 - Power factor.
 - DC Input Voltage.
 - DC Input Current.
 - Time Active
 - Time disabled
 - Time Idle
 - Power produced
 - Protective function limits (Viz.-AC Over voltage, AC Under voltage, over frequency, under frequency ground fault, PV starting voltage, PV stopping voltage.)
- All major parameters available on the digital bus and logging facility for energy auditing through the internal microprocessor and read on the digital front panel at any time) and logging facility (the current values, previous values for up to a month and the average values) should be made available for energy auditing through the internal micro processor and should be read on the digital front panel.
- Computerized DC String/Array monitoring and AC output monitoring shall be provided as part of the inverter and/ or string/ array combiner box or separately.
- String and array DC Voltage, Current and Power, Inverter AC output voltage and current (All 3 phases and lines), AC power (Active, Reactive and Apparent), Power Factor and AC energy (All 3 phases and cumulative) and frequency shall be monitored.
- Computerized AC energy monitoring shall be in addition to the digital AC energy meter.

- All instantaneous data shall be shown on the computer screen.
- Provision for Internet monitoring and download of data shall be also incorporated.
- Simultaneous monitoring of DC and AC electrical voltage, current, power, energy and other data of the plant for correlation with solar and environment data shall be provided.
- Remote Monitoring and data acquisition through Remote Monitoring System
- Software with latest software/hardware configuration and service connectivity for online / real-time data monitoring/ control complete to be supplied and operation and maintenance/control to be ensured by the supplier.

Metering:

- The bi-directional electronic energy meters as per the statutory requirements of DISCOMs shall be installed for the measurement of import/Export of energy. Getting statutory requirements and installation of bi-directional meters shall be in contractors installer scope including the cost therein)
- The bidder must take approval/NOC from the Concerned DISCOM for the connectivity, technical feasibility, and synchronization of SPV plant with distribution network.
- Reverse power relay shall be provided by bidder (if necessary), as per the local DISCOM requirement.

Power Consumption:

Regarding the generated power consumption, priority need to give for internal consumption first and there after any excess power can be exported to grid. Decisions of appropriate authority like DISCOM, state regulator may be followed.

Protections:

The system should be provided with all necessary protections like earthing, lightning, and grid islanding. Both AC & DC lines should have suitable MCB/MCCB, Contractors, SPD, and HRC Fuse etc. to allow safe start up and shut down before & after string inverter installed in the system.

Lightning Protect

The SPV power plants shall be provided with lightning & over voltage protection. The main aim in this protection shall be to reduce the over voltage to a tolerable value before it reaches the PV or other sub system components. The source of over voltage can be lightning, atmosphere disturbances etc. The entire space occupying the SPV array shall be suitably protected against Lightning by deploying required number of Lightning Arrestors. Each LA should have dedicatedly earthed through suitable size earth bus with earth pits.

Surge Protection

Internal surge protection shall consist of three MOV type surge-arrestors connected from +ve and –ve terminals to earth (via Y arrangement)

Earthing Protection

- Each array structure of the PV yard should be grounded/ earthed properly as per IS: 3043. In addition the lightning arrester/masts should also be earthed inside the array field. PCU/Inverter and ACDB should also be earthed properly.
- Earth resistance shall not be more than 5 ohms. It shall be ensured that all the earthing points are bonded together to make the matte same potential.

Grid Islanding:

- In the event of a power failure on the electric grid, it is required that any independent power-producing inverters attached to the grid turn off in a short period of time. This prevents the DC-to-AC inverters from continuing to feed power into small sections of the grid, known as "islands." Powered islands present a risk to workers who may expect the area to be unpowered, and they may also damage grid-tied equipment. The Rooftop PV system shall be equipped with islanding protection. In addition to disconnection from the grid (due to islanding protection) disconnection due to under and over voltage conditions shall also be provided.
- A manual disconnect 4pole isolation switch beside automatic disconnection to grid would have to be provided at utility end to isolate the grid connection by the utility personnel to carry out any maintenance. The utility personnel shall lock this switch.

Cables/Wire:

Cables of appropriate sizes are to be used in the system. All connections should be properly made through suitable lug/terminal crimped with use of suitable proper cable glands. The size of cables/wires should be designed considering the line losses, maximum load on line, keeping voltage drop within permissible limit and other related factors. The cable/wire should be of ISI/ISO mark for overhead distribution.

The cables should have the following characteristics:

- Shall meet IS standards
- Excellent resistance to heat, cold, water, oil, abrasion, UV radiation
- Flexible Sizes of cables between arrays inter connections; array to junction boxes, junction boxes to Inverter etc. shall be selected to keep the voltage drop (power loss) of the entire solar system to the minimum. The cables (as per IS) should be insulated with a special grade PVC compound formulated for outdoor use.
- The size of each type of DC cable selected shall be based on minimum voltage drop however; the maximum drop shall be limited to 1%.
- The size of each type of AC cable selected shall be based on minimum voltage drop however; the maximum drop shall be limited to 2 %.

All the cables required for the plant shall be provided by the bidder. Any change in cabling sizes if desired by the bidder/approved after citing appropriate reasons. All cable schedules/layout drawings approved prior to installation.

All cables conform to latest edition of IEC/ equivalent BIS Standards, Standard description Standard Number Cables General Test and measuring methods.

All the cables should be laid in appropriate cable tray as per the requirement of the site

Connectivity:

The maximum capacity for interconnection with the grid at a specific voltage level shall be as specified in the Distribution Code/Supply Code of the State and amended from time to time.

Following criteria have been suggested for selection of voltage level in the distribution system for ready reference of the solar suppliers.

Plant Capacity	Connecting Voltage
Upto10KW	240V-single phase or 415V–three phase at the option of the consumer.
Above 10 KW and upto100KW	415 V-Three Phase
Above 100 KW	AT HT/EHT as per DISCOM rules level(11KV/33KV/66KV)

BID Evaluation Process

The Bid Evaluation Committee comprising of MPCON and MPTBC officials and subject experts will evaluate the bids. The decision of the Committee in the evaluation of the PQ and Financial Bids shall be final.

Pre-Qualification

The pre-qualification process and mechanism has been detailed in the tender documents in Clause 4.0. The bidders who are eligible in the pre-qualification round will further be technically evaluated as mentioned below.

Technical Evaluation Criterion:

The following marking system will be used for technical evaluation of the bidders:

S.N	Criteria	Marking Basis	Max. Marks	Documentary Proofs
1	Average Annual Turnover	Min. average annual turnover of Rs. 1.00 Crores in past 3 financial years	10	Annual Audit Reports
2	Solar Installations	Min. cumulative installed capacity in the past 5 financial years should be 500 kWp= 10 Marks Additional 5 Marks for additional 500 kWp installed upto a max. of 20 Marks	20	List of installations alongwith copies of POs/Work Orders/ Completion Certificates
3	Solar Installations	Atleast one grid- tied solar project of 35 kWp operational since past 5 Years= 10 Marks Additional 10 Marks for additional capacities installed and operational since past 5 years	20	List of installations alongwith copies of POs/Work Orders/ Completion Certificates
4	Understanding, approach, work plan and methodology	Following parameters will be evaluated- Understanding of the project- 10 Marks Strategy to implement the project within the stipulated time period- 15 Marks	25 Marks	Presentation by the Bidder to the Technical Evaluation Committee
5	Technical Presentation with Technical Support Strategy	Following parameters will be evaluated- Comprehensive understanding of the project technical. Issues and likely approach/plan for smooth implementation- 10 Marks	25 Marks	Presentation by the Bidder to the Technical Evaluation Committee

		Post installations operation and maintenance experience and plan for the same for the projects bid for-15 Marks		
		Total	100	

(Minimum 70 Marks to qualify in the technical bid)

Evaluation of Financial Proposals:

The bidders will be given scores using the following basis-

- 70% weightage will be given to Technical Score
- 30% weightage will be given to Financial Score*

The quoted amount indicated in the financial bid shall only be considered. MPCON will determine whether the financial proposal are complete in all aspects and is unconditional. The cost indicated in the financial proposal shall be deemed as Final and reflecting the total cost of work/services.

*The following formula will be used to calculate the financial score-

$$S_f = 100 \times F_m / F$$

S_f is the Financial score

F_m is the lowest price quoted

F is the price quoted by the respective bidders

The total Score shall be calculated as follows-

$$S = (S_t \times 0.70) + (S_f \times 0.30)$$

Where S is the Total Score

S_t is the Technical Score

S_f is the Financial Score

The winner of the bid will be the highest score (S) maker, subsequently the ranking will be done.

**VIDEO CONFERENCING AND CCTV
WORKS AT VARIOUS ESTABLISHMENTS
OF MP TEXT BOOK CORPORATION**

TENDER ID - MPC202104047

MPCON LIMITED, BHOPAL



**INVITES TENDERS ON BEHALF OF
MP TEXTBOOK CORPORATION, BHOPAL**



FOR

**DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND ONE YEAR
MAINTENANCE OF VIDEO CONFERENCING AND CCTV WORKS AT VARIOUS
ESTABLISHMENTS OF MP TEXT BOOK CORPORATION**

Last date of submission of Tender: **Up to 12.00 P.M. (IST) on 28.06.2021**
Opening of Tenders: **2.30 P.M. (IST) on 28.06.2021**

OFFICE OF THE MANAGING DIRECTOR, MPCON LIMITED, BHOPAL

NIT No. MPC202104047

Dated: 07.06.2021

NOTICE INVITING TENDER

MPCON LIMITED, BHOPAL on behalf of MP TEXT BOOK CORPORATION, BHOPAL invites Tender for Supply, Installation, Testing, Commissioning and One Year Maintenance of Video Conferencing & CCTV Works at various establishments of MP TEXT BOOK CORPORATION, Arera Hills, Bhopal.

Tenders are invited in two (02) bid system (Technical & Financial bid) from Reputed Vendors, who have experience of more than 5 years in the similar field.

NAME OF WORK: Supply, Installation, Testing, Commissioning and One Year Maintenance of Video Conferencing & CCTV Works at various establishments of MP TEXT BOOK CORPORATION, Arera Hills, Bhopal.

Estimated Cost: Rs.26.00 Lakhs

Earnest Money Deposit: Rs.1.00 Lakhs

PBG: 5% of the contract value

Period of Completion: 3 Months from the date of issue of Work Order

Last date of submission of bid: 28.06.2021 upto 12.00 pm

Bidders will be able to download the document from www.mpconsultancy.org from 07-06-2021 4:00 PM onwards. The bids have to be submitted in physical copies in the office of MPCON Limited latest by 28-06-2021 12.00 PM. All the updates regarding the tendering process shall be updated on the website only.

All the queries related to this tender shall be entertained on email id: sb.jain@mpconsultancy.org up to the date & time mentioned in the bid document, any communication after the due date will not be entertained.

Managing Director
MPCON Limited

Disclaimer

Though adequate care has been taken in the preparation of this RFP document, the interested bidders shall satisfy themselves that the document is complete in all respects; the information published in this document is not intended to be exhaustive. Interested Bidders are required to make their own enquiries and assumptions wherever required. Intimation of discrepancy, if any, should be given to the specified e-mail id mentioned in the pre-bid column up to the date & time specified. If no intimation is received by this office by the date mentioned in the document, it shall be deemed that the RFP document is complete in all respects and firms submitting their bids have understood completely and are satisfied with the terms and conditions mentioned in it. No claim shall be made after the due dates and time given for the particular activity mentioned in the schedule above.

MPCON Limited and MP Text Book Corporation has the right to reject any or all of the applications submitted in response to this RFP document or cancel the entire tender at any stage without assigning any reasons whatsoever. **MPCON Limited and MP Text Book Corporation** also reserves the right to withhold or withdraw the process at any stage with intimation to all who have submitted their bids in response to this RFP.

MPCON Limited and MP Text Book Corporation reserves the right to change/ modify/ amend any or all of the provisions of this RFP document without assigning any reason. Any such change would be communicated to the bidders by posting it on the website www.mpconsultancy.org

Neither **MPCON Limited and MP Text Book Corporation** nor their employees and any associates will have any liability to any prospective Bidder interested to apply or any other person under the law of contract to the principles or resolution or unjust enrichment or otherwise for any loss, expense or damage which may raise from or be incurred or suffered in connection with anything contained in this RFP document, any matter deemed to form part of this RFP document, the award of the assignment, the information and any other information supplied by or on behalf of **MPCON Limited and MP Text Book Corporation** or their employees and Prime Bidder or Consortium Partner or otherwise arising in any way from the selection process for the assignment.

Information provided in this document or imparted to any Bidder as part of RFP process is confidential to **MPCON Limited and MP Text Book Corporation** and shall not be used by the Bidder for any other purpose, distributed, or shared with any other person or organization.

TENDER DETAILS

4.1. The details of the Tender are as under:

S. No.	Description	Details
1.	Name of work	Supply, Installation, Testing, Commissioning and One Year Maintenance Of Video Conferencing & CCTV Works at various establishments of MP TEXT BOOK CORPORATION, Arera Hills, Bhopal. The details of the proposed installations and list of the locations are as per Annexure-2.
2.	Time allowed for completion	3 Months
3.	Cost of Tender Papers (Processing fee) Non-refundable	Rs.2500/- (Rupees Two thousand five hundred only) plus 18% GST, through online payment to MP Text Book Corporation Bhopal. The Bank details are as follows: Account No.- 20027312046 Type of Account: Current Account IFSC Code: IDIB000B796 Bank: Indian Bank, Arera Colony, Bhopal The receipt of payment to be submitted along with the technical bid. Without tender processing fee tender will be rejected.
4.	Earnest Money Deposit(EMD)	Rs. 1.00 Lakhs to be paid in the form of Demand Draft in favor of MP Text Book Corporation, Bhopal. EMD will be exempted for MSME Bidders.
5.	Performance Security	5% of the Contract Value to be submitted by the successful bidder within 15 days from the award of Letter of Intent. The Performance Security can be submitted in the form of Bank Guarantee or DD in favor of MP Text Book Corporation Bhopal . After submission of the Performance Security, Contract will be awarded to the bidder. This amount shall be released on the successful commissioning of the plants.
6.	Security Deposit	5% of Contract Value will be deducted from contractor's bill and will be refunded after completion of one year of successful running and attending to all defects satisfactorily during the maintenance period of 1 year.
7.	Date of issue of Online Tender Documents	07.06.2021 to 27.06.2021 from website www.mpconsultancy.org Hard copy can be obtained from MP CON Ltd. Ground Floor, Rajiv Gandhi Bhawan-2, 35, Shyamla Hills, Bhopal 462002 upon submission of Demand Draft/Cash as per cost aforementioned.
8.	Address at which hard copy to be submitted	MP CON Ltd. Ground Floor Rajiv Gandhi Bhawan-2, 35, Shyamla Hills Bhopal 462002
9.	Last date of submission of technical& financial bid.	12.00 P.M (IST) on 28.06.2021

10.	Date and time of opening of Technical & Financial Bids	Technical bid 28.06.2021 at 2.30 P.M and financial bid will open on 29.06.2021 at 3.00 pm at the above address in presence of the vendors or their authorized representative who desires to be present. Price Bid will be opened on the same date or a <u>later date</u> , for those who qualify in Technical Bid and presentation on the basis of technical evaluation is annexed in annexure no 3.
11.	Liquidated damages	0.50% of Contract amount per week of delay in completion of work subject to maximum 5% of contract value or final bill value.
12.	Defect Liability period	12 Months from date of completion of work
13.	Terms of Payment	<p>70% of Contract Value shall be paid against delivery of all materials at site and after due inspection & verification by MPCON official regarding the same.</p> <p>25% of Contract Value shall be paid after installation and successful testing of the operational system.</p> <p>5% shall be retained as Security Deposit. On submission of Bank Guarantee, the 5% amount will be released to the Contractor. The Bank Guarantee will be returned to the contractor after completion of 1 year period, provided the contractor attends to all defects satisfactorily during the maintenance period of 1 year.</p> <p>No Advance will be paid to the Contractor.</p>
14.	Validity of Tender	90 days from the date of opening of price bid
15.	Consortium or JV	No consortium or JV shall be permitted. Eligible Bidder shall bid in its individual capacity.
16.	Eligible taxes	Contractor should have GST registration number. Invoice should specifically/separately disclose the amount of GST levied at applicable rate as per GST provisions/Rules. Bidding shall be inclusive of all taxes and will be borne by the vendor.

4.2. Information Regarding Submission of Tenders

Eligible vendors should download the tender documents from www.mpcconsultancy.org website and submit the completed sealed tender document in physical copies in the office of MPCON Limited, Bhopal.

Vendors should submit the hard copies of the Technical and financial bids in 02 (two) separate sealed cover and super scribed with the name of the work. Both the Technical and financial bid should be in a separate large envelope sealed and super scribed with the name of the work.

Technical bid: Technical bid should contain the following:-

- vi) Receipt of Tender processing fee
- vii) Receipt of EMD/Demand Draft and/or MSME Certificate (for exemption)
- viii) Details as per eligibility criteria
- ix) All tender papers duly signed & stamped by the vendor.
- x) Copy of completed projects in proof of experience.

Without any one of the above in the Technical bid, the Tender will be rejected and price bid will be returned without being opened.

Financial/Price Bid: Vendor should submit the price bid in a separate sealed envelope. The price bid should only contain the priced offers and general rebate (if any).

Any condition in the price bid will be liable for rejection of tender.

4.3. Pre Bid Enquiry

All pre bid enquiry can be submitted till 3:00 pm on 12 June, 2021. To be received from the companies official email id only at our e-mail id: sb.jain@mpconsultancy.org as per the format given in the tender document.

Queries addressed to any other email id or in physical form shall not be considered.

Reply of queries shall be by 17 June, 2021. If needed, pre-bid meeting will be organized for which prior intimation to the bidders will be given.

Tenderers are advised to inspect the site before submission of the tender in order to get acquainted with the proposed work and site condition and satisfy themselves before quoting the rate. No deviation in condition or specification or additional items shall be entertained at a later date.

In case the date of opening of tenders is declared as a holiday, the tenders will be opened on the next working day at the same time & venue.

5. ELIGIBILITY

The applicant should be a well-established and reputed Indian Firm having experience in installation of at least 5 systems anywhere in India operational for the last 2 years. (Copy of work order showing an experience of the same must be enclosed). The bidder must have installed at least one system of similar volume capacity which is operational since past 2 years.

NOTE:

- d. "similar "works under this clause shall mean "successful completion of installation of Video Conferencing & CCTV systems"
- e. "Cost of work" shall mean actual gross value of completed "similar" work including all the components executed under single contract. The applicant shall submit a certificate or bill of each project executed by them, during the said period.
- f. All the above said completed works should be for some Central / State Government /Autonomous Body/Central/State Public Sector undertaking and/or private sector Industries and Institutions etc.

S.no	Basic Requirement	Description	Documents Required
1	Legal Entity	<ul style="list-style-type: none">• An entity registered under Indian Companies Act1956/2013, registered firm, proprietorship firm, or institutional organization.• Valid PAN card and GST registration in India.• Registered office in India, which is operational for at least last 5years• The bidder should have office in Bhopal (MP).	<ul style="list-style-type: none">• Certificate of incorporation• Registration Certificates along with Bylaws/MOA&AOA or similar legal document.• Copies of PAN, TIN and GST• Office details• Local Office Detail(Bhopal ,MP)
2	Turnover	<ul style="list-style-type: none">• The bidder should have average annual turnover of minimum Rs. One Crore in last three financial years (2017-18, 2018-19, 2019-20) from similar business.	<ul style="list-style-type: none">• Audited Balance Sheet and Financial Statements along with CA Certificate
3	Technical Capability/ Experience	<ul style="list-style-type: none">• The bidder must have an experience of setting up at least 5 systems in the last 2 years.• The bidder must have installed at least one system of similar volume capacity which is operational since past 2 years.	<ul style="list-style-type: none">• Completion Certificates and work order or purchase order copy.• Documentary evidence of eligibility regarding installation of systems.
4	Blacklisting/ Terminations	<ul style="list-style-type: none">• The bidder hasn't been black listed by any institution of the Central/state government in the past Five Years.	<ul style="list-style-type: none">• An Affidavit signed by the authorized signatory

6. INSTRUCTION TO THE BIDDERS

6.1. TENDERING PROCESS

- 3.1.4 Tender documents can be downloaded from website www.mpconsultancy.org. However, the tender document of those bidders shall be acceptable who have made online payment for the tender documents fee of Rs. 2500/- (Rs. Two Thousand Five Hundred only) plus GST, without which bids will not be accepted. The tender document fee in the form of Demand Draft payable to MP Text Book Corporation Bhopal can however be submitted in the bid documents.
- 3.1.5 Bidders are requested to visit our website regularly for any clarifications and or due date extension or corrigendum.
- 3.1.6 MPCON shall not be responsible in any way for delay/ difficulties/ inaccessibility of the downloading facility from the website for any reason whatsoever.

6.2. GENERAL INSTRUCTIONS

- 3.2.12 The applicants should go through carefully & ensure that the complete TENDER document contains all pages of the document. The applicant should ensure that every page of the downloaded Tender document and supporting materials is signed by applicant with stamp (seal) of the applicant company and all the blanks are filled by them suitably.
- 3.2.13 The applicant should ensure that the downloaded Tender document is properly sealed before submitting the same and any correction / addition / alteration / omission, made in the Tender document by the applicant, shall be treated as non-responsive and the application shall be summarily rejected.
- 3.2.14 Bidders shall provide evidence of relevant technical experience and qualification.
- 3.2.15 Bidder shall have a minimum of 5 years of experience in relevant business.
- 3.2.16 The Bidder is requested to furnish document to establish their eligibility for each of the above clauses. Relevant portion, in the documents submitted in pursuance of eligibility criterion mentioned above, should be highlighted. If tender were not accompanied by all the above documents mentioned, the same would be rejected.
- 3.2.17 The bid submitted by any bidder not fulfilling the eligibility conditions/ criteria stipulated above, will not be considered and treated as rejected during the technical evaluation process.
- 3.2.18 MPCON reserves the right to seek fresh set of document or seek clarification on the already/submitted documents. Upon verification, evaluation/assessment, if incase any information furnished by the Bidder is found to be false/ incorrect, their bid shall be summarily rejected and no correspondence on the same shall be entertained.
- 3.2.19 Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices by the Bank/Recognized Government Body.
- 3.2.20 Consortium or JV is not allowed and the bidder shall be solely responsible to meet all the terms and conditions of this RFP.

3.2.21 MPCON reserves the right to place an extension order for any new requirement/change request on mutually agreed terms & condition with MP TEXT BOOK CORPORATION. The capacity and/or number of systems may increase or decrease upto 50%, if so needed, on the same terms and conditions.

6.3. PERFORMANCE SECURITY

- f. The successful Bidder has to furnish a performance security as to guarantee the performance of the contract.
- g. The Successful bidder has to submit Performance Guarantee:-

The Successful bidder has to submit Performance Bank Guarantee or Performance Security deposit @ **5%** of Total Project Cost value within 15 days from the date of issue of Letter of Intent for the duration of project through any of the Nationalized Bank including the public sector bank or Private Sector Banks authorized by RBI or Commercial Bank (operating in India having branch at Bhopal), in the name of Managing Director, MP Text Book Corporation, Bhopal Madhya Pradesh. On receipt of Performance Guarantee, firm Work Order will be released in the name of the party.

- h. The Performance security shall be payable to MP Text Book Corporation, as compensation for any loss resulting from the Vendor's failure to complete its obligations under the Contract.
- i. No interest shall be payable on the PBG amount. MP Text Book Corporation Bhopal may invoke the above bank guarantee for any kind of recoveries.
- j. The Bid security will be forfeited on account of one or more of the following reasons :
 - iv. The Bidder withdraws its Proposal during the period of proposal validity.
 - v. Bidder does not respond to requests for clarification of its proposal.
 - vi. In case of a successful Bidder, the said Bidder fails-to sign the Agreement in time.

6.4. PROJECT DURATION

The total duration of project would be 90 working Days including Supply, Installation, Commissioning, and testing of the systems at all the locations. On successful Commissioning of the plant, the Operations and Maintenance period for 12 Months would be started.

6.5. PENALTY

If the project is not completed within the Scheduled delivery period, a Penalty@ 0.5% per week or part there of subject to a maximum of 5% shall be imposed which will be deducted from the Invoice.

6.6. DEFECT LIABILITY

The Defect Liability period shall be 12 (twelve) months from the date of completion. The contractor has to undertake to attend repairs/rectify the defects within 48 hours what so ever during the defects liability period.

6.7. INSURANCE

Transit insurance up to the arrival at destination and till project completion, shall be arranged by the VENDOR and shall communicate details of goods as soon as these are dispatched. The VENDOR shall be solely responsible and held liable to pay for the loss incurred during transit.

6.8. GUARANTEES AND PERFORMANCE

The vendor shall guarantee the design, materials and workmanship as well as satisfactory operation of all items of the plant, machinery and equipment offered by him, with respect to all individual items and collective items comprising a group of equipment and for the whole plant and equipment in accordance with the performance requirements indicated in the tender documents. In this respect, the tenderer shall indicate clearly in his offer the details of various outputs, accuracy, consumption and performance test procedure as well as guarantees for the plant and equipment offered the Penalties payable in case of non-fulfillment of performance guarantees up to acceptable tolerance limits.

The vendor shall undertake to rectify at its expense any defect coming from an error in the design, raw material or manufacturing of the equipment within period of **12 months** from the date of commissioning or **12 months** from the date of dispatch, whichever is earlier.

6.9. FORCE MAJEURE

Notwithstanding anything contained in the RFP, the bidder shall not be liable for liquidated damages or termination for default, if and to the extent that, its delays in performance or other failures to perform its obligations under the result of an event of Force Majeure.

For purposes of this clause “Force Majeure” means an event beyond the control of the selected bidder and not involving the selected bidder’s fault or negligence and which was not foreseeable. Such events may include wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargos. The decision of MPCON regarding Force Majeure shall be final and binding on the selected bidder.

If a Force Majeure situation arises, the selected bidder shall promptly notify to MPCON in writing, of such conditions and the cause thereof. Otherwise directed by MPCON in writing, the selected bidder shall continue to perform its obligations under the agreement as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

6.10. RESOLUTION OF DISPUTE

The Parties agree that the avoidance or early resolution of disputes is crucial for a smooth execution of the Contract and the success of the assignment. The Parties shall use their best-efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.

Any Dispute or Difference whatsoever arising between the parties to the Agreement or relating to the Objective, meaning, scope, operation or effect of the Agreement or validity of the breach thereof, which cannot be resolved through negotiation process, shall be referred to the sole Arbitrator, Managing Director MPCON whose decision shall be final.

All legal disputes between the parties shall be subject to the jurisdiction of the court situated in Bhopal, Madhya Pradesh only.

6.11. BINDING CLAUSE

All decisions taken by **MPCON** regarding the processing this tender and award of contract shall be final and binding on all parties concerned.

7. BID EVALUATION

The bid evaluation committee constituted by MPCON shall evaluate bids. This will involve the representations from MP Text Book Corporation, MPCON and subject experts. The decision of the bid evaluation committee in the evaluation of the PQ and Financial Bids shall be final.

7.1. Technical Evaluation

Pre-qualification bid documentation shall be evaluated as under:

- f. The initial eligibility criteria prescribed above (in respect of experience of similar nature of work completed) shall be first scrutinized and the applicant's eligibility for pre-qualification for the work will be determined
- g. Only the applicants who meet the initial eligibility criteria specified as above will be further evaluated on the basis of details furnished by them.
- h. The evaluation committee will check if the bidder has deposited the tender document fee along with the Technical Proposal and the same are found to be in order.
- i. The documentation furnished by the bidder will be examined prima-facie to see if the agency's capacity, skill base and other Bidder attributes as claimed there in are consistent with the needs of this project. If needed, the selection committee may ask for formal presentation by the bidders to further evaluate and screen the bidders.
- j. MPCON may ask bidder(s) for additional information, and or arrange discussions with their professional, technical resource to verify claims made in bid documentation. If the bidder fails to submit the additional supporting documents, the bid shall be rejected.

7.2. Commercial Evaluation

- f. Bid evaluation committee will evaluate and compare the bids determined to be substantially responsive. It is bid evaluation committee's intent to select the proposal that is most responsive to the project needs and each will be evaluated using the criteria and process outlined in this section.
- g. Financial Bids will be opened of only those bidders who are qualified in the pre-qualification.
- h. Financial Bids of the non-responsive and disqualified bidders will not be opened.
- i. The evaluation shall be strictly based on the information and supporting documents provided by the bidders. It is the responsibility of bidders to provide all supporting documents as listed in forms necessary to fulfill the mandatory eligibility criteria. If needed, the selection committee may ask for formal presentation by the bidders to further evaluate and screen the bidders.
- j. Even though an applicant may satisfy the above requirements, he would be liable to disqualification if he has:
 - Made misleading or false representation or deliberately suppressed the information in the forms, statements prescribed in the prequalification document.
 - Record of poor performance such as, abandoning work, not properly completing the contract, or financial failures/weaknesses, etc.

7.3. Contract Finalization

The bidder duly qualified and selected in the technical bid and presentation offering the lowest value will be selected for award of the contract.

- MPCON shall notify to the bidder, through a Letter of Intent that its bid has been accepted. The letter of intent will be accompanied by Performa for agreements between the parties.
- After issuance of LOI, if the successful bidder denies accepting the LOI or executing the project, the bidder will be blacklisted.
- In case the L1 bidder denies accepting the LOI and/or fails to submit the Performance Bank Guarantee within the specified time period, the bidder who has quoted L2 rates will be offered the work under the same terms and conditions and at L1 rates.

- MPCON will be free to cancel the whole tender, if it finds it deem fit to do so.
- Within 15 working days of receipt of the Lol, the successful bidder shall furnish the Performance Bank Guarantee.
- On receipt of the Performance Guarantee, the successful bidder shall be issued work order. The selected bidder will initiate the execution of the work as specified in the agreement.
- The contractor shall bear all expenses in connection with the execution of the said agreement including fees for stamps and registration of documents as required/ applicable.
- The contractor is required to comply with all acts of Government relating to labor and the rules and regulation made there under from time to time.
- Before starting the job, vendor should prepare drawing & design of Video Conferencing System and CCTV System for each location and get it duly approved by MPCON.

7.4. Payment Terms

- 4.4.7 No advance shall be paid
- 4.4.8 70% of Contract Value shall be paid against delivery of all materials at site and after due inspection & verification by MPCON official regarding the same.
- 4.4.9 25% of Contract Value shall be paid after installation and successful testing of the operational system.
- 4.4.10 5% shall be retained as Security Deposit. On submission of Bank Guarantee, the 5% amount will be released to the Contractor. The Bank Guarantee will be returned to the contractor after completion of 1 year period, provided the contractor attends to all defects satisfactorily during the maintenance period of 1 year.
- 4.4.11 TAX DEDUCTION AT SOURCE: Applicable taxes will be deducted at source as per the rate prevalent at the time of payment of the bill.

8. TECHNICAL SPECIFICATIONS

The scope of work and general conditions are mentioned in the following paragraphs.

The technical specifications of the individual equipments/components of Video Conferencing and CCTV Systems are detailed in Annexure-1.

5.1 Scope of Work

The scope of work shall include the following:

- a. Design and Delivery of all equipment's materials for the captioned work, to the site including packing, handling, transporting, loading/unloading etc at site.
- b. Installation, Testing and commissioning of the systems and handing over to the assigned authority of **MP TEXT BOOK CORPORATION**, Bhopal.
- c. Providing regular upkeeps & maintenance inclusive of providing spare parts free of cost, periodic services for a period of 1 Year.

Tenderer are advised to inspect the site in consultation before submission of the tender in order to acquaint with the proposed work and site conditions.

5.9 Quality and Workmanship

All works shall be under taken with the highest levels of quality and workmanship. During inspection MPCON will pay special attention to neatness of work execution and conform it to quality and safety norms. Non-compliant works will have to be done at the cost of the Installer.

5.10 Drawings and Manual:

- Two sets of layout drawings and Installation and O&M manuals SOP are to be supplied. Bidders shall provide complete technical data sheets for each of the equipment giving details of the specifications along with make/makes.
- Approved ISI and reputed makes for equipment be used.
- MPCON reserves the right to modify the design, layout and specification of sub-systems and components at any stage as per local site conditions/requirements.

5.11 Safety Measures:

The bidder shall take entire responsibility for electrical safety of the installations.

FORMATS AND ANNEXURES

**Performa of Compliance Letter/Authenticity of Information
(On Non judicial Stamp paper of Rs.100/-)**

Date:

To,

The Managing Director
MPCON Limited, Bhopal

Sub: Compliance with the tender terms and conditions, specifications and Eligibility Criteria

Ref: Bid for Supply, Installation, Testing, Commissioning and One Year Maintenance of Video Conferencing & CCTV Works at various establishments of MP TEXT BOOK CORPORATION, Arera Hills, Bhopal. (Tender no. MPC202104047).

Dear Sir,

With reference to above referred tender, I, undersigned <<**Name of Signatory**>>, in the capacity of <<**Designation of Signatory**>>, is authorized to give the undertaking on behalf of <<**Name of the bidder**>>. We wish to inform you that we have read and understood the technical specification and total requirement of the above mentioned bid. We hereby confirm that all our quoted items meet the requirement and are absolutely compliant with specifications mentioned in the bid document.

We also explicitly understand that all quoted items meet all technical specification of each item and services desired in the bid and that such technical specification overrides the brochures/standard literature if the same contradicts or is absent in brochures.

In case of breach of any tender terms and conditions or deviation from bid specification other than already specified as mentioned above, the decision of Managing Director MPCON will be final and accepted to us.

All the Information provided in our submitted bid is true and correct. In case any information provided by us are found to be false or incorrect, you have right to reject our bid at any stage including forfeiture of our PBG/ cancel the award of contract. In this event, MPCON reserves the right to take legal action on us.

Thanking you,

Dated: _____

Signature: _____

(In the Capacity of): _____

Duly authorized to sign bid for and on behalf of

Note: This form should be signed by authorized signatory of bidder

APPLICATION FORM

1	Name of the organization:	
2	Address:	
3	Name: Telephone Nos.: Mobile: E-mail id of Contact Person:	
4	Status of the Firm: (Whether Public or Private Ltd Company/Firm/Proprietary	
5	Year of Establishment: (Supporting document to be submitted):	
6	Whether registered with the Registrar of Companies / Registrar of firms. (if so, mention number and date and supporting documents to be submitted):	
7	Income Tax PAN No.	
8	GST No	
9	TIN No.	
10	Trade License Particulars:	
11	Names of Directors / Proprietor /Partners/Associates	
12	Details of "Similar" Nature of works: Completed during the last 5 years. (Details may be attached in separate sheet)	
13	Latest Income Tax Clearance Certificate/:(Copies of Last 3years IT Return submitted to be enclosed)	
14	List of empanelment/enlistment/registration with other Organizations /statutory bodies etc. If so furnish their names, category and date of registration:	
15	Annual turnover for the last 3 financial years(year-wise) ending 31.03.2021 as per Audited Balance Sheet:	

	FY2019-20	
	FY2018-19	
	FY2017-18	
16	Name and address of persons who will be in a position to certify about the quality as well as performance of applicant firm:	

Authorized Signatory

PRE BID CLARIFICATION FORMAT

Name of Organization					
Name & Position of person					
Full formal address Including phone, mobile and email					
S. No.	Page No.	Clause No.	Clause heading	Query/ Clarification sought	Suggestion

BLACKLISTING DECLARATION FORMAT
To be furnished on Letter Head

Date:
Place:

TO WHOMSOEVER IT MAY CONCERN

I hereby declare that **<Organization Name>** as on date of is not blacklisted by any Central Government/State Government or any other organization in past three years, if found guilty after signing this declaration, we agree that the bid submitted by the **<Organization Name>** will be disqualified even after issuing the work order/signing the agreement.

Authorized Signatory

Name
Designation

Company Name
Address
Contact Details

PRICE BID FORMAT

PRICE BID

Name of Work: Supply, Installation, Testing, Commissioning and One Year Maintenance of Video Conferencing & CCTV Works at various establishments of MP TEXT BOOK CORPORATION, Arera Hills, Bhopal.

Name of Bidder: _____

S. No	Description	Price Quoted in Rupees inclusive of all taxes
1	Supply, Installation, Testing, Commissioning of Video Conferencing System in 17 locations of MP Text Book Corporation.	
2	Supply, Installation, Testing, Commissioning of CCTV System- a) 16 camera system covering the entire campus for Pipalner Depot. b) 8 camera system covering the entire campus for Pustak Bhawan, MP Text Book Corporation, Arera Hills, Bhopal.	
3	Maintenance of the above systems for 1 year period.	
	Total	

Amount in words: Rupees _____

The above rates are inclusive of all expenses, duties and taxes. MPCON will not be liable for any payment over and above on cost as quoted in bid.

Signature of the Authorized Signatory:

Name of the authorized Signatory:

Seal of Company:

PERFORMANCE GUARANTEE FORMAT

(To be submitted on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

In consideration of the [Insert name of the Bidder] (Herein after referred to as Contractor) submitting the response to Tender No. MPC202104047 dated issued by MP CON Limited on behalf of MP Text Book Corporation Ltd and MP CON considering such response to the Bid of [Insert the name of the selected Contractor] (Which expression shall unless repugnant to the context or meaning thereof include its executors, administrators, successors and assignees) and selecting the Contractor and issuing Letter of Intent no to (Insert Name of selected Contractor) as per terms of the tender and the same having been accepted by the selected Company M/s

As per the terms of the tender, the [insert name & address of bank] hereby agrees unequivocally, irrevocably and unconditionally to pay to M.P Text Book Corporation at Bhopal forthwith on demand in writing from M.P Text Book Corporation or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees..... [Total value] only, on behalf of M/s [Insert name of the selected Contractor]. This guarantee shall be valid and binding on this Bank up to and including..... and shall not be terminable by notice or any change in the constitution of the Bank or the term of contract or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rs.....

Our Guarantee shall remain in force until..... M.P Text Book Corporation shall be entitled to invoke this Guarantee till [Insert date which is 90 days after the date in the preceding sentence].

The Guarantor Bank hereby agrees and acknowledges that M.P Text Book Corporation shall have a right to invoke this BANK GUARANTEE in part or in full, as it may deem fit.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand by M.P Text Book Corporation, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to M.P Text Book Corporation.

The Guarantor Bank shall make payment here under on first demand without restriction or conditions and notwithstanding any objection by ----- [Insert name of the selected bidder]. The Guarantor Bank shall not require M.P Text Book Corporation to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against M.P Text Book Corporation in respect of any payment made here under.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at Bhopal shall have exclusive jurisdiction.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly MPCON shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the selected Contractor, to make any claim against or any demand on the Empanelled Vendor or to give any notice to the selected Contractor or to enforce any security held by M.P Text Book Corporation or to exercise, levy or enforce any distress, diligence or other process against the selected Contractor.

Notwithstanding anything contained herein above, our liability under this Guarantee is restricted to Rs..... (Rs..... only) and it shall remain in force until [Insert date which is 90 days after the date in the preceding sentence].

We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if M.P Text Book Corporation serves upon us a written claim or demand.

Signature

Name

Power of Attorney No.

For,

..... [Insert the bank name]

Banker's Stamp and Full Address.

Dated this day of, 2021

Witness:

1.

2.

Signature

Name and Address

Signature

Name and Address

Notes:

1. The Stamp Paper should be in the name of the Executing Bank and of appropriate value.

2. The Performance Bank Guarantee (PBG) shall be executed by any of the Nationalized Bank only.

INDICATIVE SPECIFICATIONS**Video Conferencing**

Cross Platform Support (BYOD) -	Windows and macOS
Camera Quality-	Full HD 1080p
Camera View Angle-	110°
Digital Zoom-	3X through application
Microphone-	4 Acoustic MEMS Microphones
Voice Capture Distance-	5m Radius Voice Capture (extendable up to 20m depending on Environment conditions)
Microphone Features-	VAD (Voice Activity Detection) and DOA (Direction of Arrival)
Integrated Voice DSP Features-	4-mic adaptive beam former Full-duplex Acoustic Echo Cancellation (AEC) with barge-in Support (up to 50dB att.) De-reverberation, noise suppression (up to 15dB att.), Automatic Gain Control (AEC)
Power Requirement-	5V
Connectivity-	I/O Micro USB, DC In
Accessories (Standard)-	Micro USB cable
Automatic Low-light optimizer-	Yes
Visual Appearance Enhancer-	Yes
Support platform-	Zoom, Microsoft team, Skype etc.
Cables-	Micro USB cables, HDMI Cables
TV	Full HD 1080 P television set of 43 inch.
Mini PC	Mini PC Kit with dual core processor i3/i5 mountable on/behind TV.

CCTV

Network Video Recorder	8 Channel, 5MP / 4MP / 3MP / 1080P / 960P / 720P high definition NVR. The NVR must ensure high definition recording in each channel and realize outstanding robustness of the system, simultaneous 8 CH playbacks, and high definition display. The product should meet different security requirements of home, financial, commerce, enterprise, transportation and government, etc.
IP Camera	3 MP Pixels, 1 / 2.8" Progressive Scan CMOS, Auto / Manual White Balance, Auto / Manual AGC, 5.5 ~ 88 mm Focal Length, 360° endless rotation Pan range, Manual control speed: 0.1° ~ 120°/s; preset speed: 160°/s Pan Speed, 0 ~ 90° Tilt Range, Manual control speed: 0.1° ~ 50°/s; preset speed:

	50°/s Tilt Speed, 256 presets, H.265 / H.264 / MJPEG Video Compression, Built-in RJ45 network port, support 10M / 100M network data, Built-in Micro SD card slot, support manual recording, DC12V 4000 mA (15W, max 30W) Power supply, IP66, IK10, TVS6KV lightning protection, surge protection
PoE Switch	8*10/100 Downstream Ports, 1*10/100Base Uplink Ports, IEEE802.3, IEEE802.3u, IEEE802.3X Network Standards, minimum 1.8GbpsSwitch Capacity, Sufficient Memory Buffer, 15.4 W PoE Power Output, 48V/2APower Supply,
Cable	Enhanced performance cable for transmission of high speed digital data and video signals on LAN. 23 AWG Solid bare Copper, High density polyethylene insulation, FR-PVC sheath and compatible with all connection systems.
Hard Disk Drive	1/2 Tera Bytes capacity
Other accessories	Camera Box, Connectors, Power Supply System etc.

List of Locations

S.no	NAME OF DEPOT	ADDRESS OF DEPOT
1	भोपाल	म. प्र. पाठ्यपुस्तक निगम भंडार, डी 20 विपणनसंघ की दानेदार खादगोदाम, नवदुनिया प्रेस के पास, भोपाल
2	होशंगाबाद	म. प्र. पाठ्यपुस्तक निगम भंडार, इंडियन गैस गोडाउन के पीछे कोठी बाजार, होशंगाबाद
3	इंदौर	म. प्र. पाठ्यपुस्तक निगम भंडार, 6/1 रेसकोर्स रोड, इंदौर
4	उज्जैन	म. प्र. पाठ्यपुस्तक निगम भंडार, 97 सीओद्योगिक परिसर मकसी रोड उज्जैन
5	ग्वालियर	म. प्र. पाठ्यपुस्तक निगम भंडार, उपसंचालक शिक्षा एवं दूरभाष कार्यालय के पास ग्वालियर
6	गुना	म. प्र. पाठ्यपुस्तक निगम भंडार, नानाखेडी प्लॉट नं 41 साईस्टेट कॉलोनी एबी रोड गुना
7	जबलपुर	म. प्र. पाठ्य पुस्तक निगम भंडार, 23/18 मदन महल शारदा चौक नागपुर रोड गली नं 2 जबलपुर
8	सिवनी	म. प्र. पाठ्यपुस्तक निगम भंडार, आधुनिक कॉलोनी कटंगी रोड शिवनी
9	शहडोल	म. प्र. पाठ्यपुस्तक निगम भंडार, राजेन्द्र टॉकीज के पीछे शहडोल
10	रीवा	म. प्र. पाठ्यपुस्तक निगम भंडार, श्रीराम मेरिज हॉल के पास चूनाभट्टासामान रीवा
11	सागर	म. प्र. पाठ्यपुस्तक निगम भंडार, 52 महर्षि दयानंद वार्ड सागर
12	पन्ना	म. प्र. पाठ्य पुस्तक निगम भंडार, कमलासदन मोहन निवास चौराहे के पास छतरपुर रोड पन्ना

13	खंडवा	म. प्र. पाठ्यपुस्तक निगम भंडार, भवानी माता रोड ,अंजनी टॉकीज के पीछे खंडवा
14	सीधी	म. प्र. पाठ्यपुस्तक निगम भंडार, ऑडीटोरियम हॉल सीधी
15	बुरहानपुर	म. प्र. पाठ्यपुस्तक निगम भंडार, गुरुद्वारा परिसर इंडियनगैस गोडाउन के पास बुरहानपुर
16	केन्द्रीय भंडार भोपाल	पीपलनेर भोपाल

BID Evaluation Process

The Bid Evaluation Committee comprising of MPCON and MPTBC officials and subject experts will evaluate the bids. The decision of the Committee in the evaluation of the PQ and Financial Bids shall be final.

Pre-Qualification

The pre-qualification process and mechanism has been detailed in the tender documents in Clause 4.0. The bidders who are eligible in the pre-qualification round will further be technically evaluated as mentioned below.

Technical Evaluation Criterion:

The following marking system will be used for technical evaluation of the bidders:

S.N	Criteria	Marking Basis	Max. Marks	Documentary Proofs
1	Average Annual Turnover	Min. average annual turnover of Rs. 1.00 Crores in past 3 financial years	10	Annual Audit Reports
2	No. of Installations	Min. cumulative installed systems in the past 2 financial years should be 5 Systems= 10 Marks Additional 5 Marks for additional 5 Systems installed upto a max. of 20 Marks	20	List of installations alongwith copies of POs/Work Orders/ Completion Certificates
3	Similar Installations	Atleast one system installed and operational since past 2 Years= 10 Marks Additional 10 Marks for additional Systems of similar capacity installed and operational since past 2 years	20	List of installations along with copies of POs/Work Orders/ Completion Certificates
4	Understanding, approach, work plan and methodology	Following parameters will be evaluated- Understanding of the project- 10 Marks Strategy to implement the project within the stipulated time period- 15 Marks	25 Marks	Presentation by the Bidder to the Technical Evaluation Committee
5	Technical Presentation with Technical	Following parameters will be evaluated-	25 Marks	Presentation by the Bidder to the Technical

	Support Strategy	Comprehensive understanding of the project technical. Issues and likely approach/plan for smooth implementation- 10 Marks Post installations operation and maintenance experience and plan for the same for the projects bidded for-15 Marks		Evaluation Committee
		Total	100	

(Minimum 70 Marks to qualify in the technical bid)

Evaluation of Financial Proposals:

The bidders will be given scores using the following basis-

- 70% weightage will be given to Technical Score
- 30% weightage will be given to Financial Score*

The quoted amount indicated in the financial bid shall only be considered. MPCON will determine whether the financial proposals are complete in all aspects and is unconditional. The cost indicated in the financial proposal shall be deemed as final and reflecting the total cost of work/services.

*The following formula will be used to calculate the financial score-

$$S_f = 100 \times F_m / F$$

S_f is the financial score

F_m is the lowest price quoted

F is the price quoted by the respective bidders

The total Score shall be calculated as follows-

$$S = (S_t \times 0.70) + (S_f \times 0.30)$$

Where S is the Total Score

S_t is the Technical Score

S_f is the Financial Score

The winner of the bid will be the highest score (S) maker, subsequently the ranking will be done.