

Government Of India
Ministry Of Housing & Urban Affairs



Central Public Works Department
Excellence in Public Works

Tender Consolidation View

Print

Download As Pdf

Enquiry Particulars

Regional Office	EE - CED - I	Office Inviting Bids	Chandigarh - CE - E and F - EE - CED - I
Tender ID	101371	NIT/RFP NO	29/e-NIT/EE/CED-I/CCU/2024-25
Name of Work	Providing and Installation of Water Bubbler and Aerating aquascapes at pond near Amphitheatre of National Zoological Park, New Delhi.	Subwork/Packages	
Time Allowed	40 days	Tender Type	OPEN
Procurement Type	WORKS	Bid Type	Percentage
Type of Work	Electrical Works	Category of Tender	NON-CPWD CONTRACTOR
Estimated Cost(INR)	₹ 7,25,065	Competitive Bidding Type	NCB

Bid Submission Dates

Last Date & Time of receipt of Pre-Bid Queries	11/02/2025 14:50	Receipt of Queries through	Email
Email	eeced1ccu-mef@nic.in		
Bid Submission Closing Date & Time	11/02/2025 15:00	Bid Validity Period (In Days)	75 After Technical cum Eligibility Bid Opening
Bid Validity Expiry Date	27/04/2025 15:30	Tender Notice Type	Standard Notice Tender

Tender Inviting Authority Particulars

Office Inviting Bids	EE - CED - I	Designation	Executive Engineer
Address	Civil Construction Unit, 7th Floor, Pt. Deendayal Antyodaya Bhawan, CGO Complex, Lodhi Road, New Del	Contact Details	9953116700
Email	daulat.ram66@gov.in		

EMD Details

EMD (INR)	EMD in favour of	Mode of Payment
₹ 14,501	Executive Engineer, CED-I, CCU, MoEF&CC, New Delhi-110003	DD,FDR,BC,TC

Bid Openers

Department User Name	Region	Mobile Number	Email	Designation	Certificate serial No	Certificate Expiry
Avinash Yadav	EE - CED - I	9873268737	yadav.avinash7@gmail.com	Assistant Engineer	18828ca	24/09/2026 04:23
DAULAT RAM	EE - CED - I	9953116700	daulatram2508@gmail.com	Executive Engineer	188ea67	14/10/2026 02:47

Tender Documents

S.No	File Name	File Description	File Size (in Bytes)	Uploaded Date
1	NIT2902.pdf	NIT2902	1080623	04/02/2025 12:59
2	Eligibility.pdf	Eligibility	572243	04/02/2025 13:00
3	NIT2901.pdf	NIT2901	259338	04/02/2025 13:16

Mandatory Documents Details

S.No	Documents Required from Vendor	Document Type
1	Treasury Challan or Demand Draft or Pay order or Bankers Cheque or Deposit at Call Receipt or FDR of any scheduled Bank against EMD	Mandatory
2	Receipt of deposit of EMD in any divisions of CPWD or CCU or MoEF and CC	Mandatory
3	Certificate of Financial Turnover duly audited by Chartered Accountant for the last 5 financial years ending 31st March 2024.	Mandatory
4	Certificates of Work Experience issued by officers not below the rank of Executive Engineer or Project Manager or equivalent of the client department clearly indicating	Mandatory
5	Profit or Loss statement duly audited by Chartered Accountant for the last 5 financial years ending 31st March 2024.	Mandatory

S.No	Documents Required from Vendor	Document Type
6	Bankers Certificate or Net worth certificate of issued by the certified Chartered Accountant.	Mandatory
7	GST registration certificate or Undertaking	Mandatory
8	Valid Electrical License or Undertaking	Mandatory
9	Affidavit as per provision of clause 1 2 2 of CPWD	Mandatory
10	Copy of PAN Card	Mandatory

Tender Covers

S.No	Cover Name	Bid Opening date	View Details
1	Technical cum Eligibility Bid	11/02/2025 15:30	View Action
2	Financial Bid	Financial Bid Date To be Decided Later	View Action

Technical cum Eligibility Bid

S.No	Documents Required from Vendor
1	Work Experience Certificate
2	Affidavit from CPWD 6 as per clause 1 2 3
3	Certiifcate of financial turnover from CA
4	Net Worth
5	Profit or Loss statement duly audited by Chartered Accountant for the last 5 financial years

Financial Bid

S.No	File Name	File Size(in Bytes)
1	101371-PercentageComposite1.xls	60928

Done

© Owned by Central Public Works Department, Government of India



GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE
CIVIL CONSTRUCTION UNIT

NIT No.: 29/e-NIT/EE/CED-I/CCU/2024-25

Notice Inviting e-Tender

**Name of Work: Providing and Installation of Water
Bubbler and Aerating aquascapes at pond near
Amphitheatre of National Zoological Park, New
Delhi**

Estimated Cost: - Rs. 7,25,065/-

EMD: - Rs. 14,501/-

(February, 2024-25)

**ISSUED BY
EXECUTIVE ENGINEER,
CED-I, CCU, MoEF & CC**

INDEX

Name of work: Providing and Installation of Water Bubbler and Aerating aquascapes at pond near Amphitheatre of National Zoological Park, New Delhi.

NIT No.: 29/e-NIT/EE/CED-I/CCU/2024-25

S.N.	Particulars	Pg. No.
1	Index	1
	Part A	2
2	Information and instructions for bidders for e-tendering	3-8
3	CPWD- 6	9-13
5	CPWD- 7, Percentage Rate Bid, Contract for Works and Acceptance	14-16
6	Performa of Schedules A to F for Major and Minor Component of Work	17-23
7	Form of Earnest Money Deposit	24
8	Form of Bank Guarantee for Performance Guarantee/ Earnest Money Deposit/ Security Deposit	25-26
	Part B	27
9	Additional Specifications for Electrical works	28-29
10	List of Preferred Makes of Materials for Electrical Work	30
11	Schedule of Quantity for E&M Works	31-33
	Financial bid	34

This NIT contains 1 to 34 pages including this page.

Assistant Engineer (P)
CED-I, CCU, New Delhi

NIT No. **29/e-NIT/EE/CED-I/CCU/2024-25** approved for Rs. 7,25,065/- (Rupees Seven Lakh Twenty-Five Thousand Sixty-Five Only) and containing pages 1 to 34.

Executive Engineer (C)
CED-I, CCU, MoEF&CC
New Delhi

PART-A

GENERAL INFORMATION

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING
FORMING PART OF BID DOCUMENT

The Executive Engineer, CED-I, Civil Construction Unit (CCU), Ministry of Environment, Forest & Climate Change (MoEF&CC), 7th Floor, Pt. Deen Dayal Antyodaya Bhawan, CGO Complex, Lodhi Road, New Delhi-110003 on behalf of President of India invites online Percentage rate bids from the Specialised agencies in two bid system for the following work: -

S. No.	NIT No.	Name of work and location	Estimated cost put to tender	Earnest Money	Period of Completion	Last date & time of submission of bid, copy of receipt of deposition of original EMD, and other Documents as specified in NIT	Time & date of opening of technical bid	Time & date of opening of technical bid
1	2	3	4	5	6	8	9	
1	29/e-NIT/EE/CED-I/CCU/2024-25	Providing and Installation of Water Bubbler and Aerating aquascapes at pond near Amphitheatre of National Zoological Park, New Delhi.	Rs. 7,25,065/-	Rs. 14,501/-	40 (Forty) Days	11.02.2025 upto 3.00 PM	11.02.2025 upto 3.30 PM	To be decided after qualifying technical bid

* *To be filled by Executive Engineer, CED-I, CCU

- 1) The specialized agency who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted.
 - a) The bidder should have satisfactorily completed the similar works as mentioned below during the last Seven years ending last date of the month previous to the one in which tenders are invited.

Three similar completed works each costing not less than **Rs. 2,90,026/-**

or

Two similar completed works each costing not less than **Rs. 4,35,039/-**

or

One similar completed works each costing not less than **Rs. 5,80,052/-**

Similar work shall mean works of “**SITC of fountain work**” The value of executed works shall be brought to the current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of receipt of applications for bids.

- 2) The contractor submitting the tender should read the schedule of quantities, additional conditions, additional specifications, particular specifications, CPWD-6 and other terms and conditions given in the NIT and drawings. The bidder should also read the General Condition of Contract for CPWD works 2023 for Construction works with upto date correction slips. The Tender is available as Government of India Publications and on CPWD website at <https://etender.cpwd.gov.in> however, provisions included in the tender document shall prevail over the provisions contained in the standard form. The sets of drawings and NIT shall be available in the office of **Executive Engineer, CED-I, CCU, MoEF&CC, New Delhi**. The contractor should also visit the site of work and acquaint himself with the site conditions before tendering. He should only submit his tender if he considers himself eligible and he is in possession of all the required documents. The following conditions, which already form part of the tender conditions, are specially brought to his notice for compliance while submitting the tender online. They are requested to comply following instructions.
 - a) Tenders with any condition including that of conditional rebates shall be rejected forth with.
 - b) The successful bidder shall be required to submit a Performance Guarantee of 5% (Five Percent) of the tendered amount **within 5 days** of issue of letter of intent. This period can be further extended by Engineer-in-Charge up to a maximum period of **02 days** on the written request of the contractor and with late fee as defined in Schedule F.
 - c) GST and Labour-Cess etc. as applicable shall be borne by the contractor himself. The contractor shall quote his rates considering all such taxes and hence their quoted rates should be inclusive of all the tax components.
 - d) It will be obligatory on part of the Contractor/ Bidder to tender for and sign the tender documents for all the component parts. The department reserves right to accept tender in full or in part without assigning any reasons.
- 3) The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- 4) Information and Instructions for bidders posted on websites all form part of bid document.
- 5) The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of opening of bid is extended, the enlistment of contractor should be valid on the original date of opening of tender.
- 6) The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen in the office of **Executive Engineer, CED-I, CCU, MoEF&CC, New Delhi** on all working days between 11.00 AM to 4.00 PM except Sunday and public holidays and downloaded from website <https://etender.cpwd.gov.in> free of cost.
- 7) The bid can only be submitted **after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD/CCU, MoEF&CC within the period of bid submission** and uploading the mandatory scanned documents as mentioned in the NIT such as Insurance Surety Bond or Demand Draft or Pay order or Banker’s Cheque or Deposit at call Receipt or Fixed Deposit Receipts and Bank Guarantee of any Scheduled Bank towards EMD in favour of “**Executive Engineer, CED-I, CCU, MoEF&CC, New Delhi**” receipt of deposition of original EMD to any division office of CCU, MoEF&CC/ CPWD or office of Executive Engineer, CED-I, CCU, New Delhi and all other documents as mentioned in NIT.

- 8) The online bids will be submitted upto **3.00 PM on 11.02.2025**. The online bid shall be opened at **3:30 PM on 11.02.2025**.
- 9) Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
- 10) The intending bidder must have valid class-III digital signature to submit the bid.
- 11) The Executive Engineer of any division of CCU, MoEF&CC/CPWD shall receive the original EMD for tender of other division/ Divisions.
- 12) Copy of Enlistment Order and certificate of work experience and other documents as specified in the bid document shall be scanned and uploaded to the e-tendering website within the period of bid submission. However certified copy of all the scanned and uploaded documents as specified in the bid document shall have to be submitted by the lowest bidder only physically in the office of tender opening authority as and when directed by Engineer-in-charge. **Online bid documents submitted by intending bidders shall be opened only of those bidders, whose all documents scanned and uploaded are found in order including scanned copy of EMD & receipt of Deposition of EMD.**
- 13) On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
- 14) Contractor can upload documents in the form of JPG format and PDF format.
- 15) In addition to this, while selecting any of the cells a warning appears that if any cell is left blank, the same shall be treated as “0”.
- 16) 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).
- 17) The required documents meeting the criteria to qualify as “approved and eligible contractors of CPWD” along with other documents as mentioned under para “List of Documents to be scanned and uploaded within the period of bid submission” below, as uploaded by the agency and hard copies received subsequently shall be checked. The financial bid of only those agencies shall be opened who are found to be eligible agencies, as per this NIT.
- 18) The department reserves the right to reject any prospective bid without assigning any reason.
- 19) After submission of the bid, the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
- 20) While submitting the revised bid, contractor can revise the rate any number of times but before last time and date of submission of bid as notified.
- 21) In case of composite tenders, the contractor submitting the tender should read all the three Parts of the tender viz. Part-A, B & C, which are containing schedule of quantities, additional & special conditions, additional specifications, particular specification and other terms and conditions given in the NIT and drawings for Major as well as Minor component of work. Details of these parts are summarized as under:
 - **Part A :- CPWD-6, CPWD-7 including schedule A to F for major and minor component of the work, Standard General Conditions of Contract for CPWD 2023 (Construction work) as amended/ modified upto last date of submission of bid.**
 - **Part B :-** Conditions & specifications and schedule of quantities applicable to major component of the work.

22)

- 23) The bidders should also read the General Conditions of Contract for CPWD 2023 (Construction work) amended up to last date of submission of bid of this work, which is available as Govt. of India Publications; however, provisions included in the tender document shall prevail over the provisions contained in this standard form. The set of drawings and NIT shall be available with the Executive Engineer.
- 24) The main contractor shall execute the minor component(s) also. He should be either an eligible contractor himself for associate with himself an eligible agency(s) for execution of electrical work as per CPWD-6 for e-tendering. The contractor shall indicate the names of upto three such agencies within prescribed time as “**Minor component agencies**”. In case the details of electrical agency are not submitted by the bidder or are not proper then these shall be submitted before acceptance of the bid.
- 25) After acceptance of the tender by competent authority, the EE-in-charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE-in-charge of major component and has also to sign two/ or more copies of agreement depending upon number of EE’s in-charge of minor components. One such signed set of agreement shall be handed over to EE in charge of minor component.
- 26) The main contractor has to enter into agreement with the contractor(s) associated by him for execution of minor component(s). Copy of such agreement shall be submitted to EE in charge of minor component as well as to EE in charge of major component. In case of change of associate contractor, the main contractor has to enter into agreement with the new contractor associated by him.
- 27) Tenders with any condition including that of conditional rebates in the tender document shall be rejected forthwith.
- 28) The **online percentage rate(s)** must be quoted in decimal coinage. Amount shall be calculated and rounded in full rupees by ignoring fifty paisa and considering more than fifty paisa as rupee one.
- 29) The successful bidder shall be required to submit a Performance Guarantee of **5% (Five percent)** of the composite contract amount within a period of issue of letter of acceptance as specified in schedule ‘F’.
- 30) The contractor shall have to execute guarantee bonds in respect of Stone work, water supply, sanitary installation & drainage works, water proofing works, CPVC door / windows, Aluminium Works & Road works as per Performa at Annexures.
- 31) GST on materials as applicable shall be paid by the contractor himself. The contractor shall quote his rates considering all such taxes.
- 32) Attention is also drawn to Clauses 6 and 7 of **General Condition of Contract for CPWD works 2023 for Construction works**, which prescribes the procedure for computerized recording of measurement and preparation of bill by contractor.
- 33) Intending bidder may submit physical mile stone on the basis of their resources and methodology at the time of tendering as indicated in the “Schedule F”, otherwise it will be assumed that agency is agreeable to physical milestones mentioned in the table.
- 34) Intending bidder may give detailed activities/ programme for each milestone fixed in the tender document within 15 days after award of work.
- 35) Payment for the items with less use of materials beyond permissible limits as mentioned in

- Schedule 'F' of Part-A & C shall not be made to contractor.
- 36) The contractor will not be allowed to construct labour huts in the National Zoological Park. The contractor has to make arrangement for labour huts outside National Zoological Park at his own cost. Nothing extra shall be paid on this account.
 - 37) The personal vehicle of contractor shall not be allowed in the Zoo premises.
 - 38) The workers of the contractor will be issued ID-Card from AE, in-charge of the work. The contractor will submit details of the workers employed by him for execution of the work with valid ID-Card (Aadhar card / Voter I-Card etc. No worker shall be allowed to enter in the Zoo premises without ID-Card issued by AE-In-charge.
 - 39) The contractor will guide his workers regarding guidelines of Zoo authority for safety & security of Zoo Animals. It is the sole responsibility of the contractor in case of any mis-happening or harm to Zoo Animals by his workers.
 - 40) The contractor shall keep the site neat & clean during execution of the work and cover the building materials with cloths. In case of any mis-happening with visitors or animals due to scattered materials / malba at his site the contractor shall be held responsible for the same.
 - 41) In case of any fine imposed by Zoo authorities due to scattered malba / building materials or any harm to Zoo animals due to malba / materials or by worker of the contractor the same shall be paid by contractor within prescribed period otherwise same shall be recovered from the bills or securities / performance guarantee of the contractor.
 - 42) The Eligibility bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of contractors qualifying the technical bid shall be communicated to them at a later date.

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

- 1) Treasury Challan / Demand Draft / Pay order or Banker's Cheque / Deposit at Call Receipt/FDR of any scheduled Bank against **EMD**.
- 2) Receipt of deposit of EMD in any divisions of CPWD/CCU, MoEF&CC
- 3) Certificate of Financial Turnover duly audited by Chartered Accountant for the last 5 financial years ending 31st March 2024.
- 4) Certificates of Work Experience issued by officers not below the rank of Executive Engineer/ Project Manager or equivalent of the client department clearly indicating
- 5) Profit / Loss statement duly audited by Chartered Accountant for the last 5 financial years ending 31st March 2024.
- 6) Banker's Certificate or Net worth certificate of issued by the certified Chartered Accountant.
- 7) Certificate of registration for GST and acknowledgement of upto date filed return as per NIT stipulation. If the bidder has not obtained GST registration in the state in which the work is to be taken up, then in such case the bidder shall upload following undertaking with the bid document "If work is awarded to me, I/we shall obtain GST registration Certificate of the

State, in which work is to be taken up, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard.”

- 8) Valid Electrical Contractor License or undertaking that they will either obtain valid electrical license at the time of execution of electrical work or associate the contractor having valid electrical license of appropriate class.
- 9) Affidavit as per provision of clause 1.2.2 of CPWD.
- 10) Copy of PAN Card.

Executive Engineer, CED-I, CCU
(For and on behalf of the President of India)

CPWD-6 FOR E-TENDERING

1. Online Percentage rate bids from the Specialised agencies in two bid system for the following work of “**Providing and Installation of Water Bubbler and Aerating aquascapes at pond near Amphitheatre of National Zoological Park, New Delhi**”.

~~The enlistment of the contractors should be valid on the last date of submission of bids.~~

~~In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.~~

- 1.1 The work is estimated to cost for **Rs. 7,25,065/-**. This estimate, however, is given merely as a rough guide.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7/8 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **40 Days** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. (i) The site for the work is available.
or
The site for the work shall be made available in parts as specified below: -
.....
- (ii) The architectural and structural drawing for the work is available
or
The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of work.
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.

7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
8. When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
9. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee including e- Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks (**drawn in favour of Executive Engineer, CED-I, CCU, MoEF&CC, New Delhi**) shall be scanned and uploaded on the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee including e- Bank Guarantee of any Commercial bank having validity for a period of **90 days** for single bid works and **180 days** for two bid system or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. However, in case of two/ three bid system, earnest money deposit of bidders unsuccessful during technical bid evaluation etc. should be returned within 30 days of declaration of result of technical bid evaluation.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the notice inviting e- tender shall be scanned and uploaded on the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e- tender notice shall have to be submitted by the lowest bidder within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, who's original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at 03:30 PM on **11.02.2025**.

10. The bid submitted shall become invalid and e-Tender processing fee (if applicable) shall not be refunded if:
- (i) The bidder is found ineligible.
 - (ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
 - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
 - (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
11. The contractor whose bid is accepted will be required to furnish performance guarantee **5% (Five Percent)** of the tendered amount as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks 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. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the subcontractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

12. The description of the work is as follows:

Providing and Installation of Water Bubbler and Aerating aquascapes at pond near Amphitheatre of National Zoological Park, New Delhi.

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids 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 bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder 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 bid by a bidder 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.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the **CCU, MoEF&CC/ CPWD Circle** (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. 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 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.
18. The bids for the work shall remain open for acceptance for a period of **30 (thirty) days** from the date of opening of bids. Further
 - (i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

- (ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
- (iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.
19. This notice inviting Bid shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of: -
- a. The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
- b. Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable.
20. Integrity Pact: The contractor shall download the Integrity Pact, which is a part of tender documents, affix his signature in the presence of a witness, and upload the same while submitting online bids for all works of estimated cost put to tender equal or more than the threshold value given in Schedule-F. In the event of his failure to sign and upload the Integrity Pact along with other bid documents, his bid shall be rejected.
21. The intending bidders are required to update their profile in CPWD e- tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through the concerned Executive Engineer/ Assistant Engineer (Phone no *....., e- mail Id *.....) or ERP helpline no. 18001803286 or e-mail Id cpwd.support@techmahindra.com. The e- tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

*To be filled in by NIT approving authority

Executive Engineer, CED-I, CCU
(For and on behalf of the President of India)

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE
PERCENTAGE RATE BID AND CONTRACT FOR WORKS

Tender for the work of “**Providing and Installation of Water Bubbler and Aerating aquascapes at pond near Amphitheatre of National Zoological Park, New Delhi.**”

- i) To be uploaded by **3:00 pm on 11.02.2025** to/upload at
- ii) To be opened in presence of tenderers who may be present at **3:30 pm on 11.02.2025** in the office of in the office of the Executive Engineer, CED-I, CCU, New Delhi.

** To be filled by EE

TENDER

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule ‘F’ viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

We agree to keep the tender open for acceptance for **Thirty (30) days** from the due date of its opening of bid and not to make any modifications in its terms and conditions.

A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank, is scanned and uploaded. If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/ We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. I/We hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information derived there from to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety and integrity of the State.

SCHEDULES (A to F)
(For Civil, Electrical & Mechanical Component)

SCHEDULE 'A'

Schedule of Quantities -

As per separate sheets attached

SCHEDULE 'B'

Schedule of materials to be issued to the contractor:

S. No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
-----NIL -----				

SCHEDULE 'C'

Schedule of Tools and Plants to be hired to the contractor:

S. No.	Description	Hire charges per day	Place of issue
1	2	3	4
-----NIL -----			

SCHEDULE 'D'

Extra schedule for specific requirements/document for the work, if any:	As per tender documents
---	-------------------------

SCHEDULE 'E'

Reference to General Conditions of contract	General Conditions of Contract 2023 for Construction works, Central Public Works Department, as amended up to last date of submission of bids.
Name of Work	Providing and Installation of Water Bubbler and Aerating aquascapes at pond near Amphitheatre of National Zoological Park, New Delhi.
Estimated cost of the work	Rs. 7,25,065/-
Earnest money	Rs. 14,501/-
Performance Guarantee	5.00% of tendered amount
Security Deposit	2.50% of tendered amount.

SCHEDULE 'F'**GENERAL RULES AND DIRECTION**

Officer inviting tender	Executive Engineer, CED-I CCU, MoEF&CC, 7 th Floor, Pt. Deen Dayal Antyodaya Bhawan, CGO complex, New Delhi-110003
Maximum percentage of quantity of items of work to be executed beyond which rates are to be determined in accordance with Clause 12.2 & 12.3	See at appropriate clause

Definitions:

2(v)	Engineer-in-Charge (Major Component)	Executive Engineer, CED-I, CCU, MoEF&CC.
	Engineer-in-Charge (Minor Component)	Executive Engineer (E), CCU, MoEF&CC.

2(viii)	Accepting Authority	Executive Engineer, CED-I, CCU, MoEF&CC .
2(x)	Percentage on cost of materials and labour to cover all overheads and profits	7.5% for items of supply of materials and 15% for execution of items
2(xi)	Standard Schedule of Rates	
	Civil Works	DSR-2023 Corrected up to last date of submission of bid (for civil work volume I & II) DAR-2023 Corrected up to last date of submission of bid (for civil work volume I & II)
	Electrical & Mechanical Works	DSR-2022 with up-to-date correction slips issued upto last date of submission of bids & Market rates
2(xii)	Department:	Civil Construction Unit, MoEF&CC
9(ii)	Standard CPWD Contract Form	CPWD Form 7 of General Conditions of Contract 2023 for Construction works, Central Public Works Department, as modified and corrected up to last date of submission of bids.

Clause 1		
i)	Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of letter of acceptance	5 Days
ii)	Maximum allowable extension with late fee @0.1% per day of Performance Guarantee amount beyond the period as provided in i) above	2 Days
Clause 2	Authority for fixing Compensation under Clause 2	Superintending Engineer, CCU, MoEF&CC.
Clause 5	Number of days from the date of issue of letter of acceptance for reckoning date of start	7 Days

Mile stones as per table given below

Sl. No.	Description of mile stone (s)	Time allowed (From date of start)	Amount to be withheld in case of Non-achievement of each Mile stone(s)
1	Work done amounting to 25% of accepted tender amount (Civil + Electrical).	10 Days	1.25% of accepted tendered amount.
2	Work done amounting to 50% of accepted tender amount (Civil + Electrical).	20 Days	1.25 % of accepted tendered amount.
3	Work done amounting to 75% of accepted tender amount (Civil + Electrical).	30 Days	1.25 % of accepted tendered amount.
4	Work done amounting to 100% of accepted tender amount (Civil + Electrical).	40 days	1.25 % of accepted tendered amount.

Time allowed for execution of work: 40 (Forty) Days

Authority to decide:

i)	Extension of time	Executive Engineer, CED-I, CCU, MoEF&CC.
ii)	Rescheduling of mile stones	Superintending Engineer, CCU, MoEF&CC.
iii)	Shifting of date of start in case of delay in handing over of site	Superintending Engineer, CCU, MoEF&CC.

Clause 6: Computerised Measure Book (CMB) / Electronic Measurement Book (EMB)

i) Mode of measurement	CMB
------------------------	-----

Clause 7

Gross work to be done together with net payment/ adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	Rs. 3.50 Lakhs
---	-----------------------

Clause 7A

No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable as submitted by the Bidder to the Engineer-in-Charge.	Yes
--	-----

Clause 10 A

List of testing equipment to be provided by the contractor at site lab.

a) Measuring tape 3 m.- 2 Nos., Steel tape- 30 m 1 Nos., b) Vernier calipers- 2 Nos., d) Plumb bob - 1 No., e) Spirit level minimum 30 cm long with 3 bubbles- 1 No., f) Wire gauge (Circular type) disc, g) Steel foot rule, h) Long nylon thread, i) Magnifying glass, j) Screw driver 30 cm long, k) Ball pin hammer 100 gms, l) Electronic/ digital weighing balance: i) 7 to 10 kg capacity with 10 gm accuracy 1 No., ii) 500 gm capacity with 1 gm accuracy- 1 No., m) Slump cone- 1 No

Clause 10 B

Clause 10B (ii)	
Whether Clause 10 B (ii) shall be applicable	No

Clause 10 C

Whether Clause 10 C shall be applicable	Applicable
Component of labour expressed as percent of value of work	25%

Clause 10CA – Not Applicable**Clause 10CC – Not Applicable****Clause 11 :**

Specifications to be followed for execution of: civil work	CPWD Specifications 2019 Volume-I and II with correction slips issued upto last date of submission of bids
Specifications to be followed for execution of: Electrical & Mechanical Works	CPWD Specifications for Electrical Work.

	Part-I (internal) 2023, Part-II (external) 2023, and as amended up to correction slips.
--	---

Clause 12:

Type of Work:	Construction Work	
The completion cost of shall, in no case, exceed 1.5 times the contract amount and governed as per DG CPWD Memorandum No. DG/CON/Maintenance 2023/03 dated 18.12.2023.		
Authority to decided deviation upto 1.25 times of tendered amount	Engineer-in-Charge	
Authority to decided deviation beyond 1.25 times & 1.50 times of tendered amount	Chief Engineer, CCU, MoEF&CC, New Delhi	
12.2. &12.3	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work.	100%

Clause 16:

Competent authority for deciding reduced rates	:	Superintending Engineer, CCU, MoEF&CC or his legal successor or Assignee thereof
--	---	--

Clause 18:

List of Mandatory Machinery, tools & plants to be deployed by the contractor at site:-

As per details attached in the relevant pages of this bid document and as directed by Engineer Incharge will be deployed by the contractor.

Clause 19

Clause 19 C	Authority to decide penalty for each default	Executive Engineer, CED-I, CCU, MoEF&CC or his legal successor or Assignee thereof
Clause 19 D	Authority to decide penalty for each default	Executive Engineer, CED-I, CCU, MoEF&CC or his legal successor or Assignee thereof
Clause 19 G	Authority to decide penalty for each default	Executive Engineer, CED-I, CCU, MoEF&CC or his legal successor or Assignee thereof

Clause 19 K	Authority to decide penalty for each default	Executive Engineer, CED-I, CCU, MoEF&CC or his legal successor or Assignee thereof
--------------------	--	--

Clause 25: Settlement of disputes by Conciliation and Arbitration

Conciliator:	:	SE, CCU, MoEF&CC or his legal successor or Assignee thereof
Arbitrator Appointing Authority	:	Chief Engineer, CCU, MoEF&CC or his legal successor or Assignee thereof
Place of Arbitration	:	Delhi

Clause 32 : Requirement of Technical Representative(s) and Recovery Rate N/A

Sl. No.	Minimum Qualification of Technical Representative	Discipline	Designation	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 Or Diploma Engineer	Electrical	Project Manager cum planning/ quality/site /billing Engineer	2 or 5 years respectively	1	Rs. 30,000/- per month per person

- 1) Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.
- 2) Diploma holder with minimum 10-year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50 % of requirement of degree engineers.

Clause 38

(i)	(a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of (for civil work)	Delhi Schedule of Rates 2023 printed by C.P.W.D. with upto date correction slip upto last date of bid submission.
		Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of (for Electrical work)	Delhi Schedule of Rates 2022 printed by C.P.W.D. with upto date correction slip upto last date of bid submission.
(ii)		Variations permissible on theoretical quantities:	
	(a)	Cement	
		For works with estimated cost put to tender more than Rs. 25 lakhs.	2% (Two percent) plus/minus.
	(b)	Bitumen for all works	2.5% (Two-point five percent) plus only and nil on minus side.
	(c)	Steel Reinforcement and structural steel sections for each diameter, section and category	2% (Two percent) plus / minus
	(d)	All other materials	Nil

**PROFORMA FOR THE RECEIPT TO BE ISSUED BY THE EXECUTIVE ENGINEER
RECEIVING THE EMD**

Receipt of deposition of original EMD (drawn in favour of Executive Engineer, CED-I, CCU, MoEF&CC, New Delhi) (Receipt No. / Date.....)	
Name of work	: Providing and Installation of Water Bubbler and Aerating aquascapes at pond near Amphitheatre of National Zoological Park, New Delhi.
NIT No	: 29/e-NIT/EE/CED-I/CCU/2024-25
Estimated Cost	: Rs. 7,25,065/-
Amount of Earnest Money Deposit	: Rs. 14,501/-
Last date of submission of bid	: 11.02.2025
To be filled by EMD receiving Executive Engineer	
Name of contractor	:
Form of EMD	:
Amount of Earnest Money Deposit	:
Date of Submission of EMD	:
	(Signature) Name and Designation of EMD receiving officer (EE/AE(P)/AO/AAO) along with office stamp

(On non-judicial stamp paper of minimum Rs. 100)

(Guarantee offered by Bank to CCU, MoEF&CC in connection with the execution of contracts)

Form of Bank Guarantee for Earnest Money/Performance Guarantee/Security Deposit

Whereas The Executive Engineer, CED-I, Civil Construction Unit (CCU), Ministry of Environment, Forest & Climate Change (MoEF&CC), 7th Floor, Pt. Deen Dayal Antyodaya Bhawan, CGO Complex, Lodhi Road, New Delhi-110003 on behalf of the President of India (here in after called "The Government") has invited bids under **NIT Number 29/e-NIT/EE/CED-I/CCU/2024-25** for **Providing and Installation of Water Bubbler and Aerating aquascapes at pond near Amphitheatre of National Zoological Park, New Delhi.**

The Government has further agreed to accept irrevocable Bank Guarantee for Rs (Rupees only) valid upto..... (date)*..... as **Earnest Money** from (name and address of contractor) (hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

Whereas The Executive Engineer, CED-I, Civil Construction Unit (CCU), Ministry of Environment, Forest & Climate Change (MoEF&CC), 7th Floor, Pt. Deen Dayal Antyodaya Bhawan, CGO Complex, Lodhi Road, New Delhi-110003 on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number with (Name and address of the contractor) (hereinafter called "the Contractor") for execution of work (name of work) The Government has further agreed to accept an irrevocable Bank Guarantee for Rs (Rupees only) valid upto (date) as **Performance Guarantee/security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

- 1) We (Indicate the name of the bank) (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs (Rupees only) on demand by the Government within 10 days of the demand.
- 2) We (Indicate the name of the Bank) do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees only).
- 3) We (indicate the name of the Bank), further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.

PART-B

**ADDITIONAL SPECIFICATIONS, PREFERRED MAKES
OF MATERIALS AND SCHEDULE OF QUANTITIES OF
THE ELECTRICAL & MECHANICAL WORK.**

ADDITIONAL SPECIFICATIONS FOR ELECTRICAL WORKS

1.0 GENERAL

- 1.1 The work shall be carried out strictly in accordance with CPWD specifications for Electrical Works 2023 (Internal) and 2023 (External) as amended up to date and in accordance with Indian Electricity Rules, 1956, Indian Electricity Act, 1910 as amended up to date and as per instructions of the Engineer-in-Charge.
 - 1.2 All hardware items such as screws, thimbles, and steel wires etc. required for completing an item as per specifications are deemed to have been included in the item even if not specifically mentioned in the item.
 - 1.3 All hardware materials such as MS nuts / bolts / screws / washers etc, to be used in the work shall be zinc coated / cadmium plated.
 - 1.4 All conduits shall be provided with G I fish wire for wiring, failing which recovery shall be made @ Rs. 10 per metre of conduit. While laying conduit, suitable junction boxes shall be provided wherever required for pulling the wires. Nothing extra shall be paid for fish wire and junction boxes.
 - 1.5 The contractor shall ensure that chase cutting machine is used for cutting chases for laying of conduit.
 - 1.6 Flexible conduits may be used only for interconnection between point and fitting in false ceiling.
 - 1.7 Telescopic rigid conduit may be used at expansion joints.
 - 1.8 The work is to be carried out as per approved drawings. The contractor should study the drawings issued by the engineer-in-charge and modifications, if any, required to comply with the specifications, standards, and statutory rules shall be incorporated and got approved from the engineer-in-charge before execution.
 - 1.9 The contractor shall make his own arrangements for temporary electricity and water connection, if required and make necessary payment including electricity and water charges for its use direct to the authority concerned. The engineer-in-charge will provide all possible assistance by way of reasonable recommendation for obtaining electricity connection to the concerned authorities but bears no responsibility for the same.
 - 1.10 The contractor shall ensure that the skilled labour such as electrician, wireman engaged in the execution of work possess valid license issued by appropriate authorities. The wireman / electrician not having valid license shall not be permitted to work.
 - 1.11 All chases, holes, recesses etc. for conduits and other allied work shall be made good to the original finish.
 - 1.12 The electrical fittings in areas of false ceiling/drop ceiling are required to be suspended/secured from ceiling with suitable hanging arrangement of galvanized iron chains / dash fasteners. The opening/ slit for fittings in false ceiling shall be provided by the agency executing the item of false ceiling. However, fixing of electrical fittings in the said opening / slit in a straight line, flush with the false ceiling shall have to be ensured by the contractor.
- 2.0 MATERIALS AND TESTING**
- 2.1 Acceptable makes of materials to be used in the work are enclosed. In case of non-availability of these makes, the engineer-in-charge may allow use of alternative makes.

- Only ISI marked materials shall be used in the work. Non ISI marked materials may be permitted by the engineer-in-charge only when ISI marked materials are not manufactured.
- 2.2 The material has to be got approved from Engineer-in-charge before use at site.
 - 2.3 The sample of the materials shall be submitted in advance to the engineer-in-charge and got approved before dispatch to the site of work. The contractor shall produce original invoice for procurement of electrical accessories, etc. from manufacturers or from their authorized dealers for authentication.
 - 2.4 The contractor shall take prior permission from the engineer-in-charge regarding location for storage and stacking of materials required for the work at site. The cost of construction of store and watch and ward charges shall be borne by the contractors.
 - 2.5 Copper wire up to 1.5 sq. mm may be of single strand whereas wires above 1.5 sq.mm shall be multi strand conductor and shall be terminated at both the ends with suitable size of copper thimbles / lugs. Nothing extra shall be paid for the same.
 - 2.6 All the DBs and switch gears shall have description of circuits and sub-mains in black paint. Nothing extra shall be paid on this account.
 - 2.7 Testing of electrical installations shall be completed at least 30 days before the scheduled completion date of the work so that all necessary adjustments are carried out and trial runs completed before the work is treated as complete and the equipment are taken over by the department.
 - 2.8 All the material shall be stand guarantee/warranty for a period of 1 year for any manufacturing defecate by the contractor from the date of commissioning of the system.
 - 2.9 All the electrical equipment shall be brought to site when the site is available for installation, with prior permission of the engineer-in-charge.
 - 2.10 The conduits for a large number of services may be required to be laid / embedded in RCC slab/walls or fixed on surface/cable trays. To enable identification of conduits of different services proposed in the building, the ends of conduits in junction boxes shall be painted as per the following colour schemes without any extra cost.

i)	Conduits for non-essential wiring	:	Black
ii)	Conduits for essential wiring	:	Blue
iii)	Conduits for inverter wiring	:	Light Green
iv)	Conduits for UPS wiring	:	Dark Green
v)	Conduits for fire alarm system	:	Red
vi)	Conduits for data/communication	:	Yellow
vii)	Conduits for public address, talk back system	:	Pink

**PREFERRED MAKES OF MATERIALS FOR ELECTRICAL & MECHANICAL
ITEMS**

All materials and Equipment shall conform to the relevant standards and shall be of approved make and design. The list of preferred makes for various equipments/materials etc. is given below. Any item missed out from the list should be got approved by the Engineer in Charge before delivery/ installation. Engineer-in-charge may, for any item, in the interest of work allow use of any other make/brand in addition to the makes/brands mentioned in the preferred makes lists subject to its satisfactory quality and on proper grounds like non-availability of preferred makes/brands in the market etc. In such case, cost adjustment shall be made if the make/brand actually used is priced lower than the lowest priced brands of that item in the preferred makes list. However, nothing extra shall be paid if actually used brand/make is of higher price than the highest priced brand/make in the list of preferred makes.

SL. NO.	ITEMS	MAKES
	ELECTRICAL INSTALLATIONS	
1	PVC INSULATED FRLS COPPER CONDUCTOR SINGLE CORE CABLE	POLYCAB/ANCHOR/ KEI/ HAVELLS/ RR KABEL/ FINOLEX
2	MS CONDUIT AND ITS ACCESSORIES	AKG/BEC / NIC
3	PVC CONDUIT AND ITS ACCESSORIES	BEC/ PRECISION/ NORPACK/ANCHOR
4	MODULAR SWITCH & SOCKET/ USB CHARGER/ TELEPHONE SOCKET / TV SOCKET / FAN REGULATOR	LEGRAND (ARTEOR)/ / SCHNEIDER (UNICA PURE) / MK -ORNA/ ABB (IVIE)/PANASONIC (EUROPA)
5	ANCHOR FASTENER	HILTI/ 3M/ FISCHER
6	UPVC/ HDPE PIPE/DWC	REX/ SUPREME
7	GI Box	MK/ Schneider/ LEGRAND
8	COMPRESSOR	VOLTAS/ BLUESTAR/ USHA
9	GI PIPE	TATA/ JINDAL (HISAR)
10	1.1 KV grade UG/Submersible cable	POLYCAB/ANCHOR/ KEI/ HAVELLS/ RR KABEL/ FINOLEX
11	JET NOZZEL	SPLENDER/ DEK/ RADIANT
12	BALL JOINT BRASS/ GM	SPLENDER/ DEK/ RADIANT
13	HIT-NYLON FILTER MESH	SPLENDER/ DEK/ RADIANT
14	1.5 HP PUMP STARTER	CROMPTON/ ABB/ C&S
15	1.5 HP SUBMERSIBLE PUMP	KSB/ KIRLOSKAR/ CROMPTON
15	FLOAT	SPLENDER/ DEK/ RADIANT

Note: - Executive Engineer, CED-I, CCU, MoEF&CC, New Delhi reserves the right to add or delete any materials and Brands in the list of approved materials/brands.

SCHEDULE OF QUANTITY

(Electrical and Mechanical Works)

Schedule of Work

Name of work:- Providing and Installation of Water Bubbler and Aerating aquascapes at pond near Amphitheatre of National Zoological Park, New Delhi.

S. No.	Description	Qty	Unit	Rate	Amount
1	Supplying, Installation, testing & Commissioning of 50 mm Column jet nozzles, made up of brass on existing water hub i/c adjusting and setting up at suitable angle to obtain the desired cascade effect etc. complete as required.	3.00	Nos	13261.00	39783.00
2	Providing and installation of 50 mm Ball Joint made in Brass/GM to give desired water effect, complete with all accessories etc. as required.	3.00	Nos	3184.00	9552.00
3	Supply & Fixing of 50mm diameter, 100 mm height, Non-Corrosive HIT-Nylon Filter mesh Suction Strainer to produce desired water effect complete as required.	3.00	Nos	3135.00	9405.00
4	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc.				
	Internal work - Exposed on wall				
a	50 mm dia nominal bore	50.00	Mtr.	1050.65	52532.29
5	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.				
a	63 mm dia (OD-63 mm & ID-51 mm nominal)	200.00	Mtr.	258.10	51619.88
6	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)				
a	50 mm nominal bore	6.00	Nos	1028.90	6173.39
7	Supplying of PVC insulated PVC sheathed 3 x 2.5 sq mm flat Submersible copper conductor cable complete as required.	320.00	Mtr	96.00	30720.00
8	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
a	Upto 35 sq. mm	200.00	Mtr.	38.66	7732.53
9	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	2.00	Set	7163.04	14326.08
10	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	20.00	Mtr.	254.96	5099.29

11	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	20.00	mtr.	43.89	877.75
12	Supplying Installation Testing and Commissioning of Starter panel for 1.5 HP/1.1 KW submersible pump set, having start capacitor 150-200 mF, Run capacitor of 100 mF, along with main incomer SP MCB of suitable rating, voltmeter, VSS, Phase indicating lamps, starter, complete, as required.	3.00	Nos	3054.00	9162.00
13	Supply and installation of 4 feet Diameter, 5mm thick nominal size float made out of non corrosive fibre glass body (FRP) capable to hold & housed inside it a 1.5 HP Submersible motor (suitable for operation on 3 phase 50 HZ 415 Volts AC supply), having corrosion resistant stainless steel 304 grade enclosure (of minimum size 0.3x0.3 Mtr.) for Pump , having required capacity to withstand pressure exerted by water Flow for stability, with less noise within audible decibels, capable of throwing maximum of 200 cumtr. of water Per Hr in air for high oxygen transfer, generating aerating water effect.	3.00	Nos	160094.00	480282.00
14	Supplying and Fixing of 10 mm Dia nylon rope to anchor and provide strength along with stability to the float, Complete as required.	300.00	Mtr	26.00	7800.00
	Total				725065.22
	Say				725065.00

Assistant Engineer (P)
CED-I, CCU, New Delhi

Executive Engineer
CED-I, CCU, New Delhi

CIVIL CONSTRUCTION UNIT					
N.I.T. No: 29/e-NIT/EE/CED-I/CCU/2024-25					
Name of work: Providing and Installation of Water Bubbler and Aerating aquascapes at pond near Amphitheatre of National Zoological Park, New Delhi.					
SCHEDULE OF QUANTITY					
Name of the Contractor					
Sl. No.	Name of component	Estimated cost (Rs.)	Percentage above or below the estimated cost	% in Figures	Total Cost (Rs.)
1	2	3	4	5	6
1	Electrical Works	7,25,065/-	*	*	*
	Total	7,25,065/-			

*- To be filled online in bid document.

- 1) The Column Nos. 4 & 5 are mandatory to be filled by the bidders / tenderers. If these columns are left blank, the tender become invalid.
- 2) The amount in figures in column No.6 shall appear automatically corresponding to the percentage quoted in column No.4 & 5.
- 3) The tenderer is required to quote the percentage only above or below or at par with the estimated cost to cover all the rates of item covered under the respective packages.
- 4) The percentage shall be written in 2 (two) places of decimal.
- 5) If the percentage selection in column No 4 is "At Par", by default the percentage will be considered as "Zero" only. In other words, if "At par" is selected in column No.4, then no need to fill column No.5