



Name of Work: **“Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi.”**

NIT No. -167-ITPO (16)E-E/CE(P)/24-25/ 05

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NIT contains from page no.1- 53 of amounting Rs. 6,08,29,709/- incl. GST @18% hereby approved.

SM(E)

Chief Engineer (Projects)

Annexure: I
INDIA TRADE PROMOTION ORGANISATION
E-TENDER NOTICE

Online item rate bids are invited through two bid system for “Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi”. from “Specialized agencies “for the following work-

S.No.	Name of work	Time for Completion	Estimated Cost (Rs)	Earnest Money (Rs)	Cost of Tender (Rs)
1.	“Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi’.	60 days	6,08,29,709/-	12,16,594/-	1180/- i/c GST

a. The tender documents are available on our website www.indiatradefair.com(for reference only) & www.eprocure.gov.in and same can be down loaded.

1. Eligibility Criteria:

1.1 Pre-qualification Criteria

Each Bidder shall ensure that it fulfils the following Pre-Qualification Criteria prior to submitting the Bid.

Bids submitted by only eligible Bidders will be considered for further evaluation. The Pre-Qualification

Criteria is mentioned herein below:

S.No.	Criteria	Documents to be submitted
1.	The agency should be a legal business entity / registered firm/ company having office and service centre in India. The agency should have Certificate of Registration for PAN, GST, ESIC and EPF.	Incorporation certificate, PAN, GST, ESIC, EPF documents to be submitted at the time of applying.
2.	The agency/OEM should have satisfactorily completed the work of SITC of Façade lighting work as mentioned below during the last seven years up to 31.03.2024. i) One work costing not less than Rs. 4,86,63,767/. OR ii) Two works each costing not less than Rs. 3,64,97,825/- OR	Completion certificate issued by authority for government/PSU works. OR In case of work experience from non-government/ non-PSU organizations, bidder shall submit copy of TDS certificate (tax deduction at source) along

	<p>iii) Three works each costing not less than Rs. 2,43,31,883/-</p> <p>Similar work means- “SITC of Façade lighting work”.</p> <p>The value of the executed work shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to previous day of last day of submission of tenders. The Works should have been executed in the same name in which present bid is made. Joint ventures are not accepted.</p>	<p>with completion certificate as applicable. The completion certificate issued by the officer in charge will have to be furnished along with all the details. The completion certificate must clearly indicate:</p> <p>- That the work has been completed satisfactorily.</p>
3.	<p>Bidder will have to upload the copy of BOQ to support their claim in respect of execution of “Similar Works”. Only value of related items to façade lighting work. Other work executed will not be considered as eligibility criteria.”</p>	<p>Copy of BOQ to be submitted at the time of bidding.</p>
4.	<p>The Agency/OEM should have had average annual financial turnover of Rs.3,08,98,747/- during last three financial years ending 31st March. 2024.</p>	<p>CA certified certificate mentioning Financial Turnover of last 3 years as per the period as specified below in form –A.</p>
5.	<p>The agency/OEM should have a Solvency equal to Rs.2,43,31,883/- certified by his bankers (on the format prescribed in form-B) or net-worth certificate equal to Rs.60,82,970/- (on the format prescribed in form- C) issued by the certified Chartered Accountant with UDIN.</p>	<p>Certified copies of Solvency and net worth certificate should be uploaded on portal at the time of submission of bid.</p>
6.	<p>The agency/OEM should not have been blacklisted by any government agency.</p>	<p>Self-Declaration</p>
7.	<p>The Agency/OEM should have Audited profit and loss statement and balance sheet last three financial years (2021-22,2022-23 & 2023-24).</p>	<p>Documents to be submitted at the time of bidding.</p>
8.	<p>OEM/Bidder who have been blacklisted / debarred by Tender Inviting Authority or blacklisted/ debarred by any State Government or Central Government Department/ Organization/ Board/ Corporation should not participate in the tender during the period of blacklisting.</p>	<p>Self-Declaration</p>

9.	<p>The tenderer shall submit at the time of submission of bid, an individual undertaking from the OEM.</p> <p>a. Authorization Certificate</p> <p>b. The OEM shall unconditionally support the lowest tenderer technically throughout the execution of contract as well as for Guarantee period/ Maintenance/ Comprehensive Maintenance Contract for the useful life of the system, and</p> <p>c. OEM shall declare availability of the spares required whenever needed for healthy functioning of the equipment for at least Seven years from the date of supply of equipment.</p> <p>Note: - In case of non-submission of undertaking as listed above (a,b,c) along with performance guarantee, the performance guarantee shall not be accepted and the EMD of the lowest tender shall be forfeited and shall not be allowed for further bidding in this work.</p>	Documents to be submitted at the time of bidding.
10.	OEM should have own Service/Experience Center in Delhi, Delhi - NCR from last 1 years.	Copies of relevant GST registration certificates/ Agreement.

1.2 Evaluation Methodology

The Evaluation would be done on two stages viz. (i) Technical Evaluation and (ii) Financial Evaluation.

i) Evaluation of Technical Proposal:

Bidders are required to qualify all the conditions of the Clause No. 1.1. "Pre-Qualification Criteria". Financial bids of only those technically qualified bidders whose solutions are found to be compliant to the technical and operational requirement as mentioned in the tender document, will be opened.

ii) Evaluation of Financial Proposal:

The contract shall be awarded to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further

that the Bidder is determined to be qualified to perform the contract satisfactorily.

FORM-A
FINANCIAL INFORMATION
Financial Turnover of last 3 years

Description	Financial year (2021-22) Rs.	Financial year (2022-23) Rs.	Financial year (2023-24) Rs.
Gross Annual Turnover			

Signature of Chartered Accountant with Seal

Signature of Bidder(s).

ii. The agency/company Should have a Solvency equal to 40 % of the estimated cost put to tender, certified by his bankers (on the format prescribed in form -B) or net worth certificate equal to 10% of the estimate cost put to tender (on the format prescribed in form- C) issued by the certified Chartered Accountant with UDIN. The Certified copies of Solvency and net worth certificate should be uploaded on portal at the time of submission of bid. (The Related further details if required may be asked from the contractor after opening of eligibility bids. There is no need to upload entire voluminous balance sheet.)

FORM-B
SOLVENCY CERTIFICATE FROM A SCHEDULED BANK

This is to certify that to the best of our knowledge and information that M/s/Sh.
having marginally noted address,Customer of our bank are/is
 respectable and can be treated as good for any engagement up to a limit of
 Rs..... Rupees). This certificate is issued without
 any guarantee or responsibility on the bank or any of the officers.

(Signature) For the Bank

NOTE :

- i. Bankers certificates should be on letter head of the Bank,
- ii. In case of partnership firm, certificate should include names of all partners as recorded with the Bank.

FORM- C

NET WORTH FROM CHARTERED ACCOUNTANT

It is to certify that as per the audited balance sheet and profit and loss account during the financial year..... , the Net Worth of M/s(Name & Registered Address of Individual/firm/company), as on(the relevant date) is Rs. after considering all liabilities. It is further certified that the Net worth of the company has not eroded by more than 30% in the last five years ending on (the relevant date).”

Signature of Chartered Accountant

Name of Chartered Accountant:

Membership No. of ICAI:

Date and

Seal:

7. The bidder can submit shortfall documents in online system if required and permit by tender inviting officer, except the mandatory eligibility documents e.g Tender fee, EMD etc.
9. While selecting any of the cells in the BOQ, a warning appears that if any cell is left black the same shall be treated as “0”. Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as “0” (ZERO).
10. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of ITPO is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor’s service.
11. The contractor shall not be permitted to bid for works in ITPO, if the contractor or any of his/ her near relatives are posted in ITPO. He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him/her and who are near relatives to any officer in ITPO or ministry of commerce and industries. Any breach of this condition by the contractor would render him liable to be removed from the contract and further works in ITPO.
12. Tender documents may be downloaded from ITPO’s web site www.indiatradefair.com (for reference only) and CPPP site <https://eprocure.gov.in/eprocure/app> as per the schedule as given in CRITICAL DATE SHEET as under.\

INDICATIVE CRITICAL DATE SHEET

Published Date	09/01/2025
Bid Document Download Start Date	09/01/2025
Pre bid meeting Date	13/01/2025 at 2:30PM
Bid Submission Start Date	09/01/2025
Bid Submission End Date	20/01/2025 at 03.00 PM
Bid Opening Date	21/01/2025 at 03.00 AM

13. Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>. Tenderers/Contractors are advised to follow the instructions provided in the 'Instructions to the Contractors/Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>'. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

Pre bid meeting will be held on 13-01-2025 at 2:30 PM in the chamber of CE(P), Admin building, Bharat Mandapam. For any queries intending bidders may contact –

Senior Manager (Electrical), Room No. 35, IIIrd Floor Admin building, Bharat Mandapam. Email Id: Pragdeepkumar@itpo.gov.in. Mobile No. : 8178515250

Any queries after pre bid meeting shall not be entertained.

14. Not more than one tender shall be submitted by one contractor or contractors having business relationship. Under no circumstance will father and his son(s) or other close relations who have Business relationship with one another (i.e when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.

15. Tenderer who has downloaded the tender from the ITPO's web site www.indiatradefair.com and Central Public Procurement Portal (CPPP) website <https://eprocure.gov.in/eprocure/app>, **shall not modify the tender form including downloaded price bid template in any manner**. In case if the same is found to be tempered/modified in any manner, tender will be completely rejected and tenderer is liable to be banned from doing business with ITPO.

16. Intending tenderers are advised to visit again ITPO website www.indiatradefair.com and CPPP website <https://eprocure.gov.in/eprocure/app> at least 2 days prior to closing date of submission of tender for any corrigendum / addendum/ amendment.

List of Documents to be scanned and uploaded within the period of bid submission:

1. Copy of receipt for deposition of EMD and Tender fee to ITPO.
2. Copy of PAN Card.

3. Copy of GST registration.
4. Copy of ESIC and EPF registration.
5. Copy of Valid Electrical License issued by Govt. Of NCT of Delhi.
6. Certificates of Work Experience as per NIT.
7. Annual Financial Certificate certified by CA as per NIT (Form-A).
8. Solvency Certificate as per NIT (Form-B) or Net worth Certificate as per NIT (Form-C).
9. Any other documents as per NIT.

EMD Payment & Tender cost:

Earnest Money Deposit & Cost of tender is to be deposited electronically by NEFT/RTGS in the account of ITPO at the below mentioned details or DD in favour of ITPO payable at New Delhi. Bidders are required to submit the details of EMD payment at the time of Bid Preparation.

BANK Details for EMD Payment through NEFT/RTGS:

Name of the Beneficiary	:	India Trade Promotion Organisation
Name of the Bank	:	Central Bank of India
Branch Address	:	Bharat Mandapam, New Delhi
Account No.	:	1167404133
Type of Account	:	Saving
RTGs Code	:	CBIN 0284078
MICR CODE	:	110016150
PAN NO.	:	AAATI2955C

- a. The Hard Copy of original documents in respect of cost of tender document and EMD must be delivered to the **Sr. Manager (Electrical)** India Trade Promotion Organisation, Room No. 35, Admin building, Bharat Mandapam, in case payment is made by DD, on or before last date/time of submission of bid as mentioned in critical date sheet. **Tenderer shall likely to be liable to be rejected for non-submission of original payment documents mentioned as above, against the submitted bid. The Demand Draft attached/submitted for tender fee shall be non-refundable.**
- b. Bids will be opened as per date/time as mentioned in the **Tender Critical Date Sheet**. After online opening of Technical-Bid the results of their qualification as well Price-Bid opening will be intimated latter.

Due consideration and relaxation in the norms for MSME/NSIC/Startup/MSE in Public procurement will be given as per the directions issued by Govt. of India and also preference would be given to SC/ST – MSME entrepreneurs up to 4% within the 20% ceiling earmarked for MSME entrepreneurs subject to the production of valid /relevant registration documents for the specific work i.e. **“Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi”**. as required in NIT.

- **Submission of Tender**

The tender shall be submitted online in **Two part, viz., technical bid and financial bid.**

All the pages of bid being submitted must be signed wherever required, and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading. The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.

- **Technical Bid**

The following documents are to be furnished/ uploaded by the Contractor along with **Technical Bid within the period of bid submission** as per the tender document (As applicable):

- i) Scanned copy of Demand Draft/ RTGS of any scheduled Bank for tender fee and EMD.
- ii) Scanned copy of PAN, EPF, ESIC and GST registration.
- iii) Certificate of Work Experience /Completion certificate issued by an officer in charge/ Project manager executing the work (**TDS certificate is mandatory if work experience is from private sector**).
- iv) Scanned copy of Tender Acceptance Letter & Price Bid undertaking.
- v) Copy of Valid Electrical License issued by Govt. Of NCT of Delhi.
- vi) Scanned copy of abstract of final bill of the completion certificates.
- vii) Certificate of solvency Or Net worth as per NIT.
- viii) Blacklisted self-declaration.
- ix) Any other documents as per NIT.

Financial Bid

- (a) Schedule of price bid in the form of BOQ_XXXX .xls. format

Annexure: II
Instructions for Online Bid Submission:

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- 2) Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “**Online bidder Enrolment**” on the CPP Portal which is free of charge.
- 3) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 4) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 5) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 6) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
- 7) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise, the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online,

without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

- 6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 8) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is
- 9) Maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids (i.e after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

Annexure: III
TENDER ACCEPTANCE LETTER

(To be given on Company Letter Head)

Date:

To,

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Work: - “Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi”.

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned ‘Tender/Work’ from the web site(s) namely:

as per your advertisement, given in the above-mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.

6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract , without prejudice to any other rights or remedy .

Yours Faithfully,
(Signature of the Bidder, with Official Seal)

Annexure: IV

FINANCIAL BID UNDERTAKING

From: (Full name and address of the Bidder) _____

To,

Dear Sir/Madam,

I submit the Price Bid for **“Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi”**.

- 1. I have thoroughly examined and understood all the terms and conditions as contained in the Bid document, and agree to abide by them.**

- 2. I offer to work at the rates as indicated in the price Bid, Annexure IV inclusive of all applicable taxes with GST@18%.**

Authorized Signatory

(Signature of the Authorized Person)

INTEGRITY PACT

To,

Sub: NIT No. - - - - -

for the work **“Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi”.**

Dear Sir,

It is hereby declared that ITPO is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement on behalf of the ITPO.

Yours faithfully,

(Sr. Manager Electrical))

Sample Image of Façade Lighting at Bharat Mandapam (Indicative Image)



**GOVERNMENT OF INDIA
INDIA TRADE PROMOTION ORGANISATION**

General Detail of Notice Inviting Tender

Item rate tenders through e-tendering are invited on behalf of the CMD, ITPO from the specialized agencies dealing in the field of “**Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi**”.in two bid system up to 15.00 PM on **20.01.2024** which will be opened by him (or) his authorized representative at **15.00 PM on 21.01.2024** for the work of “**Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi**”.

The work is estimated to cost **Rs 6,08,29,709 /-**. This estimate, however, is given merely as a rough guide.

1. Agreement shall be drawn with the successful tenderer on prescribed Form No. C.P.W.D. 7/8 which is available as a Govt. of India publication. Tenderer should quote his rates as per various terms and conditions of the said form which shall form part of the agreement.
2. **The time allowed for the completion of work is 60 days.**
3. The site for the work is available. OR The site for the work shall be made available in part as specified in scope of work .
4. Tenders shall be accompanied with Earnest money of **Rs. 12,16,594/- & Tender Fee of Rs. 1180/-** (demand drafts of a scheduled bank issued in favour of India Trade Promotion Organisation, New Delhi or NEFT/RTGS).
5. The Contractor, whose tender is accepted, will be required to furnish performance guarantee of 5% (Five percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of Demand Draft of any scheduled bank/Pay order of any scheduled bank (in case guarantee amount is less than Rs.1, 00,000/-) or Government Securities or Fixed Deposit Receipts in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule ‘F’, including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. Copies of other drawings and documents pertaining to the works will be open for inspection by the tenderer at the office of the above-mentioned officer. Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other

contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

6. The competent authority on behalf of the CMD, ITPO does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
7. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing shall be liable to rejection.
8. The competent authority on behalf of CMD, ITPO reserve the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
9. No Engineer of Gazetted rank or other Gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the contractor's service.
10. The tender for the works shall remain open for acceptance for a period of **Seventy five (75) days** from the date of opening of financial bid ,in case tenders are invited on 2/3 envelope system (strike out as the case may be) if any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the Government , without prejudice to any other right or remedy, be at liberty **to reject the tender** as aforesaid. Further the tenderer not be allowed to participate in the re-tendering process of the work.
11. This Notice Inviting Tender shall form a part of the contract document. The successful tenderer/ contractor on acceptance of his tender by the Accepting Authority, **within 7days** from the stipulated date of start of the work, sign the contract consisting of:-
 - (i) Non-Judicial Stamp for **Rs. 100/-**
 - (ii) Schedule of Work with terms and conditions.
 - (iii) GCC-2023 for construction work
 - (iv) And any other relevant documents

SCHEDULE 'E'

Schedule of component of Cement, Steel, other materials, Labour etc. for price escalation. - Nil

CLAUSE 10 CC

Component of Cement – expressed as percent of total value work.

N/A

Component of Steel-expressed as percent of total work.

N/A

Component of civil (except cement & steel)/Electrical construction

N/A

Materials-expressed as percent of total value of work.

Component of labour-expressed as per cent of total value of work.

N/A

Component of P.O.L. – expressed as percent of total value work.

N/A

SCHEDULE 'F'

Reference to General Conditions of contract- CPWD, GCC 2023 for construction work as amended up to date.

Name of work: **“Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi”.**

(i) Estimated cost of work	Rs. 6,08,29,709 /-
(ii) Earnest money:	Rs. 12,16,594/-
(iii) Performance Guarantee	5 % of tendered value
(iv) Security Deposit	2.5% of actual work done

General Rules & Directions

Officer inviting tender

Sr. Manager (Elect.)

Maximum percentage for quantity of items of work to be executed beyond Which rates are to be determined in accordance with applicable Clauses.

No Limit

Definitions

2(v) Engineer-in-Charge

Sr. Manager(E)

2(viii) Accepting Authority

As per DFPR Sch. V of ITPO as modified up to date.

2(x) Percentage on cost of materials and

15%

Labour to cover all overheads and profits.

2(xi) Standard Schedule of Rates

Market rates

2(xii) Department
(Electrical Engg.)

ITPO

9(ii) Standard CPWD contract Form
corrected up to date

CPWD form 7/8 as modified &

Clause 1

(i) Time allowed for submission of Performance Guarantee
From the date of issue of letter of acceptance

7 days

(ii) Maximum allowable extension beyond the period

(Provided in i) above

4 days

Clause 2

Authority for fixing compensation under clause 2.

CE (Projects)

Clause 2A

Whether clause 2A shall applicable

No

Clause 5

Number of days from the date of issue of letter
Acceptance for reckoning date of start

7 days

Mile stone(s) as per table given below:

Table of Mile Stone(s)

Sl. No.	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be withheld in case of non-achievement of milestone
1.	-	-	As per the conditions of contract
2.	-	-	- do-
3.	-	-	- do-
4.	-	-	- do-

Time allowed for execution of work 60 days
 Clause 6 ----- Applicable
 Clause 7 **Gross work to be done together with net payment/adjustment payment or advance for material collected, if any since the last such for being eligible to interim payment** 350 lakhs

Clause 10A
List of testing equipment to be provided by the contractor at site lab As per the requirement of engineer in charge at site
 Clause 10 B (ii)
Whether Clauses 10 B (ii) shall be applicable No

Clause 10CA

Materials covered under this clause Nearest Material for which All India Wholesale Price Index is to be Followed NA

Clause 10CC
Clause 10CC to be applicable in contracts with stipulated period of Completion exceeding the period show in text column 18 months

Clause 11
Specification to be followed for execution of work CPWD General Specification for Electrical Works 2023, Part I & II-with Up-to-date correction slips.

Clause 12
Deviation limit beyond which clauses 12.2 & 12.3 100%

Clause 16
Competent Authority for deciding reduced rates. CE (P)

Clause 18
List of mandatory machinery, tools & plants to be deployed by the contractor at site:
 -As per the site requirement and as per direction of Engineer In charge

Clause 36

S.N.	Minimum qualification of Technical Representative	Number of Major+ Minor	Discipline	Designation (Principal Technical/Technical representative)	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)
1.	Graduate Engineer Graduate Engineer or	1 1+1	E&M Software/ Hardware Engineer	Technical	2 or 5 Years Respectively	3 No.	25000/-per month 15000/-per month

	Diploma Engineer						per person

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

CLAUSE 42

N/A

(i) Schedule/statement for determining theoretical quantity of cement & Bitumen on the basis of Delhi Schedule of Rates DSR 2018 printed by C.P.W.D.

(ii) Variations permissible on theoretical quantities.

- | | |
|--|------------|
| a) Cement for works with estimated cost put to
Tender not more than Rs. 5 Lakhs For works with estimated cost put to tender More than 5 Lakhs | N/A
N/A |
| b) Bitumen for all works | N/A |
| c) Steel Reinforcement and structural steel
Sections for each diameter, section and category | N/A |
| d) All other materials | Nil |

**INDIA TRADE PROMOTION ORGANISATION
(Engineering Division)**

CORRIGENDUM TO FORM 7/8/9 (CPWD) MUST BE READ ALONGWITH THE PAMPHLET

S.N	FOR	READ
1.	Govt. of India	India Trade Promotion Organisation (A Govt. of India Undertaking)
2.	CPWD of Government	India Trade Promotion Organisation
3.	CPWD – 7/8/9	ITPO – 7/8
4.	President/President of India	CMD, ITPO
5.	Chief – Engineer	CE(P)
6.	Superintending Engineer	Deputy. General Manager (Elect.)
7.	Engineer-in-charge/ Divisional Engineer/ Executive Engineer/ Divisional Office	Sr. Manager (Elect.)
8.	Sub-Divisional Officer/Asstt. Engineer	Manager (Elect.)
9.	C.T.E.	CE(P)
10	Admn. Head	C.M.D.
11	Ministry of Works & Housing	ITPO/Ministry of Commerce
12	CPWD Code, Paragraph'90	Shall be applicable to ITPO works.
13	DSR-2022	Shall be applicable to ITPO works.
14	CPWD specifications	Shall be applicable to ITPO works.
15	DSR(Internal) 2022 for Electrical wo	Shall be applicable to ITPO works.
16	CPWD specifications (Internal Electrical works	Shall be applicable to ITPO works.
17	DSR External 2022 for Electrical w specification.	Shall be applicable to ITPO works.
18	Provision of section 12 Subsection (i) of the works man compensation	Shall be applicable to ITPO works.
19	Provision of contract labour (Regulation and abolition Act 1970 and contract labour (Regulation and abolition) control rules 1971 section 20 sub-section (A) of the contract labour (Regulation and abolition Act 1970).	Shall be applicable to ITPO works.

20	Provision of the payment of wages Act, 1948 Minimum wages Act, 1948, 1947 industrial disputes Act, 1947 Material benefits Act, 1961.	Shall be applicable to ITPO works.
21	CPWD safety code framed from time	Shall be applicable to ITPO works.
22	CPWD maternity benefits to labour.	Shall be applicable to ITPO works.
23	Provision of the Arbitration Act, 1997	Shall be applicable to ITPO works.
24	Section 74 of India Contract Act, 1972	Shall be applicable to ITPO works.
25	Model Rules of the protection health and sanitary appointment for workers employed by CPWD,	Shall be applicable to ITPO works.
26	CPWD Contractor labour regulations	Shall be applicable to ITPO works.

Sr. Manager (Elect.)

TECHNICAL SPECIFICATION

Architecture Lighting for Façade illumination

1. **Wash Lights on Main Façade – All Sides:** RGBW Outdoor rated wash light, 200W $\pm 15\%$, 10000 lumens $\pm 15\%$, Efficacy $> 40\text{lm/W}$, 50° beam $\pm 15\%$, Dynamic colours and Variable CTC from 1000K to 12500K:

Supply of exterior-rated architectural wash light, IP66 rated minimum, Full spectrum RGBW flood light complete with antiglare snoot. Well homogenized light output with great efficacy up $> 40\text{ lm/w}$. The power consumption should be 200 watts $\pm 15\%$, 10000 lumens delivered $\pm 15\%$, 50° beam angle $\pm 15\%$, Dynamic colours and separate color temperature channel for CTC control from 1000K- 12500K. LED from CREE/NICHIA/LUMILED/OSRAM. The housing material should be die-cast aluminum with Electrostatically applied powder coating.

The luminaire must come with IK08 impact protection rating. It should have at least $\text{CRI} > 70$, and tight flux binning. Colour deviation lower than 2 SDCM. The driver should be integrated DC with $\text{PF} > 0.92$ &. The fixture must come with cable tails for power and DMX. Compact, durable and stylish housing made of high-pressure die cast aluminum.

The fixture must be capable of withstanding ambient temperature range of -10°C to 45°C . The lifetime of the luminaire (L_{70} @ $T_a - 35^\circ\text{C}$) should be at least 100,000 burning hours.

Luminaire should have C5-High corrosion resistance with self-declaration of ASTM B117 for 1440 hours of salt spray test. The fixtures must comply with the following certifications- BIS Certification/Global CB Certification/IECEE: IEC 60598-2-5 (IEC 60598-1) EU safety: EN 60598-2-5 (EN 60598-1), EN 62471, EN 62493/IS10322.

The fixtures must be tested for Vibration resistance: 1.0g, Sinusoidal (IEC 60068-2-6), 0,7g RMS Random (IEC 60068-2-64), 3.0g (ANSI C136-31). All mounting accessories shall be stainless steel (Minimum -316) /Polyester powder coated MS/Aluminium for all lighting fixtures.

The fixture must have passed wind load test under the following test conditions-Tested according to EN60598-2-5 Static load simulating 60 m/sec. (216 km/h) or IS 10322(Part 5/Section 5) wind force without causing failure or permanent set to mount bracket.

Luminaire should have Nano technology polyester powder coating or Chlorine Test-Verification of product robustness toward high levels of chloride environment.

The luminaire manufacturer shall provide optical performance, polar diagram and photometric data in various formats including IES files in accordance with IES 79-08. This includes all the required hardware for the successful operation of the luminaire. All the technical parameters of the luminaire need approval from Engineer-in-charge.

2. **Wash Lights on Main Façade – Between Pillars:** RGBW Outdoor rated wash light, 120W \pm 15%, 6800 lumens \pm 15%, Efficacy $>$ 40lm/W 30° beam \pm 15%, Dynamic colours and Variable CTC from 1000K to 12500K:

Supply of exterior-rated architectural wash light, IP66 rated minimum, Full spectrum RGBW flood light complete with antiglare snoot. Well homogenised light output with great efficacy up $>$ 40 lm/w. The power consumption should be 120 watts \pm 15%, 6800 lumens delivered \pm 15%, 30° beam angle \pm 15%, Dynamic colours and separate colour temperature channel for CTC control from 1000K- 12500K. LED from CREE/NICHIA/LUMILED/OSRAM. The housing material should be die-cast aluminium with Electrostatically applied powder coating.

The luminaire must come with IK08 impact protection rating. It should have at least CRI $>$ 70, and tight flux binning. Colour deviation lower than 2 SDCM. The driver should be integrated DC with PF $>$ 0.92 &. The fixture must come with cable tails for power and DMX. Compact, durable and stylish housing made of high-pressure die cast aluminium.

The fixture must be capable of withstanding ambient temperature range of -10°C to 45°C. The lifetime of the luminaire (L70 @ Ta-35deg C) should be at least 100,000 burning hours.

Luminaire should have C5-High corrosion resistance with self-declaration of ASTM B117 for 1440 hours of salt spray test. The fixtures must comply with the following certifications- BIS certification/Global CB Certification/IECEE: IEC 60598-2-5 (IEC 60598-1) EU safety: EN 60598-2-5 (EN 60598-1), EN 62471, EN 62493/IS 10322.

The fixtures must be tested for Vibration resistance: 1.0g, Sinusoidal (IEC 60068-2-6), 0,7g RMS Random (IEC 60068-2-64), 3.0g (ANSI C136-31). All mounting accessories shall be stainless steel (Minimum -316)/ Polyester powder coated MS/Aluminium for all lighting fixtures.

The fixture must have passed wind load test under the following test conditions-Tested according to EN60598-2-5 Static load simulating 60 m/sec. (216 km/h) or IS 10322(Part 5/Section 5) wind force without causing failure or permanent set to mount bracket.

Luminaire should have Nano technology polyester powder coating or Chlorine Test-Verification of product robustness toward high levels of chloride environment.

The luminaire manufacturer shall provide optical performance, polar diagram and photometric data in various formats including IES files in accordance with IES 79-08. This includes all the required hardware for the successful operation of the luminaire. All the technical parameters of the luminaire need approval from the Engineer-in-charge.

3. **Wash Lights on Pillars:** RGBW Outdoor rated Uplight light, 50W $\pm 15\%$, 3000 lumens $\pm 15\%$, Efficacy $> 40\text{lm/W}$ 11° beam $\pm 15\%$, Dynamic colours and Variable CTC from 1000K to 12500K.

Supply of exterior-rated architectural uplighter, IP66 rated minimum, Full spectrum RGBW flood light complete with antiglare snoot. Well homogenised light output with great efficacy up $> 40\text{ lm/w}$. The power consumption should be 50 watts $\pm 15\%$, 3000 lumens delivered $\pm 15\%$, 11° beam angle $\pm 15\%$, Dynamic colours and separate colour temperature channel for CTC control from 1000K- 12500K. LED from CREE/NICHIA/LUMILED/OSRAM. The housing material should be die-cast aluminium with Electrostatically applied powder coating.

The luminaire must come with IK08 impact protection rating. It should have at least CRI >70 , and tight flux binning. Colour deviation lower than 2 SDCM. The driver should be integrated DC with PF >0.92 &. The fixture must come with cable tails for power and DMX. Compact, durable and stylish housing made of high-pressure die cast aluminium.

The fixture must be capable of withstanding ambient temperature range of -10°C to 45°C . The lifetime of the luminaire (L70 @ Ta-35deg C) should be at least 100,000 burning hours.

Luminaire should have C5-High corrosion resistance with self-declaration of ASTM B117 for 1440 hours of salt spray test. The fixtures must comply with the following certifications- BIS Certification/Global CB Certification/IECEE: IEC 60598-2-5 (IEC 60598-1) EU safety: EN 60598-2-5 (EN 60598-1), EN 62471, EN 62493/IS 10322.

The fixtures must be tested for Vibration resistance: 1.0g, Sinusoidal (IEC 60068-2-6), 0,7g RMS Random (IEC 60068-2-64), 3.0g (ANSI C136-31). All mounting accessories shall be stainless steel (Minimum -316)/ Polyester powder coated MS/Aluminium for all lighting fixtures.

The fixture must have passed wind load test under the following test conditions-Tested according to EN60598-2-5 Static load simulating 60 m/sec. (216 km/h) OR IS 10322(Part 5/Section 5) wind force without causing failure or permanent set to mount bracket.

Luminaire should have Nano technology polyester powder coating or Chlorine Test-Verification of product robustness toward high levels of chloride environment

The luminaire manufacturer shall provide optical performance, polar diagram and photometric data in various formats including IES files in accordance with IES 79-08. This includes all the required hardware for the successful operation of the luminaire. All the technical parameters of the luminaire need approval from the Engineer -in charge.

4. **Linear Lights on Ramp Pillars:** 312mm \pm 15% floor surface linear, 10W \pm 15%, 500 lumens \pm 15%, Efficacy $>$ 50lm/W, 15 x 30° beam \pm 15%, Dynamic colours and Variable CTC from 1000K to 12500K.

Supply of High-performance professional wall grazing light with advanced optical glare control. Length -312mm \pm 15% long exterior-rated architectural floor surface mounted, IP66 rated at least. The power consumption should be 10 watts \pm 15%, 500 lumens delivered \pm 15%, 15 x 30°/ 15X45 deg beam angle \pm 15%. Full spectrum coverage by using RGBW colour mixing with precise wave lengths of each colour and separate color temperature channel for CTC control from 1000K- 12500K. Extra fine colour tuning as well as smooth dimming at low level of intensity. LED from CREE/NICHIA/LUMILED/OSRAM. The housing material should be die-cast aluminum with Electrostatically applied polyester powder coating.

The luminaire must come with IK08 impact protection rating. It should have at least CRI $>$ 70, and tight flux binning. The driver should be integrated DC with PF $>$ 0.92 &. The fixture must come with Junction boxes and Hybrid cables to carry both Power and Data.

The fixture must be capable of withstanding ambient temperature range of -10°C to 45°C. The lifetime of the luminaire (L70 @ Ta-35deg C) should be at least 50,000 burning hours.

Luminaire should have C5-High corrosion resistance with self-declaration of ASTM B117 for 1440 hours of salt spray test. The fixtures must comply with the following certifications- Global CB Certification/IECEE: IEC 60598-2-5 (IEC 60598-1) EU safety: EN 60598-2-5 (EN 60598-1), EN 62471, EN 62493/IS 10322.

The fixtures must be tested for Vibration resistance: 1.0g, Sinusoidal (IEC 60068-2-6), 0,7g RMS Random (IEC 60068-2-64), 3.0g (ANSI C136-31). The fixture must have passed wind load test under the following test conditions-Tested according to EN60598-2-5

Static load simulating 60 m/sec. (216 km/h) OR IS 10322(Part 5/Section 5) wind force without causing failure or permanent set to mount bracket Luminaire should have Nano technology polyester powder coating or Chlorine Test- Verification of product robustness toward high levels of chloride environment.

All mounting accessories shall be stainless steel (Minimum -316)/Polyester powder coated MS/Aluminium for all lighting fixtures. The luminaire manufacturer shall provide optical performance, polar diagram and photometric data in various formats including IES files in accordance with IES 79-08. This includes all the required hardware for the successful operation of the luminaire. All the technical parameters of the luminaire need approval from the lighting consultant. All Cables should have as per OEM standard and Complete etc. as required.

DMX Splitter

The DMX Splitter shall be rack mounted (19") suitable to work on 240 volts 50 Hz via rear connector for distribution of DMX signals. The opto isolated DMX-512 splitter shall have minimum one DMX input and five DMX output connections, the sockets being standard 3/5-pin XLR connectors. The opto isolated DMX-512 splitter shall have a power on LED and DMX active LED indication on the front panel. The opto isolated DMX-512 splitter input shall be internally terminated. The DMX Splitter should be having RDM Compatibility.

Main Panel / Distribution Board

Distribution Equipment like Electrical Distribution board, field junction boxes and luminaries junction boxes etc. – shall be designed as per the final scheme adopted for the show – for the control as well as the distribution of power / controls to various equipment in the field / control room.

These shall be indoor / outdoor type (IP 55), as applicable, and shall be painted in accordance with other equipment within the same area of mounting or painted to suit the ambience.

The components inside this distribution equipment shall be of reputed make and the quantities shall be such that there is at least 10% redundancy on the main equipment.

Outgoing terminals of the main distribution board shall be of heavy duty while the incoming / outgoing terminals of all other distribution equipment shall be screwing less terminals of high standard.

Field junction / Distribution Boxes/ Luminaries Junction shall be IP 55 made out of 2 mm thick MS sheet powder coated with screw less clip-on terminals/ or else specified and double compression glands complete as required or as specified.

Cubical panel shall be fabricated out from CRCA sheet with required bracings and supports, gasket with foam rubber to make the panel dust and vermin proof, together with degreasing and applying two coats of red oxide and two coats and stove enamel paint. The panel shall include all required hardware, moulded insulators and separators including cutting and making space in compartmental formation. The thickness of steel sheets shall be 16 SWG. It shall be complete as per the nomenclature mentioned in bill of quantities and as required at site.

Cables & Earthing

Cables for the show shall be PVC insulated (1100V grade), multi-core, copper conductor, armored / un-armoured / flexible, as per the requirements, and each core shall be of multistrand.

Cable for the DMX distribution shall be suitable size to minimize the voltage drop, over long runs and shall be suitably screened to eliminate noise. Cables for the controls shall be

of high standard and shall be designed for the use intended for. Cabling shall be done in a neat manner and all armoured cable shall either be buried in ground or laid on structure / wall / column with suitable designed spacers / saddles / clamps, such that there is a total grip of the cable and the layout is visually appealing. The spacing of these spacers / saddles / clamps shall be at least 100 cm on horizontal run and 75 cm in the Vertical run.

Cables run on saddles-spacers shall be provided with outer cover, of suitable material and finish, to merge with the ambience - the cost of which shall be included by the bidder in the cabling costs of such lots and nothing extra shall be payable as separate item in the Schedule of Prices. However, cables laid on cable trays, tray with proper cover would be paid per running meter as per requirement.

Flexible / un-armoured cable shall be laid through steel conduits / flexible lead coated conduits and all the accessories for such layout shall be of reputed / good quality. Use of 2/3/4-way junction boxes for cable distribution and use of JB with connectors shall be made wherever there is a requirement of distribution of main circuit to multiple sub-circuits.

All cable terminations shall be done using lugs of appropriate type and reputed make and all such terminations shall be ferruled as per acceptable scheme. The cables shall be terminated in various types of distribution equipment(s) using brass double compression glands or using glands suitable for lead coated flexible conduit – as the case may be. Provision shall be made on the Inside of the front panel to fix circuit directory having the FROM – TO – VIA information pasted prominently for easy identification and diagnosis.

Suitable nos. of Earth Pits as per requirement shall be provided for all Electrical circuits, near the control room. All cables laid shall have a continuous run of earth wire of suitable cross-sectional area as per requirement.

Control Computer & associated software, license and hardware with accessories for Lighting:

Rack mounted / Tablet top Console or show control computer of complete with in-built hardware interfaces for time synchronization and DMX control Windows 8/10 operating system and Artist show control software duly programmed as per existing cue of sound and light as per following details:

Show control computer complete with inbuilt interfaces for DMX and Midi ports. The PC shall be a two-unit standard rack mount PC with integrated DMX and midi output. Super quiet and compact machine shall be configured to run Showcad Artist smoothly and reliably. It shall comprise on Intel Core i7 / i9 Series Processor or above with following minimum specifications:

2.9 GHZ Memory speed processor (Intel/AMD), 16 GB RAM system memory, 20 MB Cache, 1 TB HDD storage, Hard Disk Controller, dedicated 4 GB Graphic card (NVIDIA/AMD), CD Rom, 27" LED TFT Monitor, DVD ROM, USB 3.0 interface with 4 USB ports, Wireless key board, Wireless mouse with licensed loaded Window 8/10

operating system, in built webcam, LAN, Audio Jack, VGA port, Line in - Line out and Mic in; HDMI port etc.

The above computer shall be fully loaded with software package & valid license as required for controlling the lights and other requirements compatible with at least 2048 DMX output channel. The license with the documentation shall be in the name of end user.

All cable terminations shall be done using lugs of appropriate type and reputed make and all such terminations shall be ferruled as per acceptable scheme. The cables shall be terminated in various types of distribution equipment(s) using brass double compression glands or using glands suitable for lead coated flexible conduit – as the case may be. Provision shall be made on the Inside of the front panel to fix circuit directory having the FROM – TO – VIA information pasted prominently for easy identification and diagnosis.

Suitable nos. of Earth Pits as per requirement shall be provided for all Electrical circuits, near the control room. All cables laid shall have a continuous run of earth wire of suitable cross-sectional area as per requirement.

Control Computer & associated software, license and hardware with accessories for Lighting:

Rack mounted / Tablet top Console or show control computer of complete with in-built hardware interfaces for time synchronization and DMX control Windows 8/10 operating system and Artist show control software duly programmed as per existing cue of sound and light as per following details:

Show control computer complete with inbuilt interfaces for DMX and Midi ports. The PC shall be a two-unit standard rack mount PC with integrated DMX and midi output. Super quite and compact machine shall be configured to run Showcad Artist smoothly and reliably. It shall comprise on Intel Core i7 / i9 Series Processor or above with following minimum specifications:

2.9 GHZ Memory speed processor (Intel/AMD), 16 GB RAM system memory, 20 MB Cache, 1 TB HDD storage, Hard Disk Controller, dedicated 4 GB Graphic card (NVIDIA/AMD), CD Rom, 27" LED TFT Monitor, DVD ROM, USB 3.0 interface with 4 USB ports, Wireless key board, Wireless mouse with licensed loaded Window 8/10 operating system, in built webcam, LAN, Audio Jack, VGA port, Line in - Line out and Mic in; HDMI port etc.

The above computer shall be fully loaded with software package & valid license as required for controlling the lights and other requirements compatible with at least 2048 DMX output channel. The license with the documentation shall be in the name of end user.

ACCEPTABLE MAKES OF MATERIALS USED

S. No.	Description of items	Makes
1	LED Wash	MARTIN/ANOLIS/ACCLAIM/ERCO/ ALDABARA/ LUMENPULSE
2	LED Linear	MARTIN/ANOLIS/ACCLAIM/ERCO/ ALDABARA/LUMENPULSE
2	Lighting Console / Show Control Software	MALIGHTING/ONYX/SHOWCAD/ AVOLITE/ GRAND MA/PANGOLIN
3	Show Control Computer / Monitor (Complete with Keyboard & Mouse)	HP / DELL / ShowCAD/Asus
4	DMX/RDM SPLITTER	PATHWAY / ENTECH / CREATIVE / SUNLITE OR AS PER LED WASH/LINEAR OEM.
5	Main Distribution Board	Havells/ Schneider / LEGRANDA/ABB
6	DMX Cables, Power/control cables	Krystal/Belden/Canare Cables/ Havells / / Klotz
7	Any other items	As approved by Engineer-in-charge.

Note: -The decision of Engineer-in-charge regarding the model of make shall be final and binding as per the Tender Specifications.

Sr. Manager (Elect.)

INDIA TRADE PROMOTION ORGANISATION
Electrical Division

No.167-ITPO (16)E-E/CE(P)/24-25/

Dated: 09.01.2025

NOTICE INVITING TENDER

Sr. Manager, Electrical India Trade Promotion Organisation, Bharat Mandapam, New Delhi on behalf of CMD, ITPO invites **Item rate tender** for the following work from the Specialized agencies dealing in the field of **“Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi’**. in two bid system **through online e-tendering. Manual/offline bids shall not be accepted.** The details of which briefly described are hereunder:

S. N	Name of work	Time for Completion	Estimated Cost (Rs)	Earnest Money (Rs)	Cost of Tender (Rs)
1	“Supply, Installation, Testing and commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi’.	60 days	6,08,29,709/-	12,16,594 /-	1180/- i/c GST

Pre bid Meeting will be held on 13-01-2025 at 2:30 PM in the chamber of CE(P) 4th floor, admin building, Bharat Mandapam. The bids can be submitted on line up to 20/01/2025 up to 15.00 with date of opening at 15.00 on 21/01/2025. For further details including eligibility, downloadable form of tender documents etc. please refer website www.indiatradefair.com, www.gem.gov.in(For Reference) & www.eprocure.gov.in (for e-tendering)

Sr. Manager (Elect.)
I.T.P.O.

India Trade Promotion organization

(Electrical Unit)

SCHEDULE OF WORK

Name of Work: “Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi”.

Sl. No.	Description of Item	Qty	Rate (Rs.)	Unit	Amount (Rs.)
1.0	Wash Lights on main façade-all sides				
1.1	<p>Supply, Installation, Testing & Commissioning of RGBW Outdoor rated Uplight light, 200W $\pm 15\%$, 10000 lumens $\pm 15\%$, Efficacy > 40lm/W 45° beam $\pm 15\%$, Dynamic colours and Variable CTC from 1000k-12500K</p> <p>Supply of exterior-rated architectural uplighter, IP66 rated, RGBW flood light complete with Precise Anti Spill LED Lens or antiglare snoot. The power consumption should be 200 watts $\pm 15\%$, 10000 lumens delivered $\pm 15\%$, 55° beam angle $\pm 15\%$, Dynamic colours and separate color temperature channel for CTC control from 1000k-12500K LED from CREE/NICHIA/LUMILED/OSRAM.</p> <p>The housing material should be die-cast aluminum with Electrostatically applied powder coating.</p> <p>The luminaire must come with IK08 impact protection rating. It should have CRI > 70 and tight flux binning The driver should be integrated DC with PF > 0.9 &. The fixture must come with cable tails for power and DMX.</p> <p>The fixture must be capable of withstanding ambient temperature range of -10°C to 45°C. The lifetime of the luminaire (L70 @ Ta-35deg C) should</p>	45		Each	

	<p>be at least 100000 burning hours.</p> <p>Luminaire should have C5-High corrosion resistance with self-declaration of ASTM B117 for 1440 hours of salt spray test. The fixtures must comply with the following certifications- BIS Certification/Global CB Certification/IECEE: IEC 60598-2-5 (IEC 60598-1) EU safety: EN 60598-2-5 (EN 60598-1), EN 62471, EN 62493/ IS 10322</p> <p>The fixtures must be tested for Vibration resistance: 1.0g, Sinusoidal (IEC 60068-2-6), 0,7g RMS Random (IEC 60068-2-64), 3.0g (ANSI C136-31) or Fixture must have tested for BS EN 60068-2-6:2008. All mounting accessories shall be stainless steel (Minimum - 316)/Polyester powder coated MS/Aluminium for all lighting fixtures.</p> <p>The fixture must have passed wind load test under the following test conditions- Tested according to EN60598-2-5 Static load simulating 60 m/sec or IS 10322 (Part 5/Section 5).</p> <p>wind force without causing failure or permanent set to mount bracket.</p> <p>Luminaire should have Nano technology polyester powder coating or Chlorine Test- Verification of product robustness toward high levels of chloride environment.</p> <p>The luminaire manufacturer shall provide optical performance, polar diagram and photometric data in various formats including IES files in accordance with IES 79-08 This includes all the required hardware for the successful operation of the luminaire.</p> <p>All the technical parameters of the luminaire need approval from the Engineer in Charge.</p>				
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1.2	Supply, Installation, Testing & Commissioning of very wide 50-degree diffuser microlens externally mounted on fixture etc. Complete as required.	45		Each	
1.3	Supply, Installation, Testing & Commissioning of Externally mounted baffle snoot for glare control	45		Each	
2.0	Wash lights on façade between pillars				
2.1	<p>Supply, Installation, Testing & Commissioning of RGBW Outdoor rated Uplight light, 120W $\pm 15\%$, 6800 lumens $\pm 15\%$, Efficacy $> 40\text{lm/W}$ 30° beam $\pm 15\%$, Dynamic colours and Variable CTC from 1000k-12500K</p> <p>Supply of exterior-rated architectural uplighter, IP66 rated, RGBW flood light complete with Precise Anti Spill Lenses or antiglare snoot. The power consumption should be 120 watts $\pm 15\%$, 6800 lumens delivered $\pm 15\%$, 30° beam angle $\pm 15\%$, Dynamic colours and separate color temperature channel for CTC control from 1000k-12500K. LED from CREE/NICHIA/LUMILED/OSRAM or Equivalent. The housing material should be die-cast aluminum with Electrostatically applied powder coating. The luminaire must come with IK08 impact protection rating. It should have CRI > 70 and tight flux binning. The driver should be integrated DC with PF > 0.9 &. The fixture must come with cable tails for power and DMX.</p> <p>The fixture must be capable of withstanding ambient temperature range of -10°C to 45°C. The lifetime of the luminaire (L70 @ $T_a=35^\circ\text{C}$) should be at least 100000 burning hours.</p> <p>Luminaire should have C5-High corrosion resistance with self-declaration of ASTM B117 for 1440 hours of salt</p>	12		Each	

	<p>spray test. The fixtures must comply with the following certifications- BIS Certification/Global CB Certification/IECEE: IEC 60598-2-5 (IEC 60598-1) EU safety: EN 60598-2-5 (EN 60598-1), EN 62471, EN 62493/IS 10322</p> <p>The fixtures must be tested for Vibration resistance: 1.0g, Sinusoidal (IEC 60068-2-6), 0,7g RMS Random (IEC 60068-2-64), 3.0g (ANSI C136-31) or Fixture must have tested for BS EN 60068-2-6:2008. All mounting accessories shall be stainless steel (Minimum - 316)/Polyester powder coated MS/Aluminium for all lighting fixtures.</p> <p>The fixture must have passed wind load test under the following test conditions- Tested according to EN60598-2-5 Static load simulating 60 m/sec or IS 10322 (Part 5/Section 5).</p> <p>wind force without causing failure or permanent set to mount bracket.</p> <p>Luminaire should have Nano technology polyester powder coating or Chlorine Test- Verification of product robustness toward high levels of chloride environment.</p> <p>The luminaire manufacturer shall provide optical performance, polar diagram and photometric data in various formats including IES files in accordance with IES 79-08 This includes all the required hardware for the successful operation of the luminaire. All the technical parameters of the luminaire need approval from the Engineer in Charge</p>				
2.2	Supply, Installation, Testing & Commissioning of wide 30-degree diffuser microlens externally mounted on fixture etc. Complete as required.	12		Each	

2.3	Supply, Installation, Testing & Commissioning of Externally mounted baffle snoot for glare control etc. Complete as required.	12		Each	
3.0	Wash Lights on Pillars				
3.1	<p>Supply, Installation, Testing & Commissioning of RGBW Outdoor rated Uplight light, 50W $\pm 15\%$, 3000 lumens $\pm 15\%$, Efficacy $> 40\text{lm/W}$ 11° beam $\pm 15\%$, Dynamic colours and Variable CTC from 1000k-12500K</p> <p>Supply of exterior-rated architectural uplighter, IP66 rated, RGBW flood light complete with Precise Anti Spill Lenses or antiglare snoot/Hood. The power consumption should be 50 watts $\pm 15\%$, 3000 lumens delivered $\pm 15\%$, 11° beam angle $\pm 15\%$, Dynamic colours and separate color temperature channel for CTC control from 1000k-12500K using DMX. LED from CREE/NICHIA/LUMILED/OSRAM.</p> <p>The housing material should be die-cast aluminum with Electrostatically applied powder coating. The luminaire must come with IK08 impact protection rating. It should have CRI > 70 and tight flux binning The driver should be integrated DC with PF > 0.92 &. The fixture must come with cable tails for power and DMX.</p> <p>The fixture must be capable of withstanding ambient temperature range of -10°C to 45°C. The lifetime of the luminaire (L70 @ Ta-35deg C) should be at least 100000 burning hours.</p> <p>Luminaire should have C5-High corrosion resistance with self-declaration of ASTM B117 for 1440 hours of salt spray test. The fixtures must comply with the following certifications- BIS Certification/Global CB</p>	52		Each	

	<p>Certification/IECEE: IEC 60598-2-5 (IEC 60598-1) EU safety: EN 60598-2-5 (EN 60598-1), EN 62471, EN 62493/IS 10322</p> <p>The fixtures must be tested for Vibration resistance: 1.0g, Sinusoidal (IEC 60068-2-6), 0,7g RMS Random (IEC 60068-2-64), 3.0g (ANSI C136-31) or Fixture must have tested for BS EN 60068-2-6:2008. All mounting accessories shall be stainless steel (Minimum - 316)/Polyester powder coated MS/Aluminium for all lighting fixtures.</p> <p>The fixture must have passed wind load test under the following test conditions- Tested according to EN60598-2-5 Static load simulating 60 m/sec or IS 10322 (Part 5/Section 5).</p> <p>wind force without causing failure or permanent set to mount bracket.</p> <p>Luminaire should have Nano technology polyester powder coating or Chlorine Test- Verification of product robustness toward high levels of chloride environment.</p> <p>The luminaire manufacturer shall provide optical performance, polar diagram and photometric data in various formats including IES files in accordance with IES 79-08. This includes all the required hardware for the successful operation of the luminaire. All the technical parameters of the luminaire need approval from the Engineer in Charge.</p>				
3.2	Supply, Installation, Testing & Commissioning of narrow 11-degree diffuser microlens. Externally mounted on fixture etc. Complete as required.	52		Each	
3.3	Supply, Installation, Testing & Commissioning of externally mounted baffle snoot for glare control etc. Complete as required.	52		Each	

4.0	Linear lights on ramp pillars				
4.1	<p>Supply, Installation, Testing & Commissioning of 312mm ±15% floor surface linear, 10W ±15%, 500 lumens ±15%, Efficacy >50lm/W, 15 x 30° 15° x 45° beam ±15%, Dynamic colours and Variable CTC from 1000K-12500K</p> <p>Supply of 312mm±15% long exterior-rated architectural floor surface mounted, IP66 rated, linear up light completes with antiglare shield. The power consumption should be 10 watts ±15%, 500 lumens delivered ±15%, 15° x 30°/ 15° x 45° beam angle ±15%, Dynamic colours and separate color temperature channel for CTC control from 1000K- 12500K. LED from CREE/NICHIA/LUMILED/OSRAM</p> <p>The housing material should be Extruded/die-cast aluminum with Electrostatically applied polyester powder coating.</p> <p>The luminaire must come with IK08 impact protection rating. It should have CRI >70 and tight flux binning the driver should be Remote/ integrated DC with PF >0.92 &. The fixture must come with cable tails for power and DMX.</p> <p>The fixture must be capable of withstanding ambient temperature range of -10°C to 45°C. The lifetime of the luminaire (L70 @ Ta-35deg C) should be at least 50000 burning hours.</p> <p>Luminaire should have C5-High corrosion resistance with self-declaration of ASTM B117 for 1440 hours of salt spray test. The fixtures must comply with the following certifications- BIS Certification/Global CB Certification/IECEE: IEC 60598-2-5 (IEC 60598-1) EU safety: EN 60598-2-5 (EN 60598-1), EN 62471, EN 62493/</p>	80		Each	

	<p>IS 10322</p> <p>The fixtures must be tested for Vibration resistance: 1.0g, Sinusoidal (IEC 60068-2-6), 0,7g RMS Random (IEC 60068-2-64), 3.0g (ANSI C136-31) or Fixture must have tested for BS EN 60068-2-6:2008. All mounting accessories shall be stainless steel (Minimum - 316)/Polyester powder coated MS/Aluminium for all lighting fixtures.</p> <p>The fixture must have passed wind load test under the following test conditions- Tested according to EN60598-2-5 Static load simulating 60 m/sec or IS 10322 (Part 5/Section 5).</p> <p>wind force without causing failure or permanent set to mount bracket.</p> <p>Luminaire should have Nano technology polyester powder coating or Chlorine Test- Verification of product robustness toward high levels of chloride environment.</p> <p>The luminaire manufacturer shall provide optical performance, polar diagram and photometric data in various formats including IES files in accordance with IES 79-08 This includes all the required hardware for the successful operation of the luminaire. All the technical parameters of the luminaire need approval from the Engineer in Charge. Fixture should be supplied with Inbuilt Brackets, & Connecting Cables with IP Connectors. Complete as required.</p>				
4.2	<p>Supply, Installation, Testing & Commissioning of Mounting bracket for fixtures. Each fixture requires 2 nos. Complete as required.</p>	16		Each	
4.3	<p>Supply and fixing of externally mounted louvre for glare control etc. Complete as required.</p>	20		Each	

4.4	Supply and fixing of power + data hybrid junction box etc. Complete as required.	8		Each	
4.5	Supply and fixing of Input cable etc. Complete as required.	8		Each	
4.6	Supply and fixing of extension cables 1 mtr length etc. Complete as required.	160		Each	
4.7	Supply and fixing of extension cables 5 mtr length etc. Complete as required.	80		Each	
4.8	Supply and fixing of end termination cap etc. Complete as required.	8		Each	
5.0	DMX Splitter & Controller				
5.1	Supply, Installation, Testing & Commissioning of DMX / RDM Splitter cum Booster etc. Complete as required.	8		Each	
5.2	Supply, Installation, Testing & Commissioning of Lighting Controller etc. Complete as required.	1		Each	
6.0	Electrical Allied works				
6.1	Supply and fixing of DMX Cable 2 Core Shielded etc. Complete as required.	2000		Mtr.	
6.2	Supply and fixing of Power Cable 3 Core 2.5 sq. mm etc. Complete as required.	1500		Mtr.	
6.3	Supply and fixing of Power Cable 4 Core 6.0 sq. mm etc. Complete as required.	300		Mtr.	
6.4	Supply and fixing of luminaire Junction Boxes etc. Complete as required.	250		Mtr.	
6.5	Supply and fixing of Field Junction Boxes etc. Complete as required.	12		Each	
6.6	Supply and fixing of Earthing Pit etc. Complete as required.	2		Each	

6.7	Supply and fixing of Main Distribution Board etc. Complete as required.	1		Each	
6.8	Supply and fixing of Single Pole & Two Pole MCB's etc. Complete as required.	1		Each	
6.9	Supply and fixing of Light Stand & Electrical Accessories etc. Complete as required.	1		Each	
7.1	Lighting Design & Programming Charges with satisfaction of engineer in charge etc. Complete as required.	1		Job	
	Total				

SA (E)

M(E)

SM (E)

Terms and Conditions

- 2) The scope of works covers supplying the items of approved make and model as per technical specifications, testing as may be necessary before dispatch, delivery at site, all preparatory work, assembly and installation, and operation of dynamic lighting system & final testing & commissioning. The scope also includes removal/dismantling of the existing lighting system wherever not required due to new dynamic lighting system.
- 3) The work is of extremely urgent and important nature and is required to be completed on priority within the target date, in co-ordination with other agencies.
- 4) After the successful installation and commissioning, the firm shall train ITPO personnel regarding functioning & operation of entire system.

5) The tenderer shall submit along at the time of submission of bid, an individual undertaking from the OEM.

- a. Authorization Certificate
- b. The OEM shall unconditionally support the lowest tenderer technically throughout the execution of contract as well as for Guarantee period/ Maintenance/ Comprehensive Maintenance Contract for the useful life of the system, and
- c. OEM shall declare availability of the spares required whenever needed for healthy functioning of the equipment for at least Seven years from the date of supply of equipment.

Note: - In case of non-submission of undertaking as listed above in 4 (a,b,c) along with performance guarantee, the performance guarantee shall not be accepted and the EMD of the lowest tender shall be forfeited and shall not be allowed for further bidding in this work.

6) Location:

The work shall be executed as per CPWD General Specifications for Electrical Works Part-I (Internal) 2013, Part-II (Ext.) 1994, as amended up to date, relevant I.E. Rules, BIS/NBC-2016 etc. as applicable and as per directions of Engineering-Charge. The Technical specifications are to be read in conjunction with the specifications given in the BOQ.

The tenderer should in his own interest visit the site and familiarize himself with the site conditions before tendering.

All equipment delivered shall be brand new with Manufacturer's certificates, warrantee, technical catalogues, instructions, manuals and wiring diagrams etc.

The work shall be executed at around **“Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi”**. The sites are fully occupied and fully functional. Hence, the work is required to be executed in such a manner that no

disturbance/inconvenience is caused to the occupants as well as no hindrance is caused to their functioning/ working. The contractor shall organize his activities of the work in such a manner that the works and functioning of the occupants do not get hampered.

7) Care of Buildings and Precautions to Other Services:

The work site is an occupied building where lot of other service cables, Service lines of various E & M, building services are already existing/functioning in the campus/building. Hence, the contractor shall organize activities of his work in such a manner that none of the existing service get damaged/dislocated/hampered in any manner. Care shall also be taken by the contractor to avoid damage to any of these existing service/service lines, any part of the building etc. If any damage is caused to any of the existing services/service lines, or any part of the building the same shall be repaired/rectified and made functional or restored to its original finish by the contractor immediately at his own expenses failing which the same shall be repaired/rectified and made functional by department at the risk and cost of the contractor. The decision of the Engineer-in- charge in this regard shall be final & binding. It is stated that Bharat Mandapam, Pragati Maidan buildings, New Delhi is VVIP and National importance type of buildings and their repair/restoration to their original finish would be very-very costly affair. Hence if any cutting/breaking on floor/wall/ceiling becomes inevitable for execution of the work then it must be done to the barest minimum level, in a highly professional manner & only after consulting the Engineer-in- charge. It must be ensured that such cutting is repaired/restored to its original finish by the contractor immediately at his own expense failing which the same shall be repaired/restored to its original finish by department at the risk and cost of the contractor. The decision of the Engineer-in- charge in this regard shall be final & binding. The loss of time on this account shall have to be made up by generating additional resources without any extra claim on the department on this account.

8) Taxes and Duties:

The price quoted by the bidder shall be inclusive of all Taxes.

9) Terms of Payments:

- A. *Supply – 70 %*,
- B. *Installation 20 %*,
- C. *Final commissioning & Handing over the inventories – 10 %*

10) Mobilization Advance/Advance Payment:

No mobilization /Advance Payment shall be paid for the supply of material etc.

11) Completion Period:

The total time permitted for the entire work shall be 60 days.

12) Works to be Done by the Bidder:

In addition to supply, installation, testing and commissioning of all the equipment, as per schedule of work, and specifications, the following works shall be deemed to be included within the scope of work to be executed by the bidder.

Any minor building work for the installation such as cutting and making good the damages. T &P required for execution of work. Protection required for the equipment from rain, dust, storm etc. during transportation & storage in open i.e. polythene cover and tarpaulin. Necessary equipment required for testing & commissioning.

- 13) Removal of all malba/debris/pieces of cut ends of cables etc. from the site by the contractor on daily basis and disposing it out of the premises on daily basis. The site is to be kept clean at all the time during execution of work.

The installation of the specialized items like LED luminaries and associated accessories shall be carried out under the supervision of the engineer of the manufacturer/ OEM only. The testing and commissioning of the fittings and ancillaries shall be carried out by the engineer of the manufacturer and the commissioning report of the manufacturer shall be provided to the department, failing which no payment shall be released. five (5) years DLP after completion of work. Installation shall be handed over to units/ divisions looking after maintenance work in respective buildings after the completion of SITC work.

14) Completeness of Bid:

The quoted rates shall include all fittings, unit assemblies, accessories, hardware, foundations including civil works, bolts, terminal lugs for electrical connection, cable gland sand miscellaneous materials of accessories or items of work which are useful and necessary for efficient assembly and installation of the quoted items unless otherwise specifically indicated in the bid. The equipment shall be provided complete in all items whether such details have been mentioned or not.

15) Detailed Manual and Drawings to be furnished by the Bidders:

The bidder shall furnish detailed technical literature of facade LED fixtures along with the bid.

16) Drawings for Approval on Award of the Work:

The contractor shall prepare and submit following drawings as per site condition and get them approved from the engineer-in-charge before the start

of the work. Department will not supply any drawing. The approval of drawing however does not absolve the contractor of his responsibility to supply the equipment/materials as per agreement. In case of any contradiction between the approved drawings and agreement, the decision of the Engineer-in-charge shall be final and binding on the contractor.

Drawing should include manufactures name(s), model numbers, ratings, power requirements, equipment layout, device arrangement, complete wiring point-to-point diagrams and conduit layout.

17) Completion Drawings:

Three sets of the drawings shall be submitted by the contractor while handing over the installation to the Department. Out of this one of the sets shall be laminated on a hard base for display in the fire control room. Additional one set will be given on Compact Disc.

- (i) System Installation drawings giving complete details of all the equipment, including one set of reproducible drawings and a CD ROM with copies of record of Drawings in DXF for use in a CAD drafting program.
- (ii) Line diagram and layout of all Electronic/ Electrical control panels wiring along with gear ratings and their disposition, cable feeder sizes and their layout.
- (iii) Control wiring drawings with all control components and sequence of operations to explain the operation of control circuit.
- (iv) System matrix showing input signals to output commands.
- (v) System Operation, installation and maintenance manual detailing all adjustments, maintenance procedure.

18) Mode of Dispatch of Materials:

Consignments shall be sent duly insured and freight paid basis. Department will not pay anything on this account. All the consignments are to be duly insured at the cost of the successful bidder. The insurance cover shall be valid till the equipment are handed over duly installed, tested and commissioned.

The contractor may be required to import the material/ fittings as per requirement. They may also be required to airlift the imported material to complete the work in given time schedule. Contractor shall account for such eventuality and nothing extra shall be paid by the department.

The bidder shall submit all the relevant documents like type test, all test certificate, catalogue, operation manual including guiding the our staff for proper operation and function of the equipment supplied by the agency.

19) Compliance with Regulations and Indian Standards:

All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian Standards related to the works covered by this specification. In particular the equipment and installation will comply with the following:

- a) Factories Act.
- b) Indian Electricity Rules.
- c) I.S. Standards/IS10322Part5(Sec.5) Test report/NBC016/NFPA
- d) CPWD Specification as applicable
- e) Workmen's compensation Act.

Nothing in this specification shall be construed to relieve the successful bidder of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.

Successful bidder shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the bidder. Failure to provide such safety requirement i/c necessary barriers, warning signals etc. wherever required would make the bidder liable for penalty as per the contract for each default. In addition, the department will be at liberty to make arrangement for the safety requirements at the cost of bidder and recover the cost there of from him.

20) Indemnity:

The successful bidder shall at all times indemnify the department, consequent on this work contract. The successful bidder shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the contractor shall be responsible for any accident or damage incurred or claim arising there from during the period of erection, construction and putting into operation the equipment and ancillary equipment under the supervision of the successful bidder in so far as the latter is responsible. The successful bidder shall also provide all insurance i/c third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful bidder on account of the above.

21) Guarantee: -

The installation will be handed over to the department after necessary testing and commissioning of the **LED luminaries including drivers, dimming modules and all associated accessories**. All work performed and all material and equipment furnished under this contract shall be free from defects and shall remain so for a period of at least one (5) year from the date of taking over the installation by the department/ Completion of work whichever is later. The full cost of maintenance, labour and materials required to remove any defect during this five-year period shall be included in the submitted bid

for the initial installation. The equipment or components, or any part thereof, so found defective during guarantee period shall be forth with repaired or replaced free of cost, to the satisfaction of the Engineer-in-Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final & binding on the contractor.

The contractor shall provide an undertaking for the **guarantee of minimum 5 year** from the manufacturer of the LED luminaries that they shall replace the defective materials without any observation **within 48 hours** of being so informed, during the guarantee period. Contractor shall arrange for tripartite agreement to be drawn between contractor, manufacturer or their authorized channel partner & the department for this guarantee of 5 years.

The Bidder shall give the Guarantee for the following among other things.

- (a) Quality, strength and performance of the materials used as per manufacturer's standards.
- (b) Safe mechanical and electrical stress on all parts under all specified conditions of operation.
- (c) Satisfactory Performance of the Façade Lighting during one year defect liability period.

22) **Acceptable Makes of Various Equipment**

The acceptable makes of various equipment/ components/ accessories have been indicated “Acceptable makes”. The tenderer shall work out the cost of the offer on this basis. Alternate makes are not acceptable. All items for which the makes are not mentioned in the tender shall conform to technical specifications mentioned in NIT and to be got approved from the engineer-in-charge before procurement as otherwise the same will be rejected outright.

The firm shall supply MATERIALS under the agreement from list of approved makes only. The bidder shall ensure compatibility of all installed existing fittings with the controllers, cameras, gateway as per the tender Requirement. Storage, Insurance and Custody of Materials: -

Suitable open storage space and lockable space only for storage of small & loose items shall be made available to the successful bidder free of cost. Safe custody of all the materials supplied by the contractor including its watch and ward at site till handing over to the department after commissioning of the complete installation shall be the responsibility of the successful bidder.

All consignments are to be duly insured up to the destination from warehouse to warehouse at the cost of the supplier. The insurance covers shall be valid till the equipment is handed over duly installed, tested and commissioned.

All Fixtures as well as equipment’s and accessories to be supplied shall be

approved from Engineer in Charge before supply. All Fixtures to be supplied shall be BIS Approved/Certified.

23) **Water Supply / Power Supply:**

Water & Power supply required for use on work for testing and commissioning shall be made available by the department at convenient location as decided by Engineer- In-Charge, in the campus free of cost. Further, the arrangement for tapping power/water supply from this point shall be made by the contractor.

24) **Pre-Commissioning Test: -**

Before commissioning of the installation, all tests as per bid specifications, CPWD Specification and or respective Manufacturer's recommendations shall be carried out and result submitted.

No Hammering shall be allowed in the building since the building is of heritage nature. The Agency shall deploy a suitable mechanism for installation of light fixtures as per direction of Engineer-in-Charge.

25) **Material Approval: -**

The material brought at site shall be got approved by the Engineer-in-charge as per tender specification before use in the work. In case during execution any material being used in the work is found not as per agreement specifications, Engineer-in-charge may issue instruction to the contractor to remove the material from site and the contractor will be bound to do so, Otherwise the same shall be done at risk and cost of the contractor.

necessary test report to verify the technical specification of the material to be supplied to the satisfaction of engineer in charge.

26) If there is any old materials required for dismantle, the same should dismantled and stored as per direction of Engineer-in-Charge for nothing extra shall be paid.

27) The work has to be completed within the stipulated timeline so as to ensure illumination on time.

28) **Completion Period: -**

The completion period of **60 Days** indicated in the tender documents is for the entire work of planning, designing, supplying, installation, testing, commissioning and handing over of the entire system to the satisfaction of the Engineer-in-charge. The firm shall submit a completion plan in soft and hard copy before finalizing the final bill.

29) **Verification of Genuineness of Equipment at Destination-**

The contractor shall have to produce all the relevant records and test reports to certify that the genuine equipment from the Manufacturers has been supplied and erected.

30) Painting: -

This shall include cost of painting of entire exposed iron work complete in the installation. All equipment works shall be painted at the works before dispatch to the site.

31) Training: -

The scope of works includes the " **on the job technical awareness training**" at site for two persons of ITPO. Nothing extra shall be payable on this account.

32) All material to be used on this work by the contractor shall be got approved from the Engineer-in- Charge before installation at site.

33) The agency has been advised to visit the site before quoting the rates.

34) Loss of life/ damages/ accidents etc. shall be the sole responsibility of the contractor and no compensation shall be payable by the department.

35) The work associated with VVIP visit and the agency executing the work shall strictly abide by timeline specified in the tender. The agency shall also follow the required guidelines regarding of ITPO while working inside the premises. The agency before deputing the manpower for the work shall verify the credential and in case of any issue reported due to the conduct of manpower deputed shall be sole responsibility of the agency.

36) The contractor shall furnish the proof of purchase of materials from authorized dealer in support of genuineness of material used at site.

37) Wherever applicable to obtain license under Contract Labour Act (in case of 20 or more workers in security and manpower supply work etc.) and Registration under Building & Construction (RACS Act 1996) (in case of 10 or more for construction, maintenance, cable laying etc.)

38) Payment of minimum wages as notified by the Central Govt. and Delhi Govt. (whichever is higher)

39) The bidders should submit complete design as well as installation plan for the work within 10 days from date of letter of acceptance otherwise penalty @0.1% of tender amount.

40) Defect Liability Period:

(a) The entire installation in general shall be guaranteed for a period of 60 months from the date of completion. Any defective materials and equipment shall be replaced free of cost at the direction of the Engineer-in-Charge.

(b) All the LED bulbs/ LED Fittings and fixture shall be Guaranteed for a period of 5 years from the date of completion of work and handing over. A letter from the manufacturer of the LED luminaries regarding the back-to-back arrangement for performance of this guarantee clause shall be

submitted at the time of supply of LED fittings.

- (i) 50% of the performance guarantee shall be refunded to the contractor soon after the completion of the work and recording of the completion certificate.
- (ii) 50% of the Performance Guarantee shall be retained as Security Deposit.
- (iii) 50% of the Performance Guarantee retained as Security Deposit plus 2.5% Security Deposit already deducted from each running bill (Total 2.5 + 2.5 =5%) shall be refunded year wise proportionately.
- 41) Issue employment card, wages slips and experience certificate to the contract worker.
- 42) Provide welfare amenities as per the law.
- 43) Comply the Terms and Condition provided in the license.
- 44) The contractor shall submit an undertaking from the OEM of LED fitting that the fitting supplied by him to this work shall have warranty for 5 years w.e.f. the completion of work.
- 45) The contractor should visit the site before quoting the rates.
- 46) The contractor shall submit computerized simulation/rendering of façade lighting before start of work and shall be executed only after taking duly approval from engineer-in-charge.

Sr. Manager(E)

FORCE MAJEURE

1) The Parties shall not be liable for any failure to perform, any of its obligations under this Agreement if the performance is prevented, hindered or delayed by a Force Majeure event (defined below) and in such case its obligations shall be suspended for so long as the Force Majeure Event continues. Each party shall promptly inform the other of the existence of a Force Majeure Event and shall consult together to find a mutually acceptable solution. "Force Majeure Event" means any event due to any cause beyond the reasonable control of the Party, including, without limitation, unavailability of any communication system, sabotage, fire, flood, explosion, acts of God, civil commotion, , riots, insurrection, war or acts of government.

"Force Majeure Event" means any event due to any cause beyond the reasonable control of the Party, including, without limitation, unavailability of any communication system, sabotage, fire, flood, explosion, acts of God, civil commotion, , riots, insurrection, war or acts of government.

Safety Guidelines for Preventive measures in the wake of Covid-19.

The agency will take the following effective necessary measures to prevent spread of COVID-19 epidemic and will implement various measures issued by government time to time at their **own cost** while carrying out different services at Bharat Mandapam: -

1. Physical distancing of at least 6 feet to be followed as far as feasible.
2. Use of face covers/ masks to be mandatory.
3. Frequent hand washing with soap (for at least 40-60 seconds) even when hands are not visibly dirty. Use of alcohol-based hand sanitizers can be made wherever feasible.
4. Spitting shall be strictly prohibited and if found shall be fined as per ITPO norms.
5. The furniture and other surfaces (frequently touched or otherwise) brought by the agency need to be wiped with disinfectant regularly.
6. While transporting the prefabricated materials to Bharat Mandapam or back to warehouse, the agency must ensure to sanitize the delivery vehicle and all materials before loading & try to avoid unnecessary stopover during transit.
7. Driver and other personnel involved in transportation of material must ensure social distancing and wear all necessary PPE.
8. Ensure contactless transportation of materials to the exhibition ground.
9. Ensure all work to be carried out at site with maintaining social distancing as far as feasible.
10. Any structure/ stall fabricated by the agency at site must be sanitized before dismantling.
11. The agency will engage the entire worker whose temperature is not normal and if in case a person falls sick, they must report to the First Aid Desk/ nearby hospital immediately.

Sr. Manager (Elect.)

AGREEMENT

AN AGREEMENT is made this -----of ----- of two thousand twenty five between the India Trade Promotion Organization, A company incorporated under the Companies Act, 1956 and with its registered office at Bharat Mandapam, New Delhi – 110001, which expression shall include its successor, unless repugnant to or excluded by the contract here of and assignees of and represented by its Managing Director, ITPO the first party (hereinafter called the Authority) and by its sole Proprietor/Partner/Managing Director -----

which expression shall be include his/its successors heirs, executors, representatives and or assignees of the second party (hereinafter called the contractor).

WHEREAS the Authority had, under Notification -----
-----invited tenders for the work of **“Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi”**. WHEREAS the contractor has submitted tender for carrying out the **work of “Supply, Installation, Testing and Commissioning of Dynamic Programmable façade lighting at Bharat Mandapam, New Delhi”** as per the tender documents page --- to page----- and has represented that in conformity with his/its obligation contained in the tender as modified by the correction slips and corrigendum contained, he/it shall carryout the same truly, faithfully and honestly.

THE SAME has been accepted by both the parties on the terms and conditions, corrections, corrigendum contained in the tender as modified as well as the letter of acceptance issued party No.1 annexed here to as.

The same shall be binding on both the parties.

IN WITNESS WHERE OF, the parties have signed the deed of agreement on the date month and year referred to above.

Date

AT New Delhi

WITNESS:

Party No.1

Party No.2