



राष्ट्रीय डिजाइन संस्थान, असम  
टोकलाई, राजाबारी, जोरहाट-785014 असम

**NATIONAL INSTITUTE OF DESIGN, ASSAM**  
**Tocklai, Rajabari, Jorhat-785014 Assam**

**(NIDJ/2025-26/ESTATE/NIT/1059)**

असम के एनआईडी में जल शोधन संयंत्र, अपशिष्ट शोधन संयंत्र और पंपिंग सिस्टम के वार्षिक रखरखाव सेवा के लिए  
निविदा आमंत्रण सूचना

**Notice Inviting Tender**

**For**

**Annual Maintenance Service for Water Treatment Plant, Effluent Treatment Plant &  
Pumping System at NID, Assam**

**Tender document**  
**For**  
**Annual Maintenance Service for Water Treatment Plant, Effluent Treatment Plant & Pumping System at NID, Assam.**

राष्ट्रीय डिजाइन संस्थान असम, उद्योग और आंतरिक व्यापार संवर्धन विभाग (डीपीआईआईटी), वाणिज्य और उद्योग मंत्रालय, भारत सरकार के तहत राष्ट्रीय महत्व का एक स्वायत्त संस्थान है। भारत की संसद द्वारा पारित एनआईडी (संशोधन) अधिनियम, 2019 के माध्यम से जोरहाट में स्थापित किया गया।

National Institute of Design Assam is an Autonomous Institution of National Importance under Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry, Govt. of India established at Jorhat through the NID (Amendment) Act, 2019 passed by the Parliament of India.

On behalf of Director NID, Assam, applications are invited from Interested and eligible vendor for **“Annual Maintenance Service for Water Treatment Plant, Effluent Treatment Plant & Pumping System” at NID, Assam.**

**CONTENTS**

<b>Sl. No.</b>	<b>Cover Details</b>	<b>Documents</b>	<b>Page no</b>
1.	<b>Cover-I (Hard copies to be submitted)</b>	Section- 1 Notice Inviting Tender	3-10
2.		Section- 2 Scope Of Work	11-11
3.		Section- 3 Instructions to Tenderers	12-19
4.		Section- 4 General conditions of the contract	20-22
5.		Section- 5 Special conditions of the contract	23-25
6.		Annexure - A Equipment List (Technical Data)	26-31
7.	<b>Cover-II (Hard copies to be submitted)</b>	Section- 6 Financial Bid	32-32

खंड- 1  
**निविदा आमंत्रण सूचना**  
Section- 1  
**Notice Inviting Tender**  
**National Institute of Design Assam**  
**Tocklai, Rajabari, Jorhat-785014**  
**NOTICE INVITING TENDER**

राष्ट्रीय डिजाइन संस्थान, असम नीचे उल्लिखित कार्य के लिए एनआईटी में उल्लिखित पात्र विक्रेताओं से दो बोली प्रणाली (तकनीकी और वित्तीय बोली) में खुली दर निविदाएं आमंत्रित करता है। सीलबंद दस्तावेज निर्धारित तिथि और समय से पहले मुख्य प्रशासक अधिकारी, एनआईटी असम, विलेज- टोकलाई, पोस्ट ऑफिस- राजाबारी, जोरहाट, असम- 785014 को ऑफलाइन जमा किए जाने हैं।

National Institute of Design, Assam invites open rate tenders in two bids system (Technical & Financial Bid) from eligible Vendors as mentioned in NIT for the work mentioned below. Sealed Documents are to be submitted Offline to Chief Administrator Officer, NID Assam, Vill- Tocklai, PO-Rajabari, Jorhat, Assam-785014 before the prescribed date and time.

**Brief Details of Tender:**

SL no.	NAME OF ITEM	Estimated cost put to bid (Rs.)	Earnest money deposit (Rs.)	PBG	Time of Completion	Tender Inviting authority
1.	Annual Maintenance Service for Water Treatment Plant, Effluent Treatment Plant & Pumping System at NID, Assam.	1,37,493.00/- (Including GST)	2750.00/- (2% of estimate cost)	10% of Contract Value	12 Months	Director

### Critical Data sheet

<b>Date &amp; Time For: -</b>	<b>Date and Time</b>
Date, Time & Venue of Pre-bid Meeting	: <b>16-01-2026 &amp; 15.30 hrs at Chief Administrative Office National Institute of Design, Assam Vill- Tocklai, PO-Rajabari Jorhat, Assam-785014</b>
Tender Document Publishing Date	: <b>12-01-2026</b>
Tender Submission Start Date	: <b>12-01-2026</b>
Tender Submission End Date	: <b>20-01-2026</b>
Last date of sending query through email related to the Tender document	: <b>16-01-2026</b>
<b>Last date of physical submission of documents as specified in Tender document (Super scribing Name of Work, Tender No., and Date/Time of Opening) in separate sealed envelope to the TIA with complete postal address.</b>	: <b>20-01-2026 up to 14.00 hrs</b>
Date of Opening of Pre-Qualification Criteria documents	: <b>20-01-2026 up to 15.30 hrs</b>
Date of Opening of Financial proposal	: <b>Would be informed later to the applicants qualifying in the technical bid.</b>
Details of Submission of Hard Copies	: <b>Chief Administrative Officer National Institute of Design, Assam Vill- Tocklai, PO-Rajabari Jorhat, Assam-785014</b>

## **ELIGIBILITY CRITERIA: -**

The agency must fulfil the criteria mentioned below.

The agency should have experience of having successfully completed similar nature of minimum one work in Central Govt./ State Govt. / Semi Govt. or with reputed Public/Reputed private Limited companies during the last 5 years.

Similar nature of work means as follows.

- i. Supplying, Installation, testing and commissioning of pumps/ accessories of pumps in Water Treatment Plant/ Water Supply Projects.
- ii. Supplying & fixing of filter media & spares in Water Treatment Plant.
- iii. Annual Maintenance Service for Water Treatment Plant, Effluent Treatment Plant & Pumping System.
- iv. Operation and Maintenance of Water Treatment Plant, Sewage Treatment plant & Effluent Treatment Plant.

Applications from consortium/Joint venture shall not be accepted. Joint venture/Consortium experience shall not be considered. Experience of only the bidding entity as a prime contractor shall be considered. A job executed by a bidder for his own or project of their sister concern/ Group Company shall not be considered as experience for the purpose of meeting requirement of experience criteria.

## **GENERAL DOCUMENTS TO BE PROVIDED: -**

- (i) Certified Copies of award letter/ Contract/Work Orders in support of execution of similar nature of work.
- (ii) Copies of Work Completion Certificate or Payment certificate in support of execution of similar nature of work.
- (iii) Copy of GST certificate and PAN Card.
- (iv) Other documents are required as per NIT.

### **3. EMD: -**

(a) The value of Earnest Money to be deposited by the tenderer should be 2% of the value of the estimated cost and shall be valid till bid validity period. EMD should be in the form of Demand Draft of any Nationalized Bank in favour of “National Institute of Design, Assam” payable at Jorhat and must accompany the technical bid i.e., Cover-I of the bid. For unsuccessful tenderer, EMD shall be refunded within 30 days without interest after the decision to award the work is taken. EMD shall be forfeited if any tenderer withdraws their offer before finalization of the tender. Earnest money shall be refunded on receipt of Performance Guarantee submitted on award of work. **MSME/NSIC registered organizations are exempted from submission of EMD.**

- 4. Before issuance of the work order, the Tender Inviting Authority may verify the credential & other Documents of the lowest tenderer if considered necessary. After verification, if it is found that such documents submitted by the lowest tenderer is either manufactured or false in that case, work order will not be issued in favour of the tenderer under any circumstances.
- 5. Penalty for suppression / distortion of facts: If any tenderer fails to produce the original hard copies of any documents on demand of the Tender Inviting Authority within a specified time frame or if

any deviation is detected in the original hard copies from the submitted Xerox copies or if there is any suppression of documents, such tenderer may be suspended from participating in the tenders for 3 (three) years. Besides, NID, ASSAM may take appropriate legal action against such defaulting tenderer.

6. Guiding schedule of rates: Schedule of rates of **Standard Market Rate**.
7. Prospective Tenderers shall have to execute the work in such a manner so that the appropriate service level of work / job is kept during progress of work and a period of 1 (One) year from the date of successful Completion of the work/ Date of issue of completion certificate to the entire satisfaction of Engineer-In-Charge. If any defect / damage is found during the period as mentioned above, the Agency shall make the same good at its own expenses to the specification at par with instant project work, or at any time thereafter become due to contract or from its bank performance guarantee.
8. Performance Security in the form of Bank Guarantee **10%** of Contract value from any Nationalized / Scheduled Bank in the prescribed format of NID, ASSAM to be deposited within **10 working days** from issue of Letter of Acceptance, failing which order shall be cancelled. The Performance Bank Guarantee shall be returned 12 months after satisfactory completion of the work.
9. Tenderers should quote as per the Price Bid format and in the allotted space only.
10. The acceptance of Tender and award of contract (AOC) to one and more than one Contractor, if considered necessary, will rest with the Employer who does not bind himself to accept the lowest Tender and will reserve to himself the authority to accept a Tender in whole or in part or reject any or all the Tenders received without assigning any reasons thereof and no explanation can be demanded for the cause of rejection of Tender by any Tenderer, neither any claim whatsoever on this score is tenable.
11. Bid Validity: The Tenders shall be valid for a period of 04 (four) months i.e. 120 days from the date of opening of the Price bid or any extension thereto.
12. Tender documents in which the Tender is submitted by a Tenderer shall become the property of the Employer and the Employer shall have no obligation to return the same to the Tenderer.
13. NID, ASSAM reserves the Right:
  - (i) To postpone/change/cancel the above-mentioned date, modify the terms and conditions include new items and conditions, split and distribute the work amongst more than one agency etc. in the interest of the Project(s)/ Company, without assigning any reason thereof.
  - (ii) To ask for further Clarifications etc., as and when required.
  - (iii) To cancel the Advt./ Enlistment of the Agency against the above Notice, anytime without assigning any reason for which no claim on any ground shall be entertained.
  - (iv) To verify the particulars furnished by the tenders independently, if any information furnished by the tenderer is found incorrect at any stage, the agency shall be liable to be debarred from tendering/cancellation of order including imposition of penalty or any other action is deemed necessary.
  - (v) To accept or reject any or all the applications received, at its own discretion, without assigning any reasons thereof for which no claim on any ground shall be entertained. Tenders in which additional conditions put forth by the agencies, shall be summarily rejected.

**Form 1: Details of Responding Organization**

(To be submitted in Bidder's Letter head)

Section	SL. No	Particular	Detail
I	<b>COMPANY PROFILE:</b>		
	1.	Name of the Organization (Appearing on PAN Card):	
	2.	Registered Office Address:	
	3.	Name with designation of Contact Person:	
	4.	Contact No:	
5.	E mail ID:		
II	<b>STATUTORY DETAILS:</b>		
	1.	GSTIN Number:	
	2.	MSME: (Yes or No)	
		MSME Registration No. and validity date: (if yes)	
	3.	NSIC: (Yes or No)	
		NSIC Registration No. and validity date: (if yes)	
4.	PAN No:		
III	<b>BANK DETAILS: -</b>		
	1.	Name Of the Bank & Branch:	
	2.	Address of Bank:	
	3.	Bank Account No.	
	4.	IFSC Code	

Declaration by Director/ Proprietor/ Partner:

I/We declare that the information furnished above are correct to the best of my/our knowledge /belief. I/We undertake to inform you of any change in above particulars at the earliest.

**AUTHORISED SIGNATORY (Name and Designation)**

Name of Firm:

Address:

E-mail ID:

Contact details:

Date:

**Form 2: Relevant Project Experience**  
(To be submitted in Bidder's Letter head)

SL. No	Name of the Work/nature of the Work	Client name	Completion date	Contract Value

**AUTHORISED SIGNATORY (Name and Designation)**

Name of Firm:

Address:

E-mail ID:

Contact details:

Date:

**Form 3: DECLARATION - 1**  
(To be submitted in Bidder's Letter head)

Tender No.: **NIDJ/2025-26/ESTATE/NIT/1059**

We, do hereby accept the General Terms and Conditions, Scope of work Special Conditions of Contract, Technical Specifications etc. as provided by the NID ASSAM along with tender documents for **Annual Maintenance Service for Water Treatment Plant, Effluent Treatment Plant & Pumping System at NID, Assam, Assam** and undertake to execute the job strictly as per the specifications & drawings as provided along with the tender documents in the event of placement of any work order on us.

Signature of the tenderer / Constituted Attorney.  
(With date and Official Seal)

Place:  
Date:

**Form 4: UNDERTAKING - 1**  
(To be submitted in Bidder's Letter head)

Tender No.: **NIDJ/2025-26/ESTATE/NIT/1059**

This is to certify that I/we have carefully gone through the drawings/specifications/scope of work, etc. given in the tender document & have clearly understood the site working conditions, time schedule given and have accordingly quoted my balanced rates after going through all details. I/we hereby give an undertaking that I/we shall carry out the work strictly as per the given specifications and shall complete the same within the stipulated time frame.

Signature of the tenderer / Constituted Attorney.  
(With date and Official Seal)

Place:  
Date:

**खंड - 2**

**कार्यक्षेत्र**

**Section - 2**

**SCOPE OF WORK**

1. The Tenderer shall provide the maintenance services to the National Institute of Design, Assam for maintenance of the Installation listed in **Annexure -A**.
2. It shall be the responsibility of the tenderer to keep the Installation covered under AMC in sound operating condition.
3. The tenderer during its normal working hours shall depute one supervisor and one mechanic, **not less than 4 times per year** and the following scope of works shall be attended during the AMC visits-
  - i. Checking/Testing/Cleaning/Oiling/Greasing of all electro-mechanical Installation's i.e., electrical motors, pumps, water treatment plant & effluent treatment Installation's air blowers, chemical dosing, electrical panels, piping, valves & other accessories. **The Minor Material Like Oil, Grease etc. will not be provided by NID, Assam.**
  - ii. Rectification / repair of equipment such as filters, pump, air blower or electrical panel at site, in case NID keeps spares in store and submission of report to NID Assam.
  - iii. Checking operation of all filters installed in water treatment plant.
  - iv. Getting extended backwash of all filters by opening the manhole covers of filters.
  - v. Quality check of filter media filled in the filters. In case same are required to be replaced or recharged, supervisor of tenderer shall submit report to NID Assam for immediate, procurement of filter media such as gravels, silica sand, iron removal media, anthracite and activated carbon.
  - vi. Checking the operation of Effluent treatment plant.
4. Upon notification by the NID Assam of a breakdown or failure in the installations, the tenderer shall send soon as may reasonably be possible (preferably within 36 Hours after reporting by NID Assam), a technician to carry out necessary repairs to restore the Installation to satisfactory operating condition subject to free of cost Consumable item (at emergency) paid separately as per actual by NID Assam.
5. The maintenance service shall consist of corrective & preventive maintenance service including carrying out necessary repairs / replacements. The cost of spare parts and components shall be borne by the NID Assam, however fittings and fixing of the same shall be in scope of the tender whenever required during the scheduled AMC visits or breakdown.

**धारा -3**  
**निविदाकर्ताओं के लिए निर्देश**  
**Section -3**  
**INSTRUCTION TO TENDERERS**

1. Bids are invited by NID, ASSAM on **two bid** systems for **Annual Maintenance Service for Water Treatment Plant, Effluent Treatment Plant & Pumping System at NID, Assam**. to be submitted offline in two separate sealed envelopes superscribed as [Technical bid and financial bid], both put inside one single envelope, before the prescribed date & time in NIT.

2. Offline mode of Bid submission will be followed for this bid. Bids submitted after prescribed date and time shall not be accepted.

**3. Clarification of Bids**

3.1. Clarification of any doubts of the intending tenderers related to Bid document and scope of work can be mailed to **tenders@nidj.ac.in**. Name of the tenderer with details of the Tender should be mentioned with the clarification sought without which no response shall be provided to that query.

3.2. The response to the query/ clarification raised by any tenderer will be uploaded on the website along with queries/clarifications raised or mailed to them. Accordingly, corrigendum shall be published (if required).

3.3. No Queries shall be entertained after the last date for raising of query.

**4 Amendment to the bidding document**

4.1 At any time prior to the deadline for submission of Bids, NID Assam, for any reason, whether, at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the Bidding Document, by amendment.

4.2 In order to allow prospective Bidders reasonable time in which to take the amendment into account in preparing their Bids, NID Assam, at its discretion, may extend the deadline for the submission of Bids.

**5. Cost of Bidding**

The Bidder shall bear all the costs associated with the preparation and submission of its Bid, and NID Assam will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the Bidding process.

**6. Format and signing of Bid.**

**6.1 The Bidder shall prepare and submit the original bid, with signature of the authorized person on all papers.**

6.2 The Original bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person(s) duly authorized to bind the Bidder to the contract. The person signing the bids shall initial all the pages of the bids, except for unamended printed literature.

6.3 Any interlineations, erasure or overwriting shall be valid only if they are initialed by the person signing the bids.

## 7. Sealing and Marking of Bids

7.1 The bidder shall submit ONE sealed envelope containing (i) **technical bid and (ii) Financial Bid/Price Bid** in two separate envelopes.

7.2 **Cover I (Technical Bid):** Bidder should submit all documents pertaining to Eligibility Criteria mentioned in NIT, Letter of Transmittal (In Company's Letter Head) and Copy of Credentials/Certificates for qualifying Eligibility Criteria as specified in NIT. Bidder should submit the NIT Document along with GCC, SCC, ITT, Form of Tender, Form of Performance Security, EMD, Technical Specifications.

7.3 **Cover –II (Financial Bid):** The financial Bid format is provided, the rates offered should be entered in the allotted space only. The Financial Bid/BOQ template must not be modified/replaced by the bidder; else the bid submitted is liable to be rejected for this tender. In the event, no rate has been quoted for any item(s), leaving space in figure(s), words(s) and amount blank, it will be presumed that the bidder has included the cost of this/these item(s) in other items. Rates for such item (s) shall accordingly, be considered as Zero and no payment shall be made for the works to be done by the bidder as per item/these items.

**The two sealed envelopes indicated in 7.2 and 7.3 shall be enclosed inside a separate envelope superscribed with the name of the work, tender no., name and address of the bidder.**

The envelope shall be addressed to NID, Assam at the address given below:

**Chief Administrative Officer  
National Institute of Design, Assam  
Vill- Tocklai, PO-Rajabari Jorhat, Assam-785014**

7.4 If the envelope is not sealed and marked, NID Assam will assume no responsibility for the Bid's misplacement or its premature opening.

## 8. Contacting NID Assam

8.1 Bidder shall NOT contact NID Assam on any matter relating to its Bid, from the time of opening of Bid to the time a communication in writing about its qualification or otherwise received from NID Assam.

8.2 Any effort by the Bidder to influence NID Assam in its decisions on Bid evaluation, Bid comparison may result in the rejection of the Bid.

## 9. Award of Contract

NID Assam will award the contract to the successful Bidder, out of the Bidders who have responded to NID Assam's tender as referred above, who has been determined to qualify to perform the contract satisfactorily, and whose Bid has been determined to be substantially responsive and is the lowest evaluated Bid. Letter of acceptance (LOA) will be provided to the successful bidder and within 10 days of receipt of the LOA, Performance bank guarantee has to be submitted, failing which the bid shall stand cancelled. On submission of PBC, letter of commencement of work shall be issued.

10. The employer reserves the right to postpone the date for presentation and opening of Tenders and will give timely notice of any such postponement to the prospective Tenderers.

- i. Acceptance or rejection of any tender is left entirely to the discretion of the authority empowered to deal with the matter and no query/ explanation can be demanded by any Tenderer for the cause of rejection of his tender.
- ii. If the Tenderer deliberately gives wrong information in his Tender or creates circumstances for the acceptance of his tender, the NID Assam reserves the right to reject such Tender at any stage.
- iii. If a Tenderer seeks clarifying his quotations or rates, this should only be done in a separate covering letter. No material modifications to the specifications, item descriptions, contract clause, etc. will however be entertained. Other clarifications may be considered. The contents of a covering letter sent along with the tender will be considered as part of the quotation. If any of these conditions admitted for consideration has a financial bearing on the cost quoted, the additional cost arising out of these conditions will be added for comparative evaluation of tenders.
- iv. By submitting a tender for the work, a Tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the work, that the rates quoted by him in the tender will be adequate to complete such work according to the specifications and conditions attached thereto and he has taken into account all conditions and difficulties that may be encountered during its progress and to have quoted labour and material rates which shall include cost of materials with taxes, Octroi and other duties, lead, lift, loading and unloading, freight for materials, and all other charges including the furnishing of all plant, Equipment, tools, scaffolding and other facilities and services, necessary or proper for the completion and maintenance of the work, except such as may be otherwise expressly provided for in the contract documents for the completion and maintenance of the work to the entire satisfaction of the Engineer.
- v. The successful Tenderers shall make his own arrangements for all materials, except as specified in the contract, if any.
- vi. The quantities shown in the attached schedule are given as a guide and approximate only and are subject to variation according to the needs of the Employer. The Employer accepts no liability for their accuracy. The Employer does not guarantee work under each item of the schedule.
- vii. Each page of the tender shall be signed by the Tenderer. Tender by partnership or joint family firm may be signed in the firm's name by one of the partners or managers as the case may be or any other duly authorized representative followed by the name and designation of the persons so signing. An attested copy of the partnership deed must accompany the tender of any partnership firm. Tenders by a company shall be signed with the name of the company by a person authorized on this behalf and Power of Attorney or other satisfactory proof showing that the person signing the tender documents on behalf of the company is duly authorized to do so, shall accompany the tender. The Employer will not be bound by any Power of Attorney granted by the Tenderers or by changes in the composition of the firm, made subsequent to the execution of the contract. It may, however, recognize such Power of Attorney and changes after obtaining proper legal advice, the cost of which may be chargeable to the contractor.
- viii. With their quotations the Tenderers shall submit by manually signing all schedules, specifications, GCC, special conditions, etc. in token of acceptance thereof. The signature on the tender schedule alone shall also be deemed to be taken as acceptance of all these.
- ix. If a Tenderer expires after the submission of his tender or after the acceptance of his tender the Employer may deem such tender as cancelled. If a partner of the firm expires after the

submission of their tender, the Employer may deem such tender as cancelled UNLESS THE FIRM RETAINS its character.

- x. If the Tenderer has a relative employed in any capacity in the NID, ASSAM, he shall inform the authority calling for tenders of the said fact when submitting his tender, failing which his contract may be rescinded. If the said fact subsequently comes to light, he shall be liable to make good to the Employer any loss or damage resulting from such cancellation.
- xi. No contract work however petty may be carried out except under and in accordance with a duly executed agreement or on a special written authority from a duly authorized officer of the Employer.
- xii. No agreement is valid unless signed by contractor or his duly authorized agent and by a competent person on behalf of the Employer.
- xiii. Form of Tender, Invitation to Tender, Instruction to Tenderer, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawing and the rates and amount accepted against the items of the Tender schedule together with the tender covering letter, and all correspondence entered into between the Employer and the Tenderer prior to the issue of the Letter of Acceptance and the Letter of Commencement awarding the work shall form the contract.
- xiv. If there is any conflict between any of the provisions in the special conditions and those in any of the other documents referred to, the provisions in the special conditions shall prevail.
- xv. If there be any difference between the description in the specification and drawings and the works items in the tender schedule, the work items in the Tender schedule shall prevail for determining the rates.
- xvi. In the event of any discrepancy between the rate quoted in the Tender in words and these quoted in figures, the rates quoted in words shall control.
- xvii. Acceptance of the tender will be intimated to the successful Tenderer through a letter of acceptance. The contractor shall then be required to execute an Agreement within the time specified in the letter of Commencement. In the event of failure on the part of the contractor to sign the Agreement within the specified time, the acceptance of his tender shall consider as withdrawn.
- xviii. On completion of the work, contractor will hand over the work to the Employer /NID, ASSAM in approved format and after clearing the site to the entire satisfaction of the Client.
- xix. After issue of letter of Commencement of work, Contractor shall execute the formal Agreement in approved format on non-judicial stamp paper of not less than Rs. 100/- (Rupees One Hundred only) within 7 days from the issue of letter of commencement of work. The cost of stamp paper shall be borne by the Contractor.

11. **The bidder is encouraged to visit and examine the Site of Works and its surroundings and obtain all information that may be necessary for preparing the NIT. The costs of visiting the site shall be at the agency's own expense.**
12. Any tender received by the Employer after the prescribed deadline will be returned un-opened to the bidder.
13. The quantities furnished in this schedule are only approximate and can be increased or decreased at the discretion of NID, Assam.
14. In case the agency leaves the work incomplete, NID, Assam shall have the right to have the work completed through any other agency and recover the extra expenditure incurred by NID, Assam in so doing from any money due or to become due to the agency.

15. The bidder shall be solely responsible for the authenticity of the documents or other details submitted by them. Any mismatch found later by the institute may lead to blacklisting of the bidder from participating in future bids.
16. The details of Taxes/GST and other levies legally leviable and intended to be claimed should be clearly indicated in the NIT. Where this is not done, no claim on these accounts would be admissible later.
17. During scrutiny, if it comes to the notice to the Tender Inviting Authority that the credential or any other Papers submitted is incorrect / manufactured / fabricated, in such case(s) tender will not be considered for evaluation and that Tender Documents will be outrightly rejected without any prejudice.
18. Before issuance of the work order, the Tender Inviting Authority may verify the credential & other Documents of the lowest tenderer if considered necessary. After verification, if it is found that such documents submitted by the lowest tenderer are either manufactured or false in that case, a work order will not be issued in favour of the tenderer under any circumstances.

**LETTER OF TRANSMITTAL**  
(In the Letter Head of the Bidder)

**To**  
Director

National Institute of Design Assam, Tocklai, Rajabari, Jorhat-785014, Assam

**Sub:** Submission of Tender for the work of "**Annual Maintenance Service for Water Treatment Plant, Effluent Treatment Plant & Pumping System**"

**Ref:**

Dear Sir,

Having visited the Site, ascertained the Site conditions, and examined the General Conditions of Contract as well as Special Conditions of Contract, Notice Inviting Bids, Instructions to Bidders, of NID, Assam etc. and addenda for the above project, we the undersigned, are pleased to submit our Bid along with relevant documents as below: -

We acknowledge our unconditional acceptance of all the terms & conditions of the Tender.

While preparing this Bid, we gathered our own information and conducted our own inquiry / survey to our satisfaction, and we did not rely solely on the information provided in this BID. We shall not hold **NID, Assam** responsible on any account in this regard.

We undertake, if our Bid is accepted, to commence the works within the stipulated time and to complete the whole of the works comprised in the Contract document within the stipulated time based on the reckoned date of start as scheduled.

If our Bid is accepted, we will furnish a bank guarantee as Performance security for the due performance of the Contract. The amount and form of such guarantee or bond will be in accordance with as given in the tender document.

We are aware that in the event of a delay in the execution of the Project, beyond the agreed schedule due to reasons attributable to us, liquidated damages shall be recovered from us as per Conditions of Contract.

Our Bid is valid for a period of **120 days** from the date of opening of the Price Bid or any extension thereto. We agree to the General Conditions of Contract and Special Conditions of Contract and the terms and conditions mentioned in the BID.

We declare that for submission of this Bid confirms that no agent, middleman, or any intermediary has been, or will be engaged to provide any services, or any other item of work related to the award of this Contract. We further confirm and declare that no agency commission or any payment, which may be construed as an agency, commission has been, or will be, paid and that the Bid price does not include any such amount. We acknowledge the right of **NID, Assam**, if it finds anything to the contrary, to declare our Bid to be non-compliant and if the Contract has been awarded to declare the Contract null and void.

We understand that you are not bound to accept the lowest or any Bid you may receive.

If our Bid is accepted, we understand that we are to be held solely responsible for the due performance of the Contract.

We enclose all documents as required in the Bid.

Dated this \_\_\_\_\_ day of 2023.

Signature \_\_\_\_\_

Name \_\_\_\_\_ in \_\_\_\_\_ the \_\_\_\_\_ capacity \_\_\_\_\_ of duly  
authorized to sign Bids for and on behalf of \_\_\_\_\_

Address \_\_\_\_\_

## FORM OF AGREEMENT

This Agreement is made on .....

BETWEEN

The **National Institute of Design, Assam** (hereinafter called as "Institute" of the one part)

and

**M/S.....** (hereinafter called as "Contractor" of the other part). WHEREAS the Institute floated **Tender No. NIDJ/2022-23/Estate/Elec/.....** dated 02-04-2023 for **Annual Maintenance Service for Water Treatment Plant, Effluent Treatment Plant & Pumping System** ". and accepted the quote submitted by the contractor vide **LOA, No .....** & **Work order No.....**

NOW THIS AGREEMENT WITNESSTH as follows: -

In this agreement words and expressions shall have the same meaning as are respectively assigned to them in the conditions of contract hereinafter referred to.

This agreement is valid for the period of ..... w.e.f ..... or the date of signing of this agreement, whichever is earlier.

The following documents shall be deemed to form and be read and construed as part of this Agreement viz –  
The Tender Document along with all annexures.

Accepted Item Rate offer by .....

Correspondence between the Institute and the Contractor prior to issue of the letter of Acceptance,  
In consideration of the payments to be made by the Institute to the contractor as mentioned hereinafter, the contractor hereby covenants to complete the "Operation & Maintenance of Water Treatment Plant, Effluent Treatment plant, Sewage Treatment plants along with plumbing and sanitary fittings and fixtures at NID, Assam in conformity in all respects with the provision of the contract.

The Payment shall be made as given here under:

..... payable against the completion of the work as per the terms and conditions of the tender.

(c) All payments due under the contract shall be paid after deduction of statutory levies at source like TDS, GST, etc., wherever applicable. Any other document, if required by the accounts department for processing of bills, must be produced and shall be binding on the contractor.

In consideration of the payments to be made by the Employer to the contractor as here-in- after mentioned the contractor hereby covenants with the Employer to construct, Complete, and maintain the works in conformity in all respects with the provision of the contract.

**Defect Liability Period (DLP)** shall be considered 12 months from the date of Handing over of the work with satisfactory completion of the works as certified by NID, Assam.

IN WITNESS WHEREOF THE parties hereto have hereunto set their respective hands and seals the day and year first above written. Signed, sealed, and delivered by the said:

Signed, sealed, and delivered by the said

..... in the presence of.

Dated signature of Contractor

Dated signature of the Employer

in the .....

Designation

capacity.....

on behalf of

.....

WITNESS:

## FORM OF TENDER

Tenderers/Bidders are requested to fill up all the blank spaces in this Tender Form.

To .....

Name of work:

.....(As shown in the invitation to Tender.) Gentleman,

Having examined the invitation to Tender, Instruction to Tender, GCC, Special conditions, Specifications, Tender Schedule and Tender Drawings for the Construction of the works mentioned above, we the undersigned offer to construct the whole of the said works in conformity with the said Tender documents for the sum of or such other sum as may be ascertained in accordance with the said conditions.

We undertake, if our Tender is accepted, to commence the works within **15 (Fifteen) days** from the date of signing the contract or Letter of Commencement/Work order, complete and deliver the whole of the works comprised in the contract within days calculated.

from the date of signing the contract or Letter of commencement/work order.

We agree to abide by this Tender for the period of 120 (one hundred twenty) days from the date of opening of the price Bid and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Unless and until a formal Agreement is prepared and executed, this Tender, together with your written acceptance thereof, shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any Tender you may receive.6.

Dated this ..... day of .....

Signature of witness .....  
in the capacity of .....  
duly authorized to sign.

Date ..... Tenders for and on behalf of (BLOCK

LETTER)Occupation of witness: Date .....

Address .....

Signature of witness .....  
in the capacity of .....  
duly authorized to sign.

Date ..... Tenders for and on behalf of (BLOCK

LETTER)Occupation of witness: Date .....

Address .....

**ধারা- 4**

**अनुबंध की सामान्य शर्तें**  
**Section- 4**

**GENERAL CONDITIONS OF THE CONTRACT**

**1. PERFORMANCE SECURITY:**

- a) The successful Tenderer will have to deposit a Performance Security of 10% of the value of contract awarded by way of Demand Draft / Fixed Deposit Receipt (FDR) / from a nationalized bank and hypothecated in favour of “**National Institute of Design, Assam**” with a validity of 60 days beyond completion of work / contract and shall be renewed on extension of contract.
- b) The Performance Guarantee will be discharged by NID, Assam after completion of the Contractor’s obligations including any warranty obligations under the contract.
- c) The performance Guarantee (PBG) shall be released after the physical completion of the work based on the ‘completion certificate’ issued by the competent authority stating that the agency has completed the work in all respects satisfactorily.
- d) The PBG shall be liable to be forfeited by the NID, Assam in case of any breach of any term and conditions of this contract by the contractor.

**2. UNSATISFACTORY WORK:**

- a) In the event of Contractor’s failure to execute the contract to the satisfaction of the NID, Assam, the NID, Assam reserves the right: to reject any part of the Contract executed and withhold payment for such portion of the Contract till such time the defects are rectified to the satisfaction of the NID, Assam.
- b) In the event of Contractor’s failure to execute the contract to the satisfaction of the NID, Assam, NID, Assam reserves the right to terminate the Contract by giving 1 months’ notice in writing without assigning any reason and to get the Contract executed by other agency at the risk and cost of the Contractor.

**3. LAW GOVERNING THE CONTRACT:**

This Contract shall be governed by the laws of India from time to time.

**4. SETTLEMENT OF DISPUTES:**

- a) NID, Assam and the Contractor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- b) If the parties have failed to resolve their dispute or differences by such mutual consultation, then either the Institute or the Vendor may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or differences in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract.

## **5. ARBITRATION:**

In the event of any dispute or differences arising out of in connection with any of the terms and conditions of the Contract, the matter shall be referred to the Director, NID, Assam for settlement. In case the parties to the contract are not able to settle the dispute mutually, the matter shall be referred to a Sole Arbitrator to be appointed in accordance with the Arbitration & Reconciliation Act, 1996 & Arbitration and Conciliation (Amendment) Act, 2015 as amended from time to time and Place of arbitration shall be JORHAT.

## **6. GENERAL LIEN:**

Whenever under this contract any sum of money is recoverable from and payable by the Contractor, NID, Assam shall be entitled to recover such sum by appropriating in part or in whole the Performance security deposit of the Contractor, if a security is taken from the Contractor. In the event of the Security being insufficient, the balance or the total sum recoverable, as may be, shall be deducted from any sum due to the Contractor or which at any time thereafter may become due to the Contractor under this or any other contract with NID, Assam. Should this sum be not sufficient to cover the full amount recoverable, the Contractor shall pay to NID, Assam on demand the remaining balance due.

## **7. FORCE MAJEURE:**

If any time, during the continuance of this contract, the performance in whole or in part by either party under obligation as per this contract is prevented or delayed by reasons of any war or hostility, act of the public enemy, civil commotion, sabotage, fire, flood, explosion, epidemic or pandemic (Covid-19), quarantine restrictions, strike, lockout or acts of God (hereinafter referred to “eventuality”), provided notice of happening of any such eventuality is given by either party to the other within 15 days of the date of occurrence thereof, neither party shall be reason of such an “eventuality” be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance and deliveries under the contract. The contract shall be resumed as soon as practicable after such “eventuality” has come to an end or ceased to exist. In case of any dispute, the decision of Director, NID, Assam shall be final and conclusive, provided further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reason of any such eventuality for a period exceeding 60 days, either party may at its option, terminate the contract. Provided also that if the contract is terminated under this clause the NID, Assam shall be at liberty to take over from the Contractor at a price to be fixed by the NID, Assam, which shall be final, all unused, undamaged and acceptable materials, bought out components and other stores ,which may be in the possession of the Contractor at the time of such termination, or such portion thereof as the NID, Assam may deem fit except such material, as the Contractor may, with the concurrence of the NID, Assam, elect to retain.

## **8. TERMINATION FOR DEFAULT:**

The NID, Assam, may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the Contractor, terminate this contract in whole or in part.

- a) If the contractor fails to rectify a failure in the performance of their obligations.
- b) If the contractor fails to deliver any or all the services within the time, specified in the contract, or any extension thereof granted by the NID, Assam.
- c) If the Contractor, in either of the above circumstances, does not remedy his failure within a period

of 15 days (or such longer period as the NID, Assam may authorize in writing) after receipt of the default notice from the NID, Assam.

- d) If the contractor fails to comply with any final decision reached because of arbitration proceedings.
- e) If the NID Assam, in its sole discretion and for any reason whatsoever, decides to terminate this contract.
- f) If the contractor, in the judgement of the NID, Assam has engaged in corrupt or fraudulent practices in executing the contract.
- g) In case the contract is terminated, the balance amount of fee if any, paid earlier (advance) shall be paid back by the contractor to NID, Assam within thirty days of termination letter, failing which the same shall be recovered by encasing the existing performance security deposit submitted by contractor.
- h) On a notice period of 90 days.

**धारा-5**  
**अनुबंध की विशेष शर्तें**

**Section- 5**

**SPECIAL CONDITIONS OF THE CONTRACT**

**1. PLACE OF ANNUAL MAINTENANCE CONTRACT:**

National Institute of Design, Assam  
Village tocklai, Post office Rajabari  
Jorhat- Mariani Road, Jorhat, Assam-785014

**2. PAYMENT TERMS:**

- a) Annual Maintenance fees shall be payable by the NID Assam to the successful bidder, half yearly in two installments.
- b) NID Assam shall pay 50% of AMC charges to the successful bidder after completion of 6 (Six) Months and Minimum Visit of 2 (two) Times. Balance shall be paid after satisfactory completion of the AMC period and four visits.

**3. URGENT WORKS:**

If any urgent work (in respect whereof the decision of the of the Engineer in charge NID, Assam shall be binding and final) become necessary for the safety of the work or personnel and the Contractor is unable or unwilling to carry it out, the Engineer -in-charge, NID, Assam shall have the right to employ other agencies as he may consider expedient. Labour charges and transportation charges only will be deducted from the vendor if not attended on time.

**4. Specialized work and new work:**

If any New work is in respect to requirement of new asset, installation of new asset of new building, where quantity of the material and manpower cost is exceeding the permitted amount as per GFR rules, the work will be awarded through tendering only. If any Specialized work is in respect to shifting of equipment's, testing, calibration, troubleshooting, and programming is required the contractor shall submit quotation and NID shall award the work as per approval.

**5. PERIOD OF CONTRACT:**

- a) This Annual maintenance contract will be valid for a period of one (01) year from the date of taking over by the party which is not later than fifteen days of issue of work order / service order. However, the contract may be extended for next year on same rates, terms and conditions if the contractor's performance is found satisfactory. The performance would be evaluated by institute authorities before renewal of contract.
- b) The Contractor at the request of NID, Assam shall render the service at the same rates, terms and conditions of the contract for spill over period not exceeding Three (3) months of the expiry of the contract, in case there is any delay in establishing the new contract.

**6. SPARE PARTS:**

NID assam shall provide spare parts as and when required based on the inspection reports provided by the successful tenderer required for the repair/maintenance of the Installations covered under Annexure-A. The replaced /Worn out parts shall be the property of NID assam.

## **7. Liquidated Damages:**

Liquidated damages (LD) clause shall be applicable as 0.50% (1/2 Percent) per week of the Contract Value. The LD shall be deducted if the Vendor does not attend the breakdown within stipulated time & AMC visit beyond reasonable period. The maximum amount of the LD shall be 5% (Five Percent) of the Contract Value.

## **8. PERSONAL ACCIDENT INSURANCE:**

The entire contractor employee will have to be covered under insurance against any personal accident and NID, Assam will not be liable for payment of any compensation on that account.

## **9. SAFETY:**

- a) The Contractor shall at his own cost provide the materials necessary for safety of all the workmen and shall ensure that no damage, injury or loss is caused or is likely to be caused to any person or property.
- b) The contractor should take care of all safety precautions in respect of workers engaged by him by providing adequate safety appliances. He should see that the safety practices are adopted all the times to avoid any untoward incidents failing which he will be liable for penalty and compensation to be paid to his Labour's.

## **10. ACCIDENT OR INJURY TO WORKMEN:**

NID, Assam shall not be responsible for any injury or loss of any workers of the contractor that may take place while on work any compensation or expenditure towards treatment for such injury or loss of life shall be the sole responsibility of the contractor. The contractor is solely responsible for any damage or injury or accident that may occur to any of his personnel working under this contract. He will not claim any compensation from NID, Assam.

## **11. CONTRACTOR'S CO-ORDINATION**

If during Contractor's work, other works of NID, Assam or works of other Contractors of NID, Assam are also in progress inside the NID, Assam Campus, the contractor is expected to work in harmony with all the others and in the best interest of NID, Assam.

## **12. TOOLS & PLANTS:**

All the general & special tools, tackles, etc. required for proper maintenance and repairs/break down etc., shall be arranged by the contractor at his own cost and issue to the staff deployed by him for this work. The quoted rates shall be deemed to include the above and nothing extra shall be paid on this account.

## **13. Other Terms & Conditions: -**

- a) Plants should be operated as per the manufacturer's user manual.
- b) All disciplinary rules and regulations as enforced are to be followed by the work force of the Contractor during their stay at the premises.
- c) All the materials, spare parts, consumable such as oil, grease etc. will be arranged by successful

firm/ contractor/agency without any extra cost.

- d) No advance payment will be made to the Contractor.
- e) The tenderers are required to visit the plant site to see the actual installations themselves to assess the quantum of work involved before submitting the tender. Once the tender is submitted, it will be presumed that the tenderer has seen and understood the complete work involved for each of the systems.
- f) No accommodation & transportation facility will be provided by the NID Assam.

**अनुलग्नक - ए**  
**स्थापना विवरण (तकनीकी डेटा)**

**Annexure - A**  
**Installation Details (Technical Data )**

**TECHNICAL DATA OF PUMPS FOR PUMPING SYSTEM**

**Water Supply Pumps**

Type	I		Treated Water Pumps
	Filter Feed Pumps	II	
Quantity	:	TWO	THREE
Make	:	KSB	KSB
Model	:	ETN – 065 – 050 - 315	ETN – 050 – 032 - 200
Capacity	:	30 m3/hr.	24 m3/hr.
Head (M.)	:	30	50
Liquid	:	Water	Water
Sp. Gravity	:	1.0	1.0
Temperature	:	Ambient	Ambient
Suction Size (mm)	:	80	80
Delivery Size (mm)	:	50	50
Material of Construction			
a) Casing	:	Cast Iron	Cast iron
b) Impeller	:	Bronze	Bronze
c) Shaft	:	Mechanical	Mechanical
d) Base Frame	:	M.S.	M.S.
bkw	:	4.23	5.85
Recommended H.P.	:	7.5	10
RPM	:	1450	2900
Type of Motor	:	IP55 Class F	IP55 Class F
Make of Motor	:	Kirlokar	Kirlokar

**TECHNICAL DATA OF CHEMICAL DOZING SYSTEMS FOR PRE CHLORINATION & COAGULATION**

**TECHNICAL DATA**

UNIT TYPE	:	Chemical Dosing System
PUMP TYPE	:	Electronic Metering Pump
PUMP MODEL	:	V-12
PUMP CAPACITY	:	6 LPH.
MAX. INJECTION PRESSURE	:	3.5 Kgs./cm <sup>2</sup> .
MATERIAL OF CONSTRUCTION	:	PVC.
ELECTRIC POWER REQUIRED	:	Single phase 220 V A.C. Supply.
ALLOWABLE PULSES AT MAX. SPEED	:	95-110 SPM.
CHEMICAL TUBE DOSED	:	Sod. Hypo Chlorite.
CHEMICAL SOLUTION TANK	:	200 Liters.
M.O.C.	:	FRP
CHEMICAL QUANTITY	:	
1. ALUM	:	200 GMS. / HR.
2. SODIUM HYPO CHLORITE	:	200 GMS. / HR. (5 liter liquid)
CHEMICAL CONCENTRATION	:	5 %
CHEMICAL DOSING RATE	:	Dozing rate shall be min. 4 LPH for Alum & Chlorine

### TECHNICAL DATA FOR IRON MEDIA FILTER – 1 NUMBER

<b>PLANT NAME</b>	: IRON REMOVAL PRESSURE FILTER
<b>PLANT MODEL/MAKE</b>	: ENVIROX - 2000 IRF (Envirotech Utility)
<b>PLANT TYPE</b>	: Down-Flow Type
<b>PLANT DIMENSIONS</b>	:
Diameter	: 2000 mm
Height	: 2000 mm
Thickness of shell	: 6 mm
Thickness of dished ends	: 8 mm
<b>PLANT M.O.C.</b>	: M.S. Rubber Lined
<b>PIPE LINE SIZE</b>	: 100 mm
<b>VALVES SIZE</b>	: 100 mm
<b>FLOW RATE</b>	:
Maximum [at 25 NTU turbidity]	: 40.0 cum/hr.
Minimum	: 08.0 cum/hr.
Average	: 30.0 cum/hr.
<b>PRESSURE RATING</b>	:
Maximum working pressure	: 3.5 kg./sq.cm
Minimum working pressure	: 1.5 kg./sq.cm
Vessel design pressure	: 4.0 kg./sq.cm
Vessel test pressure	: 6.0 kg./sq.cm
<b>PRESSURE DROP</b>	:
During normal working	: 0.2 kg./sq.cm
During chocking	: 0.5 kg./sq.cm
During Backwashing	: 0.3 kg./sq.cm
<b>BACK WASH</b>	:
Flow rate	: 75.0 cum/hr.
Time	: 10 min
Head	: 10 m
Washing required	: Depending upon pressure drop
Washing periodical	: Depending upon pressure drop
<b>FINAL WASH</b>	:
Flow rate	: 30.0 cum/hr.
Time	: 5 min
Head required	: 15 m
<b>FILTER MEDIA</b>	:
Pebbles 1 x 11/2"	: River bed gravels, Coarse & MnO <sub>2</sub> / IRF Media
Pebbles 1" x 3/4 "	: 2200 kg.
Gravels 1/2" x 3/8"	: 1200 kg.
Coarse silex (4/8)	: 1200 kg.
MnO <sub>2</sub>	: 200 kg.
IRF MZ-10	: 1300 kg.
	: 1000 kg.

### TECHNICAL DATA FOR DUAL MEDIA FILTER – 1 NUMBER

<b>PLANT NAME</b>	: DUAL MEDIA PRESSURE FILTER
<b>PLANT MODEL/MAKE</b>	: ENVIROX - 2000 DMF (Envirotech Utility)
<b>PLANT TYPE</b>	: Down-Flow Type
<b>PLANT DIMENSIONS</b>	:
Diameter	: 2000 mm
Height	: 2000 mm
Thickness of shell	: 6 mm
Thickness of dished ends	: 8 mm
<b>PLANT M.O.C.</b>	: M.S. Rubber Lined
<b>PIPE LINE SIZE</b>	: 100 mm
<b>VALVES SIZE</b>	: 100 mm
<b>FLOW RATE</b>	
Maximum [at 25 NTU turbidity]	: 40.0 cum/hr.
Minimum	: 08.0 cum/hr.
Average	: 30.0 cum/hr.
<b>PRESSURE RATING</b>	
Maximum working pressure	: 3.5 kg./sq.cm
Minimum working pressure	: 1.5 kg./sq.cm
Vessel design pressure	: 4.0 kg./sq.cm
Vessel test pressure	: 6.0 kg./sq.cm
<b>PRESSURE DROP</b>	
During normal working	: 0.2 kg./sq.cm
During chocking	: 0.5 kg./sq.cm
During Backwashing	: 0.3 kg./sq.cm
<b>BACK WASH</b>	
Flow rate	: 75.0 cum/hr.
Time	: 10 min
Head	: 10 m
Washing required	: Depending upon pressure drop
Washing periodical	: Depending upon pressure drop
<b>FINAL WASH</b>	
Flow rate	: 30.0 cum/hr.
Time	: 5 min
Head required	: 15 m
<b>FILTER MEDIA</b>	: River bed gravels, Coarse & MnO <sub>2</sub> / IRF Media
Pebbles 1 x 11/2"	: 2200 kg.
Pebbles 1" x 3/4 "	: 1200 kg.
Gravels 1/2" x 3/8"	: 1200 kg.
Coarse silex (4/8)	: 200 kg.
Quartz Silica sand	: 2500 kg.
Anthracite Coal	: 1200 kg.

### TECHNICAL DATA FOR ACTIVATED CARBON FILTER – 1 NUMBER

<b>PLANT NAME</b>	: ACTIVATED CARBON FILTER
<b>PLANT MODEL/MAKE</b>	: ENVIROX - 2000 ACF (Envirotech Utility)
<b>PLANT TYPE</b>	: Down-Flow Type
<b>PLANT DIMENSIONS</b>	:
Diameter	: 2000 mm
Height	: 2000 mm
Thickness of shell	: 6 mm
Thickness of dished ends	: 8 mm
<b>PLANT M.O.C.</b>	: M.S. Rubber Lined
<b>PIPE LINE SIZE</b>	: 100 mm
<b>VALVES SIZE</b>	: 100 mm
<b>FLOW RATE</b>	
Maximum [at 25 NTU turbidity]	: 40.0 cum/hr.
Minimum	: 08.0 cum/hr.
Average	: 30.0 cum/hr.
<b>PRESSURE RATING</b>	
Maximum working pressure	: 3.5 kg./sq.cm
Minimum working pressure	: 1.5 kg./sq.cm
Vessel design pressure	: 4.0 kg./sq.cm
Vessel test pressure	: 6.0 kg./sq.cm
<b>PRESSURE DROP</b>	
During normal working	: 0.2 kg./sq.cm
During chocking	: 0.5 kg./sq.cm
During Backwashing	: 0.3 kg./sq.cm
<b>BACK WASH</b>	
Flow rate	: 36.0 cum/hr.
Time	: 10 min
Head	: 10 m
Washing required	: Depending upon pressure drop
Washing periodical	: Depending upon pressure drop
<b>FINAL WASH</b>	
Flow rate	: 30.0 cum/hr.
Time	: 5 min
Head required	: 15 m
<b>FILTER MEDIA</b>	: River bed gravels, Coarse & MnO <sub>2</sub> / IRF Media
Pebbles 1 x 11/2"	: 2200 kg.
Pebbles 1" x 3/4 "	: 1200 kg.
Gravels 1/2" x 3/8"	: 1200 kg.
Coarse silex (4/8)	: 200 kg.
Coco Granular Activated Carbon 1000 IV.	: 1500 kg.

**PROCESS DETAIL & DESIGN CRITERIA FOR EFFLUENT TREATMENT PLANT  
HAVING DISCHARGE CAPACITY 5000 LITERS PER DAY**

**1.0 DESIGN PARAMETERS: GENERAL INFORMATION**

Location	:	NID, JORHAT
Type of Effluent	:	Waste Water From Dying Section
Plant Capacity	:	5 cu.m./day.
Name of Institute	:	National Institute of Design

**A. RAW EFFLUENT QUALITY AND OTHER DESIGN CRITERIA**

Items	Unit	Values
Design Flow	m3/Day	5 KLD
pH		8.5-9.5
BOD	mg/l	150-300
COD	mg/l	400-600
Suspended Solids	mg/l	200-300

**B. DISCHARGE EFFLUENT CHARACTERSTICS AFTER TREATMENT**

Items	Unit	Values
pH	-	6.0-8.5
BOD	mg/l	Less than 30
COD	mg/l	Less than 250
Suspended Solids	mg/l	Less than 100
Oil and Grease	mg/l	Less than 10

खंड- 6  
वित्तीय बोली  
Section- 6  
Financial Bid  
**NIDJ/2025-26/ESTATE/NIT/1059**

**Annual Maintenance Service for Water Treatment Plant, Effluent Treatment Plant & Pumping System at NID, Assam.**

**BILL OF QUANTITY (BOQ) AND PRICE BID SCHEDULE**

Sl. No.	Item description	Rate / Year in Figures to be entered by the Bidder in Rs.	Total Amount in Rs.	Total Amount in words
1	<b>Annual Maintenance Service of Water Treatment Plant, Effluent Treatment Plant &amp; Pumping System" at NID, Assam as per Scope of Work, General Condition of Contract &amp; Special Condition of Contract mentioned in NIT</b>			
<b>GST rate</b>				
<b>GST Amount</b>				
<b>Total Including GST</b>				

Amount in words Including GST

(Rs.....  
.....)

(Signature of the bidder with seal)