

**Executive Engineer**  
**DTU, Bawana Road**  
**Delhi-110042**

**Name of work:** C/o Sewerage Treatment Plant & Waste to Energy Plant at DTU, Bawana, Road, Delhi. (S.H. – Designing, Supply, Erection & Installation, Commissioning & there to operation & maintenance for 15 years of 1 M.L.D. STP based on Bio filter & 1 TPD Waste to Energy Plant)

**INDEX**

<b>S. No.</b>	<b>DESCRIPTION</b>	<b>PAGES</b>
1)	Index	<b>01</b>
2)	Press Notice	<b>02</b>
3)	Information and Instructions for Bidders for e-Tendering Forming Part of Bid Document.	<b>03-04</b>
4)	CPWD-6 for e-Tendering	<b>05-07</b>
5)	Form for Earnest Money (Bank Guarantee)	<b>08</b>
6)	Receipt of deposition of Original EMD	<b>09</b>
7)	Performance Guarantee	<b>10-11</b>
8)	Integrity Pact / Integrity Agreement	<b>12-18</b>
9)	CPWD-8	<b>19-20</b>
10)	Acceptance	<b>21</b>
11)	Schedule A to F	<b>22-25</b>
12)	Special Conditions	<b>26-29</b>
13)	Technical Condition	<b>30-31</b>
14)	Tender and Condition for Operation & Maintenance of SPT & Waste to Energy Plant	<b>32-33</b>
15)	Schedule of Quantity	<b>34</b>

**Executive Engineer**  
DTU, Bawana Road  
Delhi-110042

**PRESS NOTICE**  
**Delhi Technological University**  
**NOTICE INVITING e-TENDER (Re-Invite)**

The Executive Engineer, DTU, Bawana Road, Delhi on behalf of the Delhi Technological University re-invites online Item rate bids from specialized agencies in the respective field for the following work:

**NIT No. DTU/Engg.Cell/2017-18/07**

**Name of work: - C/o Sewerage Treatment Plant & Waste to Energy Plant at DTU, Bawana, Road, Delhi. (S.H. – Designing, Supply, Erection & Installation, Commissioning & there to operation & maintenance for 15 years of 1 M.L.D. STP based on Bio filter & 1 TPD Waste to Energy Plant)**

**Estimated Cost: Rs. 2,40,00,000/-**

**Earnest Money: Rs. 4,80,000/-**

**Period of completion: 9 Months**

Last time and date of submission of online bid **05-03-2018 up to 3.00 PM.**

The tender forms and other details can be obtained from the website:  
**<https://govtprocurement.delhi.gov.in>**

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**Executive Engineer**  
DTU, Bawana Road  
Delhi-110042

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING PART OF BID DOCUMENT.**

The Executive Engineer, DTU, Bawana Road, Delhi on behalf of the Delhi Technological University re-invites **online Item rate** bids from specialized agencies in the respective field for the following work:

S. No.	NIT No.	Name of work & Location	Estimated Cost put to bid	Earnest Money	Period of Completion	Last date and time of submission of bid on line	Opening of Financial Bids of technically qualified bidders
1	2	3	4	5	6	7	8
1	DTU/Engg.Cell/2017-18/07	C/o Sewerage Treatment Plant & Waste to Energy Plant at DTU, Bawana, Road, Delhi. (S.H. - Designing, Supply, Erection & Installation, Commissioning & there to operation & maintenance for 15 years of 1 M.L.D. STP based on Bio filter & 1 TPD Waste to Energy Plant)	Rs. 2,40,00,00/-	Rs. 4,80,000/-	9 Months	Up to 3:00 PM on 05-03-2018	At 3:30 pm on 05-03-2018

1. 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.
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. 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 and downloaded from website <http://govtproucurement.delhi.gov.in> free of cost.
4. The intending bidder must have valid class and above digital signature to submit the bid.
5. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the comparative bid sheets.
6. Contractor can upload documents in the form of **PDF** format.

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

1. EMD shall be in form of Demand Draft/Pay order or Banker`s Cheque/FDR of any Scheduled Bank are acceptable.
2. Certificate of Registration for GST registration or acknowledgement receipt of GST registration.
3. Scanned copy of self attested PAN number.
4. Companies/Firms may be lead individual or through J.V. (Joint Venture). One member will be the lead partner who will be dealing with the DTU.
5. Eligibility criteria mentioned below :-  
The agency should have experience of having successfully completed works in Central Govt. / State Govt. / PSU departments during last seven years ending previous day last date of submission of tenders.

Three similar completed works costing not less than the amount equal to 40% of estimated cost put to tender.

Or

Two similar completed works costing not less than the amount equal to 60% of estimated cost put to tender.

Or

One similar completed work costing not less than the amount equal to 80% of estimated cost put to tender.

**GOVT. OF DELHI**  
**Delhi Technological University**  
**NOTICE INVITING TENDER (Re-Invite)**

Item rate bids are re-invited on behalf of Delhi Technological University from specialized agencies in the respective field for the following work: - **C/o Sewerage Treatment Plant & Waste to Energy Plant at DTU, Bawana, Road, Delhi. (S.H. – Designing, Supply, Erection & Installation, Commissioning & there to operation & maintenance for 15 years of 1 M.L.D. STP based on Bio filter & 1 TPD Waste to Energy Plant)**

1. The work is estimated to cost **Rs. 2,40,00,000/-** This estimate, however, is given merely as a rough guide.
2. Agreement shall be drawn with the successful bidders on prescribed **Form No. CPWD 8** 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. An integrity pact shall be signed by the successful bidders and it shall be part of the agreement.
4. The time allowed for carrying out the work will be **9 Months** 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.
5. The site for the work is available.
6. The bid document consisting of, 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://govtprocurement.delhi.gov.in>** free of cost.
7. Earnest Money in the form of Demand Draft or Bank Guarantee or Banker's Cheque or Fixed Deposit Receipt (**drawn in favour of Registrar, DTU, Delhi.**) shall be scanned and uploaded to the e-Tendering website within the period of bid submission.

**The original EMD should be deposited with original documents in the office of Executive Engineer, DTU inviting bids within the period of bid submission.**

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 of any scheduled bank having validity for six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

**The required documents as specified in bid documents shall be scanned and uploaded on the e-Tendering website within the period of bid submission. However, the hard copy of the uploaded documents as specified in bid documents shall have to be submitted by all bidders in Engineering Cell, DTU.**

The bid submitted shall be opened at **03:30 PM** on **05-03-2018**

8. The bid submitted shall become invalid, if:
  - (i) The bidders are found ineligible.
  - (ii) The bidder does not deposit Original EMD with original documents at Engineering Cell, E.E. (DTU). The EMD receipt shall only be issued from the place in which the office of receiving Division office is situated.
  - (iii) The bidder does not upload all the documents as stipulated in the bid documents including the copy of receipt for the deposition of original EMD.
  - (iv) If a tenderer quotes nil rates against any item in item rate tender, the tender shall be treated as invalid and will not be considered as lowest bidder.
  - (v) 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 tender opening authority.
9. The contractor whose bid is accepted will be required to furnish performance guarantee of 5% (Five Percent) of the bid amount within the period specified in Schedule-'F'. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India 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 Contractor whose bid is accepted will also be required to furnish either copy of applicable licenses registration or proof of applying for obtaining labour licenses registration with EPFO/ESIC/BOCW welfare board **including provident fund code No. if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work** and program chart (Time and progress) with the period specified in Schedule 'F'.
10. Intending Bidders are advised to inspect the site and its surroundings and satisfy themselves before submitting their bids 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 bidders 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 bidders 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 local conditions and other factors having a bearing on the execution of the work.

11. The competent authority on behalf of Delhi Technological University 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.
12. 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.
13. The competent authority on behalf of Delhi Technological University 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.
14. 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.
15. The bid for the works shall remain open for acceptance for a period of **90 days** from the date of opening of financial bid. If any bidders withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further, the bidders shall not be allowed to participate in the rebidding process of the work
16. This notice inviting Bid shall form a part of the contract document. The successful bidders/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 8.**

**Form of Earnest Money Deposit (Bank Guarantee Bond)**

WHEREAS, contractor..... (Name of contractor) (Hereinafter called "the contractor") has submitted his tender dated..... (date) for the construction of ..... (name of work) (Hereinafter called "the Tender")

KNOW ALL PEOPLE by these presents that we..... Registered office at..... (Hereinafter called "the Bank") are bound unto **Executive Engineer, DTU, Bawana road, Delhi** in the sum of Rs. for which payment well and truly to be made to the said **Executive Engineer, DTU, Bawana road, Delhi** the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this..... Day of ..... 20.... THE CONDITIONS of this obligation are:

- (1) If after Technical Bid opening of tender; the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;
  
- (2) If the contractor having been notified of the acceptance of his tender by **Executive Engineer, DTU, Bawana road, Delhi**
  - (a) Fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required;  

**OR**
  - (b) Fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,  

**OR**
  - (c) Fails or refuses to start the work, in accordance with the provisions of the contract and Instructions to contractor,  

**OR**
  - (d) fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the **Executive Engineer, DTU, Bawana road, Delhi** either up to the above amount or part thereof upon receipt of his first written demand, without **Executive Engineer, DTU, Bawana road, Delhi** having to substantiate his demand, provided that in his demand The **Executive Engineer, DTU, Bawana road, Delhi** will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date 6 months after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by **Executive Engineer, DTU, Bawana road, and Delhi notice of which extension** to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE .....

SIGNATURE OF THE BANK

WITNESS .....

SEAL

(SIGNATURE, NAME AND ADDRESS).

\*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.



# Receipt of Deposition of Original EMD

(Receipt No. ....\*\* ..... /Date .....\*\* .....)

- 1.) Name of Work : **C/o Sewerage Treatment Plant & Waste to Energy Plant at DTU, Bawana, Road, Delhi. (S.H. – Designing, Supply, Erection & Installation, Commissioning & there to operation & maintenance for 15 years of 1 M.L.D. STP based on Bio filter & 1 TPD Waste to Energy Plant)**
- 2.) NIT No. : **DTU/Engg.Cell/2017-18/07**
- 3.) Estimated Cost : **Rs. 2,40,00,000/-**
- 4.) Amount of Earnest Money Deposit **Rs. 4,80,000/-**
- 5.) Last date of submission of bid dt. **05-03-2018 at 15.00 Hrs.**

**Executive Engineer**  
DTU, Delhi-110042

- 1.) Name of Contractor .....\*\* .....
- 2.) Form of EMD .....\*\* .....
- 3.) Amount of Earnest Money Deposit .....\*\* .....
- 4.) Date of submission of EMD.....\*\* .....

**Signature, Name and Designation of EMD  
receiving Officer alongwith Office Stamp**

**\*\* to be filled by EE.**

## PERFORMANCE GUARANTEE

- (i)** The contractor shall submit an irrevocable Performance Guarantee of 5% (Five percent) of the tendered amount in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge up to a maximum period as specified in schedule 'F' on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the Engineer-in-Charge. This guarantee shall be in the form of Cash (in case guarantee amount is less than Rs. 10,000/-) or Deposit at Call receipt of any scheduled bank/Banker's Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay Order of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to the Government as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Government to make good the deficit.
- (ii)** The Performance Guarantee shall be initially valid up to the stipulated date of completion plus 90 Days beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest.
- (iii)** The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the Delhi Technological University is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:

  - (a)** Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.
  - (b)** Failure by the contractor to pay Delhi Technological University any amount due, either as agreed by the contractor or determined under any

of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer-in-Charge.

- (iv)** In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Delhi Technological University.

## INTEGRITY PACT

To,

.....\*\*.....,  
.....\*\*.....,  
.....\*\*.....

Sub: NIT No. **DTU/Engg.Cell/2017-18/07** for the work **C/o Sewerage Treatment Plant & Waste to Energy Plant at DTU, Bawana, Road, Delhi. (S.H. – Designing, Supply, Erection & Installation, Commissioning & there to operation & maintenance for 15 years of 1 M.L.D. STP based on Bio filter & 1 TPD Waste to Energy Plant)**

Dear Sir,

It is here by declared that DTU is committed to follow the principle of transparency, equity and competitiveness in public procurement.

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

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the DTU.

Yours faithfully

**Executive Engineer**

**\*\* To be filled by EE**

## INTEGRITY PACT

To,

**The Executive Engineer**

DTU, Bawana Road

Delhi-110042

**Sub:** Submission of Tender for the work of **C/o Sewerage Treatment Plant & Waste to Energy Plant at DTU, Bawana, Road, Delhi. (S.H. – Designing, Supply, Erection & Installation, Commissioning & there to operation & maintenance for 15 years of 1 M.L.D. STP based on Bio filter & 1 TPD Waste to Energy Plant)**

Dear Sir,

I/We acknowledge that DTU is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is a re-invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by DTU. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, DTU shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

**To be signed by the bidder and same signatory competent / authorised to  
sign the relevant contract on behalf of DTU.**  
**INTEGRITY AGREEMENT**

This Integrity Agreement is made at .....\*\*..... on this ....\*\*..... day of  
...\*\*.....  
20..\*\*....

**BETWEEN**

Delhi Technological University represented through **The Executive Engineer, DTU** (Hereinafter referred as the '**Principal/Owner**', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**AND**

.....\*\*.....  
(Name and Address of the Individual/firm/Company)  
through .....\*\*..... (Hereinafter referred to as the  
(Details of duly authorized signatory)  
**"Bidder/Bidder"** and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**Preamble**

WHEREAS the Principal/Owner has floated the Tender (NIT No. **DTU/Engg.Cell/2017-18/07**) (hereinafter referred to as "**Tender/Bid**") and intends to award, under laid down organizational procedure, contract for

**C/o Sewerage Treatment Plant & Waste to Energy Plant at DTU, Bawana, Road, Delhi. (S.H. – Designing, Supply, Erection & Installation, Commissioning & there to operation & maintenance for 15 years of 1 M.L.D. STP based on Bio filter & 1 TPD Waste to Energy Plant)**

Hereinafter referred to as the "**Contract**".

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Bidder(s). AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "**Integrity Pact**" or "**Pact**"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

**\*\* To be filled by EE**

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

**Article 1: Commitment of the Principal/Owner**

1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:

- (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
- (c) The Principal/Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

**Article 2: Commitment of the Bidder(s)/Bidder(s)**

1) It is required that each Bidder/Bidder (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.

2) The Bidder(s)/Bidder(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:

a) The Bidder(s)/Bidder(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.

b) The Bidder(s)/Bidder(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

c) The Bidder(s)/Bidder(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contract(s) will not use improperly, (for the purpose

of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

- d) The Bidder(s)/Bidder(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Bidder(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
- e) The Bidder(s)/Bidder(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Bidder(s)/Bidder(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 4) The Bidder(s)/Bidder(s) will not, directly or through any other person or firm indulge in fraudulent practice means a wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
- 5) The Bidder(s)/Bidder(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

### **Article 3: Consequences of Breach**

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Bidder(s) and the Bidder/ Bidder accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

- 1) If the Bidder(s)/Bidder(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days notice to the bidder shall have powers to disqualify the Bidder(s)/Bidder(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Bidder from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and



determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.

- 2) **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Bidder.
- 3) **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Bidder, or of an employee or a representative or an associate of a Bidder or Bidder which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

#### **Article 4: Previous Transgression**

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Bidder as deemed fit by the Principal/ Owner.
- 3) If the Bidder/Bidder can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

#### **Article 5: Equal Treatment of all Bidders/Bidders/Sub bidders**

- 1) The Bidder(s)/Bidder(s) undertake(s) to demand from all sub bidders a commitment in conformity with this Integrity Pact. The Bidder/Bidder shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub bidders/ sub-vendors.
- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Bidders.
- 3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

#### **Article 6- Duration of the Pact**

This Pact begins when both the parties have legally signed it. It expires for the Bidder/Vendor 3 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other

bidder, till the Contract has been awarded. If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, CPWD.

**Article 7- Other Provisions**

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Head quarters of the Division of the Principal/Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) If the Bidder is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact.

**Article 8- LEGAL AND PRIOR RIGHTS**

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

..... \*\* .....  
(For and on behalf of Principal/Owner)

..... \*\* .....  
(For and on behalf of Bidder/Bidder)

WITNESSES:

1. .... \*\* .....  
(Signature, name and address)

2. .... \*\* .....  
(Signature, name and address)

Place:

Dated:

**\*\* To be filled by EE**

**GOVERNMENT OF INDIA  
PUBLIC WORKS DEPARTMENT**

STATE: Delhi

Department: Engineering Cell

**Item Rate Tender & Contract for Works**

Tender for the work of: - **C/o Sewerage Treatment Plant & Waste to Energy Plant at DTU, Bawana, Road, Delhi. (S.H. – Designing, Supply, Erection & Installation, Commissioning & there to operation & maintenance for 15 years of 1 M.L.D. STP based on Bio filter & 1 TPD Waste to Energy Plant)**

- (i) To be submitted **online** by **15:00 hours on 05-03-2018** to **Executive Engineer, DTU, Delhi-42.**
- (ii) To be opened **online** in presence of tenderers who may be present at **15:30** hours on **05-03-2018** in the office of **Executive Engineer, DTU, Delhi.**

**T E N D E R**

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 Delhi Technological University within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings 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 respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for **90 days from the date of opening of financial bid** and not to make any modifications in its terms & conditions.

A sum of **Rs. 4,80,000/-** is hereby forwarded in Receipt Treasury Challan / Deposit at call Receipt of a Scheduled Bank / fixed Deposit receipt of scheduled Bank/ Demand draft of a scheduled Bank, / Bank guarantee issued by a scheduled bank as earnest money. If I/We fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said Delhi Technological University 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 Delhi Technological University or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, upto maximum of the percentage mentioned in Schedule 'F' and 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.

Further, I/We agree that in case of forfeiture of Earnest Money or both Earnest Money and performance guarantee as aforesaid, I / We shall be debarred for participation in the re-tendering process of the work.

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 therefrom 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 of the state.

Dated .....\*\* .....

Signature of the Contractor

Postal Address -----\*\*-----

Telephone No.-----\*\*-----

Witness:-----\*\*-----

FAX -----\*\*-----

Address:-----\*\*-----

E-MAIL -----\*\*-----

Occupation:-----\*\*-----

**\*\* To be filled by Contractor**

**ACCEPTANCE**

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the Delhi Technological University for a sum of Rs. \_\_\_\_\_\*\* \_\_\_\_\_ (Rupees \_\_\_\_\_\*\* \_\_\_\_\_  
\_\_\_\_\_\*\* \_\_\_\_\_ )

The letters referred to below shall form part of this contract Agreement:-

- (a) -----\*\*
- (b) -----\*\*
- (c) -----\*\*

For & on behalf of the Delhi Technological University

Dated .....\*\*.....

Signature.....\*\*.....

Designation.....\*\*.....

**\*\* to be filled by EE.**

## SCHEDULES

### SCHEDULE 'A'

Schedule of quantities, enclosed on separate sheets from **page no. 34**

### 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'

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 / documents for the work, if any.

- NIL -

### SCHEDULE 'E'

Reference to General Conditions of contract: - **General Conditions of Contract for CPWD works-2014 read along with correction slips/amendments issued up to last date of submission of Tender i/c extension if any issued from the office of D.G., CPWD and can be downloaded from [www.CPWD.gov.in](http://www.CPWD.gov.in)**

#### Name of work:

**C/o Sewerage Treatment Plant & Waste to Energy Plant at DTU, Bawana, Road, Delhi. (S.H. – Designing, Supply, Erection & Installation, Commissioning & there to operation & maintenance for 15 years of 1 M.L.D. STP based on Bio filter & 1 TPD Waste to Energy Plant)**

Estimated cost of work:-

**Rs. 2,40,00,000/-**

(i) Earnest money:-

**Rs. 4,80,000/-**

(ii) Performance Guarantee:-

**5% of tendered Value.**

(iii) Security deposit :-

**2.5% of tendered Value.**

## **SCHEDULE 'F'**

General Rules & Directions: -  
Officer inviting tender:

**Executive Engineer, DTU, Delhi**

### **Definitions:**

2 (v)	Engineer-in-Charge	<b>Executive Engineer, DTU, Delhi or his successor thereof.</b>
2 (viii)	Accepting Authority	<b>Hon'ble V.C. DTU</b>
2 (x)	Percentage on cost of materials and labour to cover all overheads and profits.	<b>15%</b>
2 (xi)	Standard schedule of Rates	<b>Market Rates</b>
2 (xii)	Department	<b>DTU</b>
9 (ii)	Standard CPWD contract form	<b>CPWD form 8 &amp; GCC-2014 read along with correction slips/ amendments issued up to last date of submission of Tender i/c extension if any issued from the office of D.G., CPWD and can be downloaded from <a href="http://www.CPWD.gov.in">www.CPWD.gov.in</a></b>

### **Clause 1**

(i)	Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance.	<b>5 days</b>
(ii)	Maximum allowable extension	<b>3 days with late fee @ 0.1% per day of Performance Guarantee amount.</b>

### **Clause 2**

Authority for fixing compensation under clause 2.

**Hon'ble V.C. DTU**

### **Clause 2A**

Whether Clause 2A shall be applicable

No

### **Clause 5**

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

5 days

Schedule Item No.	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be with-held in case of non achievement of milestone
1	As detailed below	2 Months	1% of tendered value
2	As detailed below	4 Months	1% of tendered value
3	As detailed below	6 Months	1% of tendered value
4	As detailed below	9 Months	1% of tendered value

Time allowed for execution of work

9 Months

Authority to decide:

1. Extension of time

**Hon'ble V.C. DTU**

2. Rescheduling of mile stones

**Hon'ble V.C. DTU**

Clause 6, 6A

Clause applicable – (6 or 6A)

**6A (Computerized measurement book to be submitted by Agency)**

**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. 25 lakh.**

**Clause 7 A**

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

**Not Applicable**

**Clause 10A**

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

**Not Applicable**

**Clause 10 – B (ii)**

Whether clause 10-B(ii) shall be applicable

**Not Applicable**

**Clause 10C -**

**Not Applicable**



**Clause 10 CA**

**Not Applicable**

**Clause 10CC**

**Not Applicable**

**Clause 11** Specifications to be followed for execution of work.

**Detailed nomenclature of items, specifications and conditions as per bid documents.**

<b>Clause 12</b>	<b>Type of Work</b>	<b>Original Work</b>
	Deviation limit beyond which clauses 12.2 & 12.3 shall apply.	30% After approval of Hon'ble V.C.

**Clause 16**

**Hon'ble V.C.**

Competent Authority for deciding reduced rates.

**Clause 18**

List of mandatory machinery, tools & plants to be deployed by the contractor at site.

**As per requirement of work to execute in stipulated time as per direction of Engineer-in-Charge.**

**Clause 25**

**Constitution of dispute redressal committee :**

**Chairman :**

**Member :**

**Member :**

**a) For total claims upto or more then Rs. 25.00 Lakh**

Hon'ble V.C.

Pro V.C-1

Registrar, Executive Engineer

**Note: The above constitution of dispute redressal committee is subject to change, for which necessary notification shall be issued by the competent authority of the department, if required.**

**Clause 36 Modified provision**

**Requirement of Technical Representative(s) and Recovery Rate.**

SL No	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical /Technical representative)	Minimum experience	Number	Rate at which recovery shall be made per month from to contractor in the event of not fulfilling provision of clause 36(I)	
						Figures	Words
1	Site Engineer	Civil	Graduate Engineer	5 Years	One	Rs. 50,000/-	Rupees Fifty Thousand Only

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

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.

## **SPECIAL CONDITIONS**

1. The contractors are advised to get acquainted with the proposed work and its site and also study the Architectural Drawings, specifications and special conditions carefully before tendering. No claim of any sort shall be entertained on account of any site conditions and ignorance of specifications and special conditions.
2. The work shall be carried out as specified in the nomenclature of individual item, specifications and conditions mentioned in bid documents.
3. The payment for Deviated quantities beyond the limit specified under clause 12 in Schedule F shall be paid as per clause 12.
4. The rates quoted by the contractor shall be taken as net and nothing extra shall be paid on any account i.e. royalty, cartage, GST and stacking at required places etc.
5. The rates for different items of work shall apply for all heights and depths, leads and lifts unless otherwise specified in the agreement or specifications applicable to the agreement.
6. Any damage done by the contractor to any existing work during the course of execution of the work shall be made good by him at his own cost.
7. Articles manufactured by the reputed firms and approved by Engineer-in-Charge shall only be used. Only articles classified, as 'first quality' by the approved manufacturer shall be used unless otherwise specified. In case articles bearing ISI certification are not available in the market, quality of samples brought by the contractor shall be judged by standards laid down in the relevant CPWD specifications. For the items not covered by CPWD specifications relevant BIS standards shall apply.

The sample of materials to be brought to site for use in work shall be got approved from the Engineer-in-Charge before actual execution of work.

8. The contractor shall submit a detailed programme of work within 15 days of the date of issue of letter of award. Detailed program should include all the mile stones, cash flow, material procurement, manpower deployment etc for successful completion of work within the stipulated time of completion. Program must show clearly the critical path to complete the project in time. The Engineer-in-Charge can modify the program and the contractor shall have to work accordingly. During review of work progress, Engineer in Charge can ask to modify the programme. Contractor shall resubmit the modified program in 2 days.
9. The quantities of each item shall not be exceeded beyond the agreement quantities without prior permission of Engineer-in-Charge.
10. Statutory deductions on account of GST, income tax and surcharge etc. as applicable shall be made from the gross amount of the bill.
11. The contractor shall make his own arrangements for obtaining electric connection, if required and make necessary payments directly to the department concerned.

12. No payment shall be made to the contractor for any damage caused by rain, snow fall, floods or any other natural causes whatsoever during the execution of work. The damage caused to work shall have to be made good by the contractor at his own cost and no claim on this account shall be entertained.
13. Some restrictions may be imposed by the security staff etc. on the working and or movement of labour and materials, etc, the contractor shall be bound to follow all such restrictions / instructions and nothing shall be payable on this account.
14. The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of the work by storing materials on the road.
15. The contractor shall be fully responsible for the safe custody of the material issued or brought by him to site for doing the work.
16. The rate for all items of work, shall unless otherwise clearly specified include cost of all labour, material, GST and other inputs involved in the execution of the items.
17. The order of preference in case of any discrepancy as indicated in condition no. 8.1 under "Conditions of Contract" given in the **General Conditions of Contract for Central P.W.D work 2014 read along with correction slips/amendments issued upto last date of submission of Tender i/c extension if any** form may be read as the following.
  - a. Description of Schedule of quantities.
  - b. Special conditions,
  - c. Contract clauses of **General Conditions of Contract for Central P.W.D works 2014 (read along with correction slips/amendments issued upto last date of submission of Tender i/c extension if any)** form.
  - d. CPWD Specifications.
  - e. Relevant BIS Codes
  - f. Architectural drawings.
  - g. Manufacturers specification
  - h. Sound engineering practice.
18. Any reference made to any Indian Standard Specifications in these documents, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian Standards applicable to the work at site.
19. The contractor shall make his own arrangement of water for construction and drinking purpose as well for electricity and its distribution at his own cost. The department will render only assistance to the contractor for making application to DJB/ authorized Electric supply agency, if required. All the fees and charges including consumption charges shall be borne by the contractor.
20. The labour welfare cess @ 1% of gross work done shall be deducted.
21. No labour hutment/ jhuggis shall be allowed at site. Contractor should make all arrangement of transportation of labourers to & from the site. Nothing extra shall be paid to contractor on this account.
22. No extra payments shall be made for supplying and fixing of material at any height and lead.

23. On satisfactory completion of all the works as per the provision of the Contract, the Contractor shall hand over the works to the University authorities through DTU. The Contractor shall maintain sufficient staff and materials till the handing over of the works to the University authorities to protect the works and its installation from theft/damage from outside agencies.  
All installations shall be neatly cleaned and of approved brand and make; set of keys along with key ring shall be handed over to the client. Nothing extra shall be payable on this account.
24. All hardware items shall be first quality from reputed approved manufacturers and shall be got approved from Engineer-in-charge before actual execution.
25. Open plan office arrangement (OPEA) shall comprise of basic elements/modules/units the partition, work surfaces, storage units, accessories, fixtures and fittings etc. arranged in desired configurations for office purpose.. The system shall offer flexibility to make subsequent changes/modifications and shall have in-built wire management system separately for electrical, computer data networking and telephone cables.
26. The complete system shall have facility to remove element/module/unit individually without affecting adjoining element / module/ unit for maintenance/ replacement purpose for subsequent changes.
35. All hardware components like clamps/ nut / bolts/ washers, screws, gaskets, fitting and fixture, brackets, roller/ guide/ slide, castors, hardware etc. as may be required or are forming integral part of the system/ basic elements / modules/ units for construction/ installation shall meet the relevant structural specifications and other requirements and shall be provided without any extra cost to the department.
36. All wood / wood based material shall be given appropriate anti-termite and fire retardant treatment. All the exposed surfaces of all the Aluminum/ MS sections / covers etc. shall be powder coated with 50 micron thick in desired shade.
37. All the materials used for the works shall meet relevant BIS or other applicable standards (latest revision). All Block board shall be of Grade-1 having lamination of approved colour on exposed face and balancing lamination on the unexposed face.
38. All basic elements / modules / units shall be machine made in factory and only assembly/ erection/ installation shall be done at site. The manufacturing factory shall be fully equipped with adequate machinery for achieving desired quality of workmanship as well as timely supplied. Engineer-in-charge shall, if required, inspect the factory during the manufacturing process and the contractors shall make all necessary arrangements for inspection of the team of Engineer-in-charge .
39. All the materials brought to site shall be protected suitably, duly wrapped / packed and stored so as to avoid any damage during loading/ transportation/ unloading/ handling / installation/ erection or due to weather conditions etc. at any stage.
40. **The bidder has to give an undertaking that all items supplied by him are strictly as per specification of the agreement.**

41. The contractor shall produce all the materials well in advance so that there is sufficient time for testing of the materials and clearance of the same before incorporation in the work.
42. The contractor shall produce on demand from Engineer-in-charge, the approved manufacturers' certificates certifying that the materials conform to the technical specifications. For other materials which are ISI/ BIS marked, approved manufacturer's certificate shall be considered as fulfilling the mandatory test requirement. However in case Engineer-in-charge feels that the material supplied is not of required specifications even if it is ISI/BIS approved and have approved manufacturers certificate, he can send the sample to the approved lab for testing.
43. For any tests as directed by the Engineer-in-charge, that have to be carried out at an outside laboratory, the cost of materials, transport etc., shall be borne by the contractor.
44. The necessary tests shall be carried out on the items supplied and testing charges i/c transportation i/c packing etc. to Lab. shall be borne by the Agency The samples shall be provided by the Agency free of cost. The testing shall be carried out in any Govt. Lab./Public Undertaking Lab./IIT or NIT Lab./Government Engineering University or any other lab as approved by Engineer-in-charge.
45. The contractor shall arrange for conducting the tests in the presence of an officer, authorized by the Engineer-in-Charge. Full records of all the tests conducted shall be maintained by the contractor in the format given by Engineer-in-Charge which will be made available to the Engineer-in-Charge or to any officer authorized by him whenever required.
46. The Agency shall have to make his own arrangement for housing facilities for labour away from DTU campus site and shall have to transport the labour to and fro between site and labour camp at his own cost.
47. Maintenance for 1 year after date of completion of the project. After successful completion of project three months performance run shall be given by the agencies. During the period of nine month only operational charges will be paid to the agency, afterwards maintenance and operation work will be awarded at his quoted rate.
48. The Agency shall make his own arrangement for collection and segregation of solid waste from residential flats and hostel mess etc. and transport it to the working site for final disposal.

**Executive Engineer**  
DTU, Bawana Road, Delhi

## **Technical Condition for STP**

1. STP of capacity 1 MLD based on Bio Filter for treating domestic water.
2. Waste to energy plant of capacity 1 TPD based on thermophilic anaerobic digestion for treating the Solid waste.
3. Scope of work for STP i/c supply, testing, installation, commissioning of STP & waste to energy plant there to i/c the operation & maintenance i/c the supply of several equipments supervision of testing erection & commissioning of the complete treatment package (civil tank, mechanical, plants unit, piping Electrical) on turnkey basis.
4. Civil structure i/c :-
  - a. Bar screen chamber 1 no. of size 2.0x2.0x1.0 meter made of RCC.
  - b. Sewage collection tank 1 no. of size 300 cubic meter made of RCC.
  - c. Bio filter basin with gravity sand filter 1 no. of area 660 sq. meter made of bricks works with necessary RCC structure.
  - d. Treatment water collection tank 1 no. made of RCC made of capacity 150 cubic meter.

All above mentioned size are indicative & are subject to change /modify as per requirement.

5. Electro mechanical equipment include:-
  - a. Bar screen 2 no. size 1.00 x 1.00 meter made of SS of grade 304.
  - b. Sewerage feed pump 2 no. of capacity 50 cubic meter/hr of 10 kwh rating incline TEFC squirrel cage motor IP 55.
  - c. Organic/inorganic media/catalyst for 1 MLD plant.
  - d. Ozonation for effective disinfection and advance COD & BOD reduction.
  - e. Pipes, valves & fitting as per requirement.
  - f. MCC panel 1 no. i/c cables etc.

All mention size are indicative and are subjected to change/modify as per the process requirement.

6. For Waste to Energy Management feed pump of suitable capacity, Pre-Treatment Unit, Pump of capacity 50 cubic/hr , Container with-in built digester tank, Dewatering Tank, Gas Balloon, Scrubber, Engine, Safety Devices, Piping & Valves, Electrical & Instrumentation.

All above are as required.

- a. Required civil work like foundation, pathways, shades, boundary wall, will be construct by client.
- b. Approach to plant is by all weather motorable roads.

- c. System should not generated any sludge.
- d. Power consumption shall be minimum.

7. Treated water characteristic at output of proposed plant:-

SI. No.	PARAMETERS	UNITS	VALUES
1	Ph.	s.u.	6.5-8.5
2	TSS	mg/l	Up to 20
3	TDS	mg/l	<500
4	BOD	mg/l	Up to 10
5	COD	mg/l	Up to 50
6	Faecal Coliforms	MPN/100ml	<230 MPN/ 100ml

## **Tender and Condition for Operation & Maintenance of SPT & Waste to Energy Plant**

1. Work will be carried out as CPWD specification where applicable Safety procedure as indicated in CPWD specification should be followed.
2. Contractor shall be responsible for operation of plant so as to treat effluent per DPCC norms.
3. Testing of water are be tested for PH, Total suspended solids, Chemical oxygen demand, Biochemical oxygen demand, Ammoniacl nitrogen, Nitrate, Grease and oil, Boi Assay in treated water and inlet water to STP plant shall be done by DPCC approved laboratory on Quarterly bases.
4. The rates quoted shall be inclusive of wages of Staff i/c relievers, cleaning material, uniform and all taxes and duties etc. as applicable.
5. The contractor shall take precaution for safety of the workmen. If any accident/miss-happening occurs the department shall not be responsible for the same. If any compensation is to be paid victim, the firm shall pay the same and no claim in this account shall be entertained by the department.
6. All the cleaning material i.e. soap duster etc. shall be arrange by the contractor at his own cost for cleaning of Installation. If cleaning of installation is not found satisfied at any time, a recovery of 200/- per occasion shall be made from the bill of contractor.
7. In case the department staff is posted or due to some other reason, the department reserve the right of terminate the contractor in full or part thereof.
8. The contractor shall furnished name & contact number of the person who should be contacted during emergency.
9. No T&P shall be issued the contractor.
10. The contractor shall maintain "attendance register" in support of the attendance of the staff and the same shall be got periodically checked from EE /AE concern. Failure to which suitable recovery will be made from the contractor bill as decided by the Engineer-in-charge.
11. The contractor shall prepare "Monthly" duty chart with name and duty hours stated therein. The same shall be submitted the EE /AE concern seven days in advance.
12. In case of any damage to any equipment sue to negligence of contractor's staff the same will have to be made good by the contractor at his cost. Failure to which suitable recovery will be made from the contractor bill as decided by the Engineer-In-Charge.
13. Before the start of contract, the contractor is bound to submit the details of the workers proposed to be engaged by him. If the contractor fails to supply list of the workers, the work shall not be treated as started at site.
14. The contractor shall replace the staff, in the event of misconduct by him.
15. The contactors/Firm is advised to visit the site of work before quoting the rates, in order to ascertain the quantum and location of work.
16. It shall be entirely the responsibility of the contractor to ensure that no unlawful act is done by his persons while on duty. In case any theft/loss of department property takes place due the negligence or carelessness of his personnel, the contractor will be held responsible and shall make good the same. The aforesaid terms and condition shall be read in conjunction with the general rules and direction for the guidelines of Contractor from PWD-8 .
17. The contractor is bound to distribute the salary/wages to his worker by 7<sup>th</sup> of each month, positively. Payment to the contractor will be mate quarterly.



18. The contractor shall take all precaution for safety of the workmen. If any accident/miss-happening occurs, the department shall not be responsible for the same. Consequently any compensation payable shall be at the contractor cost.
19. (A) The contractor shall provide two sets of summer uniform (shirt, pant & black shoes) and two set of winter uniform (shirt, pant and woolen jersey) along with badge having name of worker , designation of worker and name of agency with in 15 days of start of work. Failing which a recovery @ Rs. 1000/- per worker per month for summer uniform and @ Rs. 1000/- per worker per month for winter uniform shall be made from the contractor bill and department will arrange the uniform for the contractor's worker.  
(B) Worker deputed on duty should be in uniform. if any worker found without uniform a recover @100/- per day per worker shall be made from the contractor's bill.
20. Recovery shall be made at the following rate if the staff found absent from duty.
  - a) Operator cum technician @1200/- per Shift.
  - b) Sweeper @1000/- per day per Shift.
  - c) Supervisor @1500/- per visit.
  - d) Technician @1500/- per visit.
  - e) Testing of water @ 2000 per test.
21. **Inventory as per physically available at site & shall be handed over by the site staff.** Any other addition/alteration in the installation shall be assured to be covered in the scope of the work.
22. Testing of water shall have to be carried out by the contractor every month from DPCC approved laboratory and submit the report to concern JE (C)

**Executive Engineer**  
DTU, Bawana Road,  
Delhi-110042.

### Schedule of Quantity

C/o Sewerage Treatment Plant & Waste to Energy Plant at DTU, Bawana, Road, Delhi. (S.H. – Designing, Supply, Erection & Installation, Commissioning & there to operation & maintenance for 15 years of 1 M.L.D. STP based on Bio filter & 1 TPD Waste to Energy Plant)

Sl. No.	Description of item	Qty.	Rate	Unit	Amount
1	C/o sewage treatment plant (STP) i/c Designing, Supply, Erection & Installation, Commissioning of 1 M.L.D. STP based on Bio filter	1	No.	Each	
2	C/o Waste of energy plant i/c Designing, Supply, Erection & Installation, Commissioning of 1 TPD Waste to Energy Plant) based on thermos Phillic anarerobic digestion.	1	No.	Each	
3	Operation and routine maintenance of sewage treatment plant of 1 MLD capacity & waste to energy plant of 1 TDP round the clock on monthly basis on all days of weeks by deploying of staff as below operation & maintenance i/c monitoring and healthy working of the plants providing all the chemical, T&P items & minor repair of pump and other accessories i/c monthly sample testing of STP treated water from approved lab of DPCC.				
(a)	Operator for Sewage Treatment Plant- 3 No.				
(b)	Operator for Waste to Energy plant- 2 No.				
(c)	Sweeper- 2 No.				
(d)	Helper - 2 No.				
(d)	Supervisor – 1 No.	180	Months	monthly	
(e)	All consumables, spares and necessary items related to plan operation.				
<b>Total</b>					