



**I.K. GUJRAL PUNJAB TECHNICAL  
UNIVERSITY, JALANDHAR-KAPURTHALA  
HIGHWAY, KAPURTHALA**

## **TENDER DOCUMENT**

**FOR**

**OPERATION RUNNING & COMPREHENSIVE  
MAINTENANCE OF THREE NOS. SEWAGE  
TREATMENT PLANTS (TWO OF 30KLD AND  
ONE OF 50 KLD CAPACITY)**

**AT**

**I K GUJRAL PUNJAB TECHNICAL UNIVERSITY  
MAIN CAMPUS  
JALANDHAR-KAPURTHALA HIGHWAY  
KAPURTHALA (PUNJAB) – 144603**

**I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY  
JALANDHAR-KAPURTHALA HIGHWAY,  
KAPURTHALA**

  
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## NOTICE INVITING TENDER

1. Sealed tenders are invited from reputed agencies under 'Two Packet System' (Technical Bid – Unpriced & Financial Bid – Priced) on behalf of Punjab Technical University hereinafter referred as IKGPTU for the following services at IKGPTU Main Campus, at Jalandhar-Kapurthala Highway, Kapurthala, Punjab:-

Name of Work	Cost of Tender Document	Earnest Money	Period of Service
Operation, Running & Comprehensive Maintenance of Three nos. Sewage Treatment Plants (Two of 30 KLD and One of 50 KLD capacity) at IKGPTU Campus Jalandhar-Kapurthala Highway, Kapurthala, Punjab for a period of three year from the date of award of contract.	₹.2000/-	₹.1 Lac.	Three Years

2. The tender document can be obtained from 10.00 AM to 04.00 PM on all working days upto **20/06/2018** from the office of 'The Registrar, I K Gujral Punjab Technical University, Jalandhar-Kapurthala Highway, Kapurthala, Punjab on payment of Rs.2000/- (Rupees Two Thousand only) (non-refundable) in demand draft/pay order drawn in favour of 'The Registrar, I K Gujral Punjab Technical University payable at Jalandhar towards the cost of one tender document. Tender document can also be downloaded from PTU's website [www.ptu.ac.in](http://www.ptu.ac.in) and in such a case, the bidder shall deposit the cost of tender documents alongwith submission of the tender, failing which his tender shall not be opened. The cost of tender documents in this case shall be deposited in the form of demand draft/pay order and submitted in the envelope containing Earnest Money Deposit (EMD). The bidders are advised not to make any corrections, additions, alterations in the downloaded tender documents. In case, any corrections, additions, alterations are made in the downloaded tender documents, such tender shall not be considered.
3. The Earnest Money for an amount as specified above shall be deposited in the form of demand draft/pay order drawn in favour of 'The Registrar, I K Gujral Punjab Technical University payable at Jalandhar.



4. **Eligibility Criteria**

Eligibility Criteria of the bidders shall be assessed based upon the "Qualifying Criteria" forming part of the tender documents.

5. IKGPTU may issue addendum(s)/corrigendum(s) to the tender documents. In such case, the addendum(s)/corrigendum(s) shall be issued and placed on IKGPTU's website atleast three days in advance of date fixed for opening of tender. The bidders who have downloaded the tender documents from website must visit the website and ensure that such addendum(s)/corrigendum(s) (if any) is also downloaded by them. Such addendum(s)/corrigendum(s) (if any) shall also be submitted, duly stamped and signed, alongwith the submission of the tenders. Any tender submitted without addendum(s)/corrigendum(s) (if any) is liable to be rejected.
6. The tender documents shall be submitted in two separate sealed packets viz. Packet-I containing Technical Bid and Packet-II containing Financial Bid. Detailed credentials as per the requirement of eligibility criteria and all tender papers except Bill of Quantities are to be submitted in "Technical Bid". Bill of Quantities (Financial Bid) with rates duly filled in are to be submitted in "Financial Bid".
7. Completed tender documents in two packets viz. Packet-I and Packet-II shall be sealed separately in envelopes super-scribing as Packet-I (Technical Bid) and Packet-II (Financial Bid) along with the name of the work. These two sealed envelopes and the envelop (super-scribing "Earnest Money and cost of tender documents for the work" containing the Earnest Money and cost of tender documents) in the form as prescribed in the tender documents shall further be sealed in a larger envelope super-scribing the name of the work as stated above (alongwith date and time of opening of tenders) and should be deposited in the tender box at the following address:

THE REGISTRAR,  
I K GUJRAL PUNJAB TECHNICAL UNIVERSITY  
JALANDHAR-KAPURTHALA HIGHWAY, KAPURTHALA  
PUNJAB

before **12.00** hours of **21/06/2018** Tenders (Technical Bids only) shall be opened at **12:30** hours on the same day in the presence of the tenderers or their authorized representatives intending to attend the opening. After evaluation of the technical bids, the financial bids of only those agencies who fulfill the eligibility criteria specified in the tender documents shall also be opened on the same day at 16.00 hours. The decision of IKGPTU regarding evaluation/fulfillment of eligibility criteria shall be final and binding. Any tender received later than the time and date of opening of Technical bids shall be rejected and returned to the tenderer unopened.

8. In case, the date of submission/opening of tenders happens to be holiday, the tenders shall be received/opened on the next working day.

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9. Any tender received without Earnest Money & the cost of tender document in the form as specified in tender documents shall not be considered and shall be summarily rejected.
10. IKGPTU reserves the right to cancel the tenders or postpone the tender and to accept/reject any or all tenders without assigning any reasons thereof.
11. Tenderers may note that they are liable to be disqualified at any time during tendering process in case any of the information furnished by them is not found to be true. EMD of such tenderer shall be forfeited. The decision of IKGPTU in this regard shall be final and binding.
12. The transfer of tender documents purchased by one intending tenderer to another tenderer is not admissible. Tenderer can submit tenders only on the documents purchased/downloaded from IKGPTU's website.
13. The Eligibility Criteria, Conditions of Contract including scope of work etc. are forming part of the tender document.
14. Each and every page of the bid must be signed & stamped by authorized signatory.
15. Technical bid will be opened on the due date and time as notified, in the presence of the bidders present with authorization letter from the respective company/firm.
16. Financial bids of only those tenderers will be opened who will fulfill the eligibility criteria and qualify technically.
17. The bidders who qualify the technical bid, will only be informed regarding opening of financial bids. The financial bids will be opened on the due date and time as intimated, in the presence of the vendors with authorization letter from the respective company/firms.
18. Rates quoted should be inclusive of all taxes and duties.
19. The EMD/Performance security is liable to be forfeited in case the supplier fails to start/execute the order in time.
20. Authorized signatory should sign on all the pages of the Tender documents and the documents of the Tenderer.
21. Incomplete Tenders are liable to rejected.
22. The validity of the offer shall be 120 days after the date of opening of the tender. If any bidder withdraws his tender within the validity period or makes any modifications in terms and conditions of the tender and/or rates after submission of tender which are not acceptable to IKGPTU or does not start the work within stipulated period from the date of issue of letter of acceptance, then IKGPTU shall without prejudice to any other right or remedy, be at liberty to forfeit the earnest money deposited by the bidder. In case of forfeiture of EMD, the tenderer shall be debarred from bidding in case of re-invitation of the tenders.

  
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## **ELIGIBILITY CRITERIA**

The tenderers fulfilling all the following criteria shall be considered as qualified for opening of financial bids:

- a. The tenderers should possess the experience of having successfully completed similar works during the last five years (ending last day of the previous month to the one in which tenders are invited) which should be any of the following:-
  - i. Three similar completed works each costing not less than Rs.20.0 Lacs each.
  - ii. Two similar completed works each costing not less than Rs.25.0 Lacs each.
  - iii. One similar completed work costing not less than Rs.40.0 Lacs.

Similar works means "Operation, Running & Comprehensive Maintenance of Sewage Treatment Plants and/or Supply, Erection, Commissioning of New Sewage Treatment Plants.

The bidders must submit the completion certificate issued by the clients. The works for which certificate are attached will only be considered for evaluation.

- b. The agency should have Minimum average annual turnover of ₹25.0 lacs in the last three financial years.

The financial turnover shall be judged from annual reports and/or profit and loss account statement duly signed by the chartered Accountant. The bidders should submit these reports for the financial years 2015-16, 2016-17 and 2017-18 along with bids. The bidders may submit a certificate from Chartered Accountant showing the annual turnovers where audited Annual report is not available.

- c. The bidders should not have been blacklisted or debarred from bidding or declare as a non-performer by any Govt./Semi Govt./Autonomous body. The bidders shall submit a declaration duly attested by Notary that they have not been blacklisted or debarred from bidding or declare as a non-performer by any Govt./Semi Govt./Autonomous body.
- d. The bidders should have the following registrations/documents:
  - i. Provident Fund Registration.
  - ii. GST Registration
  - iii. Valid PAN in the same name of the bidder/tenderer.

**Enclosed self attested copies of the above (para d) registration certificates.**

## GENERAL TERMS AND CONDITIONS

The tenderers are advised to study the tender document carefully. Submission of bid shall be deemed to have been done after careful study and examination of the tender document with full understanding of its implications. The aspiring tenderer should submit their bids in compliance with the scope of work, tender procedures and contract terms and conditions as prescribed in the tender document. The following instructions should be carefully noted and complied with:

- a. The tenderers shall sign all pages of tender document. All changes, alteration, corrections in the bid shall be signed in full by the person(s) signing the bid with date. The tender document duly signed will be considered a contractual obligation for the tender.
- b. The tenderers shall quote the rates in Indian Rupees, in English language and international numerals. The rate shall be entered in figures as well as in words. In case of any discrepancy between rates mentioned in figures and words, the latter shall prevail. Rates quoted by the bidder shall be final and no amendment shall be permitted. All rates shall be fixed & inclusive of all taxes and shall not be subject to escalation. Upward change in rates will not be considered due to any hike in market prices or taxes during the period of contract. Rates once finalized will be fixed for the total contract period including extensions (if any).
- c. Power of Attorney/Authorization with seal of the company, of person signing the bid documents should also be submitted along with Technical Bid.
- d. Canvassing in any form in connection with the Tender is strictly prohibited and the tenders submitted by the contractors who resort to canvassing are liable for rejection.
- e. Bidders are advised to visit and examine the site where the work to be executed and its surroundings or other areas as deemed fit by bidder and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and execution of the contract. The cost of visiting the site and collecting the relevant data shall be at the bidders own expenses.

Contact details for any clarification during the visit are as follows:

Mobile:94780-98046



## CONDITIONS OF CONTRACT

### DEFINITIONS

In the Contract, as herein after defined, the following word expressions shall have the meanings hereby assigned to them, except where the context requires otherwise.

- a) **"Client or Principal Employer or Employer or Owner"** means the I K Gujral Punjab Technical University, Jalandhar-Kapurthala Highway, Kapurthala, Punjab.
- b) **"The Vice Chancellor (VC)"** means the Vice Chancellor of I K Gujral Punjab Technical University.
- c) **"The Registrar"** means the Registrar of I K Gujral Punjab Technical University.
- d) **"Officer or Officer in Charge"** means the person/Agency appointed by I K Gujral Punjab Technical University for operation of this contract.
- e) **"Officer's Representative"** means any official nominated from time to time by the Officer to act on his behalf.
- f) **"Contractor"** means the individual, firm, Company, Corporation who enters into the Contract with the Employer/Officer, and shall include its heirs, executors, administrators, successors, legal representatives, as the case may be.
- g) **"Contractor's Representative"** shall mean the person responsible for execution of the contract who shall be so declared by the Contractor and who shall be authorized under a duly executed power of attorney to comply the instructions and to use, receive materials issued by the Officer to the Contractor for works. He shall be capable of taking responsibility for proper execution of works.
- h) **"Sub-Contractor"** means the individual, firm, Company, Corporation, Joint Venture or Consortium, having direct Contract with the Contractor and to whom any part of the work has been sublet by the Contractor and shall include his heirs, his executors, administrators, successors, legal representatives, as the case may be.
- i) **"Other Contractors"** means the individual, firm, Company, Corporation, Joint Venture or Consortium employed by or having a Contract directly or indirectly with the Client/Employer/Officer other than the Contractor.

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- j) **"Tenderer or Bidder"** means the individual, firm, Company, Corporation, Joint Venture or Consortium submitting a bid/tender.
- k) **"Scheduled Bank"** means a bank included in the second schedule to the Reserve Bank of India Act, 1934, or modification thereto.
- l) **"Contract"** shall mean and include the Agreement or Letter of Acceptance, the accepted Bill of Quantities and Rates, the Conditions of Contract, Instructions to the Tenderers and other Tender Documents.
- m) **"Tender or Bid"** means the offer (Technical and/or Financial) made by individual, firm, Company, corporation, Joint Venture or Consortium for the execution of the works.
- n) **"Specifications"** means the specifications referred to in the Contract and any modification thereof or addition thereto, or as may from time to time be furnished or approved in writing by the Officer.
- o) **"Drawings"** means the Drawings annexed to the Contract or referred in it and shall include any modifications of such Drawings and further Drawings as may be issued or approved by the Officer.
- p) **"Bill of Quantities (BOQ)"** means list of items of work, their quantities and rates.
- q) **"Original Contract Value"** means the sum stated in the letter of Acceptance/Contract Agreement.
- r) **"Contract Value"** means the original contract value subject to the adjustments in accordance with the provisions of the Contract.
- s) **"Site"** means the land and/or other places on, under, in or through which the works are to be carried out, and any other lands or places provided by the Client/Employer/Officer for the purpose of the Contract.
- t) **"Material/s"** means all equipment, components, fittings and other materials including raw materials, which form part of the permanent works.
- u) **"Test"** means such tests as prescribed in the Contract or by the Officer or Officer's Representatives, whether performed by the Contractor or by the Officer or his Representative, or any agency approved by the Officer.
- v) **"Approval or Approved"** means approval in writing including subsequent written confirmation of previous verbal approval.



- w) **"Letter of Acceptance"** means the letter from the Employer or the Officer to the Contractor, conveying acceptance of the Tender.
- x) **"Month"** means the Gregorian calendar month.
- y) **"Day"** means the calendar day.
- z) **"Time"** expressed by hours of the clock shall be according to the Indian Standard time.
- z-i) **"Tender Date"** means closing date fixed for receipt of tenders as per notice inviting tender or extended by subsequent notification.
- z-ii) **"Rupees"** (or ₹ in abbreviation) shall mean Rupees in Indian currency.
- z-iii) I.K. Gujral Punjab Technical University may at its discretion increase/decrease the quantity/period of services etc. of the tendered items/subject matter of tender.
- z-iv) Tenderer must ensure statutory compliance of PF Act, ESIC Act, Payment of Wages Act, Workmen's Compensation Act, Maternity Act, Labour Laws and Labour Welfare Measures as per applicable rules and regulations.

#### 4.1 HEADING AND MARGINAL NOTES

- a. The top heading and marginal notes given in the tender or Contract documents are solely for the purpose of facilitating reference and shall not be deemed to be part thereof and shall not be taken into consideration in the interpretation or consideration thereof.
- b. **Notices, consents, Approvals, Certificates and Determination.**


Wherever in the Contract provision is made for giving or issue of any notice, consent, approval certificate or determination, it shall be in writing and the words notify, certify or determine shall be construed accordingly.

#### 4.2 SINGULAR, PLURAL AND GENERAL

Words importing the singular only also include the plural and vice versa where the context requires. Similarly, words importing masculine gender also include the feminine gender.

#### 4.3 COMMUNICATION AND LANGUAGE OF CONTRACT

- a. **Communication to be in writing**

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All notices, communications, references and complaints by either party to the Contract shall be in writing in English, Punjabi or Hindi. Communication from only authorized representative of the Contractor shall be entertained.

**b. Language of Contract**

The Contract document shall be drawn up in English.

**4.4 LAWS GOVERNING THE CONTRACT**

The Contract shall be governed by the laws in force in India.

**4.5 CONTRACTOR'S UNDERSTANDING**

The Contractor shall be deemed to have satisfied himself, before tendering, as to the correctness and sufficiency of his tender for the works and of the rates and prices stated in the Bill of Quantities, all of which shall except in so far as it is otherwise provided in the Contract, cover all his obligations under the Contract and all matters and things necessary for the proper execution, completion and maintenance of works.

**4.6 COMMENCEMENT OF WORK**

The Contractor shall commence the works within a period of seven days from the date of issue of Letter of Acceptance.

**4.7 INDEMNITY BY THE CONTRACTOR**

**Indemnity against all actions of Contractor**

The Contractor shall hold and save harmless and indemnify the Client/Employer/Officer and their employees, from all actions, suits, proceedings, loss, costs, damages, charges, claims and demands of every nature and description brought against or recovered from the Client/Employer/Officer and their employees by reason of any act or omission of the Contractor and/or his representative and/or his Employees and/or his sub-contractors in the execution of the works or in the guarding of the same. All the sums payable by Client/Employer/ Officer by way of compensation under any of these conditions, shall be recovered from the dues of the Contractor, without reference to the actual loss or damage sustained, and whether or not any damage shall have been sustained.

**Indemnity against all Claims of Patent Rights and Royalties**

The Contractor shall hold and save harmless and indemnify the Client/Employer/Officer, his officers and Employees from and against all claims and proceedings for or on account of infringement by the Contractor of copyright, any patent rights, design, trademark or name, secret process, patented or unpatented invention, articles or appliances manufactured or used

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for or in connection with the works and from and against all claims, proceedings, costs, damages, charges, and expenses whatsoever in respect thereof or in relation thereto. The Contractor shall pay all royalties, taxes, rent and other payments or compensation, if any, for getting the materials required for the works and due fulfillment of the contract and indemnify Client/Employer/Officer against any claims in this regard.

The Contractor shall, at his own expense, arrange for the safety provisions as required by any law in force, in respect of the labour employed directly or indirectly welfare measure for performance of the works, and shall provide all facilities in connection therewith.

The responsibility for implementing the instructions/guidelines for working on National Holidays and Sundays shall be of the Contractor.

IKGPTU shall not have any concern or relation either directly or indirectly with the personnel employed by the contractor for execution of this contract and all the statutory obligations shall be discharged by the contractor.

This agreement will be a commercial agreement and not one for creation of employment.

#### **4.8 OCCUPATION AND USE OF LAND**

No land belonging to or in the possession of the Client/Employer/Officer shall be occupied by the Contractor without written permission of the Officer. No unauthorized buildings/huts/construction/structures will be put up by the contractor in IKGPTU campus.

#### **4.9 LABOUR LAWS:**

- a. In dealing with labour and employees, the Contractor and his subcontractors (including piece rate and petty Contractors) shall comply fully with all laws and statutory regulations.

#### **4.10 Claims on account of violation of labour laws**

If any moneys shall as a result of any instructions, directions or decisions from the authorities or claim or application made under any of the labour laws or regulations be directed to be paid by the Officer because of any failure of the Contractor, such moneys shall be deemed to be moneys payable to the Officer by the Contractor and on failure of the Contractor to repay the Officer any moneys paid or to be paid as aforesaid within seven days after the same shall have been demanded, the Officer shall be entitled to recover the amount from any moneys due or becoming due to the Contractor under this or any other contract with the Employer. The Officer shall not be bound to contest any such

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claim or demand unless the Contractor makes a written request for it, and Contractor's reasons for contesting are considered reasonable by the Officer and the Contractor deposits the full cost that the Officer may have to incur in contesting the case.

The Contractor shall be responsible for safety of all employees/labour employed by him on works, directly or through petty Contractors or sub-Contractors and shall report accidents, occurring on works to the Officer or the Officer's representative, and shall make every arrangement to render all possible assistance and to provide prompt and proper medical attention. In case of fatal accident, it will be Contractor's responsibility to report accident to police keeping the Officer advised of the same. The compensation for affected workers or their relatives shall be paid by the Contractor in such cases with utmost expedition in accordance with the Workmen's Compensation Act.

#### 4.11 Payment Terms

- a) Monthly payments shall be made on the basis of accepted rates.
- b) On receipt of bill (s) complete in all respects in the university, the same shall be processed for payment within 7 working days.
- c) Efforts shall be made that payment is released within 14 days from the date of processing of bill.
- d) All payments shall be made by Cheques/RTGS/NEFT.
- e) IKGPTU shall be at liberty to withhold any of the payments in full or in part subject to recovery of penalties/default of the contractor.
- f) Payment shall be made after deducting Security deposit and other statutory deductions.
- g) Payment will be made only on submission of following documents:
  - a) Bank statement or documentary evidence showing transfer of salary in the individual accounts of the staff deployed at IKGPTU's staff works.
  - b) EPF challan forms

**Note:** It may please be noted that payment for a particular month shall be made by IKGPTU only after payment is made by the agency to workers engaged, depositing of EPF to the concerned department and after submission of documentary evidence to the university. Till such time, all the payments shall be made by the agency from his resources.

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#### **4.12 SECURITY DEPOSIT**

The EMD of successful bidder shall be converted into security deposit. Further, an amount equivalent to 5% (of gross amount of bills payable to the contractor) shall be recovered from running account/final bills till the total security deposit including EMD become 5% of the awarded value of the contract. The security deposit shall be released after successful completion of the work, including warranty period (if any). No interest will be paid by the IKGPTU on the security deposit.

#### **4.13 RATES FOR ITEMS OF WORK TO BE ALL INCLUSIVE**

The rates quoted in Financial Bid of the Contract, shall be all-inclusive and provide for works duly and properly completed in accordance with terms and conditions of the Contract.

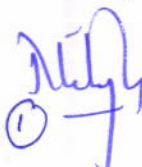
All rates quoted in the Financial Bid shall be deemed to be inclusive of all types of direct and indirect taxes imposed by Central/State Govt. and local bodies such as GST, royalties, duties, Cess, octroi and other levies as applicable and also include all import duties. The rates shall also be inclusive of all taxes, duties and other charges imposed outside the country on the production, manufacture, sale and transport of the Contractor's equipment, plant, materials and supplies to be used on or furnished under the contract and on the services performed under the contract. Any change in GST rates after submission of Tender by the bidder shall be subjected to adjustment.

The Contractor shall bear the cost of all royalties, fees and other payments in respect of patents, patents right and license(s) which may be payable to patentee, licensee or other person or corporation and shall obtain all necessary licenses/permissions. In case of any breach (whether willfully or inadvertently) by the Contractor of this provision, the Contractor shall indemnify Employer, Officer and their employees against all claims, proceedings, damages, costs, charges, loss and liability which they or any of them may sustain, incur or be put to by reason or in consequence directly or indirectly of such breach and against payment of any royalties, damages or other money which the Employer/Officer may have to make to any persons or pay in total to the patent rights in respect of the users of any machine, instruments, process, articles matter or thing constructed, manufactured, supplied or delivered by the Contractor under this contract.

Nothing extra shall be payable over the quoted rates, except as specifically provided in the Contract.

#### **4.14 SUSPENSION OF WORKS ORDERED BY THE OFFICER**

The Contractor shall, on the order of the Officer, suspend the works or any part thereof, for such time, and in such manner, as the Officer may consider necessary.



#### 4.15 Force Majeure

Force Majeure Clause : If at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract shall be prevented or delayed by reason of any war, hostility, acts of public enemy, civil commotion, sabotage, serious loss or damage by fire, explosions, epidemics, strikes, lockouts or acts of God (hereinafter, referred to events) provided, notice of the happening of any such event is given by either party to the other within 30 days from the date of occurrence thereof, neither party shall be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance of delay in performance, and works under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist, and the decision of the Registrar as to whether the works have been so resumed or not shall be final and conclusive, PROVIDED FURTHER that if the performance in whole or in part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 120 days, either party may at its option terminate the contract by giving notice to the other party.

#### 4.16 Arbitration:

If any difference arises regarding this contract, its interpretation on the payment to be made there under, the same shall be settled by mutual consultations and negotiations. If attempts settlement through negotiation fails, either of the parties may make a request to other party for settlement of the dispute for decision of a sole arbitrator, to be appointed by university. The provision of arbitration and conciliation Act, 1996 and the rules framed there under and in force shall be applicable to such proceedings.

#### 4.17 Territorial Jurisdiction

Dispute, if any, shall be subject to the territorial jurisdiction of Kapurthala court.

  
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- 5.0 The Three Nos. Sewage Treatment Plants (STP) are presently working at IKGPTU's Campus having following major parts /equipments:-

**STP 30 KLD capacity installed near Main Administrative Buildings (Kapurthala side) :-**

Sr. No.	Description of items	Unit	Qty.
	Electromechanical Equipment		
1	Stainless steel (SS-304) bar screen of size 300x500mm including accessories complete as per specification.	Each	1
2	Fully submersible sewage transfer pumps to transfer sewage from equalization tank FAB reactor including popes, valves, level controllers for automatic operation, motor control panel, cables and any other material required for proper installation		
	Capacity 1.6m <sup>3</sup> /hr Head 12m	Each	2
3	MS Fabricated Module for STP of adequate capacity having compartments for FAB reactors and tube settler epoxy painted inside and enamel paint on exterior surface with necessary accessories and controls to be installed in the RCC tanks complete in all respects.	Each	1
4	Heavy duty twin lobe rotary type air blower suitable for continuous operation including necessary accessories, pipes, valves, motor control panel, cabling and accessories complete.	Each	2
	Capacity 120m <sup>3</sup> /hr Head 0.65Kg/Sq.cm		
5	HDPE pipe air grid with coarse bubble diffusers, valves, fittings and accessories for equalization tank and sludge holding cum thickening tank.	Lot	1

Sr. No.	Description of items	Unit	Qty.
6	SS-304 pipe air grid with coarse bubble diffusers, valves, fittings and accessories for equalization tank and sludge holding cum thickening tank.	Lot	1
7	PVC Fab media as per specifications in requisite quantities in FAB Reactor.	Lot	1
8	PVC Tube Settler modular of suitable design and appropriate quantities as requires including accessories and collection through.	Lot	1
9	Chlorine dosing pump 100ltr. Capacity hypochlorite solution holding tank, necessary pipes, valves electrical switch and cables.	Lot	1
10	Centrifugal filter feed pumps with pipes, valves, cables, motor control panel, level controllers and accessories.		
	Capacity 2m <sup>3</sup> Head 34 m	Each	2
11	Pressure sand filter as per specification as per specifications including pipes, valves, accessories and painting etc. suitable for a flow rate of 2m <sup>3</sup> /hr for filtration of treated effluent.		
(a)	Dual Media Filter	Each	1
(b)	Activated Carbon filter	Each	1
12	Horizontal centrifugal pump for irrigation with pipes, valves, fittings, motor control panel, cables, level controllers and accessories.	Each	2
	Discharge 186 lpm Head 24 m		
13	Screw pumps for sludge removal and recirculation with pipes, fittings, valves, motor control panel, cables and accessories.	Each	2

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Sr. No.	Description of items	Unit	Qty.
14	PP plate, CI base frame filter Press with manual operation mechanism. The Filter press should be complete with frame, filter cloth, handle, effluent water tray & sludge disposal tray.		
(a)	No. of Plates : 12 Nos.	Set	1
(b)	Plate size : 300mmx300mm		
15	Ultraviolet disinfection unit. The unit shall have over 99.9% bacterial reduction from inlet to outlet.		
(a)	Flow rate 11200 ltr/hr	Set	1
16	Electrical system including Electrical Panel for all the above including all switchgear, cables, control wiring, multifunction multi meters etc., also including the complete automation of the plant with level controllers and sensors in the RCC and the MS tanks, control cabling, complete in all respect as required as per IS specification.	Job	1

**STP 30 KLD installed at APST Campus IKGPTU, Main Campus,  
Kapurthala (Jalandhar side) :-**

Sr. No.	Description of Items	Unit	Qty.
	Fully automatic sewage treatment Plant based on FABB process with Sewage handling capacity 30m m3 per day.		
	Section-I: Civil Construction		
1.	Bar Screen chamber of.	Each	1
2.	Oil & Grease trap chamber	Each	1
3.	RCC underground Sewage receiving(Equalization) tank	Each	1
4.	RCC underground sludge holding & thickening tank	Each	1
5.	RCC chlorine contact cum unfiltered treated effluent	Each	1
6.	Underground RCC Tube Settler tank	Each	1
7.	Underground RCC FAB tank	Each	1
8.	Underground RCC Tube Settler tank	Each	1
9.	Foundation for various equipments as per requirement	Each	1
10.	M.S. puddle flanges/inserts in various RCC tanks as per requirement.	Each	1
11.	Pump/Panel room for STP.	Each	1



Sr. No.	Description of Items	Unit	Qty.
	Section-II: Electromechanical Equipments		
1.	Stainless steel (SS-304) bar screen	Each	1
2.	Fully submersible Sewage Transfer Pumps to transfer sewage from equalization tank to FAB reactor including pipes, valves, level controllers for automatic operation, motor control panel, cables and any other material	Each	2
3.	Heavy duty twin lobe rotary type air blower suitable for continuous operation including necessary accessories, pipes, valves, motor control panel, cabling and accessories complete.	Each	2
4.	HDPE pipe air grid with coarse bubble diffusers, valves, fittings and accessories for equalization tank and sludge holding cum thickening tank.	Lot	1
5.	PVC FAB media as per specification in requisite quantities in FAB reactors.	Lot	1
6.	SS-304 pipe air grid with coarse bubble diffusers including valves, fitting and accessories for FAB reactors.	Lot	1
7.	PVC tube settler modular of suitable design and appropriate quantities as required including accessories and collection through.	Lot	1
8.	Chlorine dosing pump 100 liters capacity hypochlorite solution holding tank, necessary pipes, valves, electrical switch and cables.	Each	1
9.	Centrifugal filter feed pumps with pipes, valves, cables, motor control panel, level controllers and accessories.	Each	2
10.	Pressure sand filter as per specifications including pipes, valves, accessories and painting etc. suitable for a flow rate of 2m <sup>3</sup> /hr for filtration of treated effluent.	Each	1
	Dual Media Filter	Each	1
	Activated Carbon Filter	Each	2

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Sr. No.	Description of Items	Unit	Qty.
11.	Horizontal centrifugal pump for irrigation with pipes, valves, fittings, motor control panel, cables, level controllers and accessories.	Each	2
12.	Screw pumps for sludge removal and recirculation with pipes, fittings, motor control panel, cables level controllers and accessories.		
13.	PP plate, CI base frame Filter Press with manual operation mechanism. The Filter press should be complete with frame, filter cloth, handle, effluent water tray & sludge disposal tray.	Set	1
14.	Ultraviolet dis-infection unit.		
14.1	Flow rate 11200 ltr/hr	Set	1
15.	Maintenance of electrical system including electrical panel complete in all respect.	Job	1

**STP 50KLD capacity installed at IKGPTU, Kapurthala (Adjoining 30 KLD STP at APST Campus) :-**

Sr. No.	Description of Items	Unit	Qty.
1	Centrifugal, Submersible, non-clog Equalization transfer pumps KIRLOSKAR	Nos.	2
2	Twin type Rotary Air Blowers KIRLOSKAR U7WMAB04021 & 3731	Nos.	2
3	Ultraviolet Disinfection Unit	Nos.	1
4	Chemical Dosing Pump (Chlorinator) along with 100ltrs capacity PVC Tank	Nos.	1
5	Filter Feed Pumps KIRLOSKAR A17EDD002829 & 2725	Nos.	2
6	Sludge Recycling Pumps KIRLOSKAR A17DAE005587 and 5588	Nos.	2
7	Multigrade Sand Filter	Nos.	1
8	Activated Carbon Filter	Nos.	1
9	Filter Press	Nos.	1
10	Screw Pump KIRLOSKAR UBEFNK00238	Nos.	1
11	Electro magnetic flow meters	Nos.	2
12	pH Meter	Nos.	1
13	Control Panel of STP	Nos.	1



## OPERATIONS AND COMPREHENSIVE MAINTENANCE SCOPE :-

- a. Scope of operation and comprehensive maintenance comprises all inclusive activities related with operation, checks, repair, cleaning, servicing, replacement (preventive as well as corrective) of the entire installation as per the details forming part of this document for its trouble free and satisfactory functioning round the clock and year round. It will cover adequate provision of complete range of infrastructure related with men, means and material required for maintenance of the installation. The objective of comprehensive annual maintenance contract is to keep the owner (IKGPTU) totally free from the requirement of operation, checking, repair and maintenance of the installation which will be carried out by the selected contractor who may be entrusted by with the assignment by IKGPTU.
- b. The contractor will keep the system updated all the time with regard to software, hardware and other electro-mechanical equipments and sensing /operating devices. He will maintain proper log book records of daily status of the running the system and also faults /troubles developed and remedial steps taken. The agreed amount for the annual maintenance contract will cover all expenses related with around the clock deployment of technical personnel by the contractor for operation, running, comprehensive maintenance and provision of repairs /consumables or any other material or components or equipments as a whole which may be required for rectification of any fault and for satisfactory functioning of the system.
- c. The contractor will guarantee an uptime 99.99% for the system as per Punjab & CPCB rules and will have to abide by PPCB (Punjab Pollution Control Board) norms/parameters or guidelines issued by PPCB from time to time. In case of any shortfall, he will be responsible to pay the penalty if any imposed by Punjab Pollution Control Board. The contractor will also be responsible for getting the discharge tested at outlet at regular intervals (as prescribed by PPCB) at his own cost.
- d. For any planned shutdown for repair or maintenance, the contractor will obtain the prior permission of the Estate Officer.
- e.. In case the STP Plants remains off for more than four hours for the reasons attributable on the part of contractor, penalty @ ₹.1000/hour will be levied and the amount will be deducted from the bills of the contractor.
- f. All equipments that required repair should be immediately serviced /repaired by the contractor without any cost to IKGPTU. The contractor will also bear the cost of replacements of parts , upto the cost of ₹.10,000.00/- in each case.

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- g. In case of any theft during the tenure of contract, the agency shall be fully responsible for the same and losses due to theft shall be made good by the contractor. Otherwise, The same shall be recovered from the bills of the contractor.
- h. In case of any damage to the property of IKGPTU due to the negligence of the agency persons, manpower engaged by the same, the agency shall have to make good by the contractor. Otherwise, the losses shall be recovered from the bills of the agency.
- i. Contractor shall get the treated effluent in tested from approved laboratory of PPCB (Punjab Pollution Control Board) at least every six months and submit report to IKGPTU.
- j. The contractor will ensure/provide JPCE 1 Bacteria growing culture for best results of STP treated effluent.
- k. The contractor will ensure refilling of filters annually for best result of treated effluent.
- l. Contractor will provide liquid chlorine for treatment of effluent as per the requirements at site.
- m. Contractor will create In House laboratory for testing the parameters of treated effluent as per PPCB norms and its record entry in log book monthly. Cost of necessary equipments and consumables required for the same to borne by the contractor.

#### **6.0 Completion Period**

The contract period is 3 years from the date of award of work and may be extendable for further period on mutual consents on same rates, terms & conditions.

#### **7.0 TENTATIVE PERIOD OF RUNNING SYSTEM**

It will be ensured by the contractor that all effluent is treated on the same day and Sewage Treatment plants shall be run accordingly. Technical staff for running will be deployed accordingly, However one technician on each STP and One Supervisor for all STPs shall be available. No extra payment will be made for the extended hours to any extent for clearing the effluent for the same day.

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## 8.0 SCHEDULE OF CHECKS

- a. The contractor should maintain a Log book for the running the plant and should get it checked from officer/official deputed for the purpose once in a week.
- b. Contractor should get the treated water tested (for PH value) monthly in In-House laboratory.
- c. Contractor should get the effluent tested from the approved laboratory of PPCB at least once in six months and record the results in log book.

## 9.0 PROVISION OF EFFICIENT AND COMPETENT STAFF

The contractor will deploy trained and experienced staff fully conversant with the functioning and design of installation covering software as well as electro mechanical / mechanical equipments. All the effluent should be treated and cleared same day and for that sufficient manpower should be available at site, as under : -

- i) Minimum manpower required
  - a) Technical Operator : 3nos. (one for each plant)
  - b) Supervisor : 1no (For overseeing all the plants)

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# I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

Jalandhar-Kapurthala Highway, Kapurthala, Punjab

Annexure-I (Technical Bid Performa)

Check List for Documents to be attached with this Tender

**Name of the Work:-** OPERATION RUNNING & COMPREHENSIVE MAINTENANCE OF THREE NOS. SEWAGE TREATMENT PLANTS (TWO OF 30KLD AND ONE OF 50 KLD CAPACITY) AT I K GUJRAL PUNJAB TECHNICAL UNIVERSITY CAMPUS, JANDHAR-KAPURTHALA HIGHWAY, KAPURTHALA (PUNJAB) FOR THREE YEARS FROM THE DATE OF ISSUE OF ORDER.

Name of the Firm/Bidder		
Sr. No	Perticulars	Attached / Not Attached
1	Name of the Contact Person	
2	Full Address : (i) Head Office :	
	(ii) Branch Office (if any)	
3	Mobile No./Telephone	
4	E-Mail IDs and Website	
5	FAX No.	
6	Nature of Firm/Concern (Sole Proprietor/Partnership/Pvt Ltd etc.) Self-Attested copy should be attached	
7	Name of Authorized Signatory of Firm: (Authority Letter mentioning authorization to act on behalf of the Firm with photo of authorized signatory duly pasted, must be attached)	
8	PAN No of Firm (Attested copy should be attached)	
9	Copies of Income Tax Returns of last three years.	

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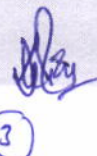


	Name of the Firm/Bidder	
10	Annual Turnover of the Firm of last three years (Financial Years ending 31 March 2016, 31 March 2017 & 31 March 2018). (Self-Attested copy of Audited Balance Sheet of concerned work or Certificate from CA to be attached)	
11	PF Registration (Attested copy should be attached)	
12	GST Registration Certificate (Attested copy should be attached)	
13	Experience for having completed similar works (Experience/Work completion certificate must be attached.)	
14	An undertaking stating that no case is pending against the bidder and the bidder has never been blacklisted by any Government/ Semi Government/Government Undertaking or by any Autonomous Organization. (This undertaking must be attached)	

Signature of Contractor with Seal:

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# I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

Jalandhar-Kapurthala Highway, Kapurthala, Punjab

Annexure-II (Financial Bid)

Name of the Work:- OPERATION RUNNING & COMPREHENSIVE MAINTENANCE OF THREE NOS. SEWAGE TREATMENT PLANTS (TWO OF 30KLD AND ONE OF 50 KLD CAPACITY) FOR THREE YEARS FROM THE DATE OF ISSUE OF ORDER.

Name of the Firm:					Amount (to be filled by the contractor for 36 months for each STP) including all Taxes and duties etc.	
Sr. No	Description of Item	Criteria for quoting the rates				
		Unit	Qty.	Quote Lum Sum Amount per Month against each STP complete as per scope of work	In Figure	In Words
1	OPERATION RUNNING & COMPREHANSIVE MAINTENANCE OF THREE NOS. SEWAGE TREATMENT PLANTS					
i.	STP 30 KLD, Installed Near Main Administrative Building (Kapurthala Side)	Month	36			
ii.	STP 30 KLD, Installed at APST Campus, IKGPTU Main Campus (Kapurthala Side)	Month	36			
iii.	STP 50 KLD Installed at IKGPTU Campus adjoining 30 KLD STP (APST Campus)	Month	36			
Grand Total						

Note : Lowest bidder will be established on the basis of overall quoted amount.

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Signature of Contractor with Seal: