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INDEX

Name of Work: Annual Contract for Operation & Maintenance of 650 KLD capacities Sewage Treatment Plant (STP) at IIT Indore.

Sl. No.	Description	Page
1	Index Page	1
2	Notice inviting E-tenders	2
3	PART-A	3
4	Information and e-Tendering for Contractors	4-6
5	Notice Inviting Tenders (Form CPWD-6)	7-10
6	Tender (Form CPWD-7)	11-17
7	Salient/Mandatory requirement for tender	18
8	PART-B	19
9	Quality Assurance of the work	20-21
10	Additional terms and conditions	22-29
14	Indemnity Bond	30-36
15	Performance Security Guarantee bond	37-39

NIT amounting to Rs. 32, 00,000/- (Rupees Thirty Two Lakh Only) is approved.

[Certified that this N.I.T. contains 39 (Thirty-Nine) pages + BOQ contains 1 pages Total 40 pages only].

Project in-charge

I.I.T. Indore



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**INDIAN INSTITUTE OF TECHNOLOGY INDORE
INFRASTRUCTURE DEVELOPMENT OFFICE**

Notice Inviting e-Tenders No. IITI/ES/ MAINT/ STP/AMC/2019-20/30

The Project in-charge, IIT Indore invites on behalf of IIT Indore online percentage rate / item rate tender on two bid system from the registered contractors in CPWD, BSNL, MPPWD, and MES & *Central PSUs* working agency of IIT/IIM/RRCAT etc. in appropriate category for the following work:

1. *NIT No. IITI/ES/ MAINT/ STP/AMC/2019-20/30*
2. *Name of work: Annual Contract for Operation & Maintenance of 650 KLD capacities Sewage Treatment Plant (STP) at IIT Indore.*
3. *Estimated cost: Rs. 32,00,000/-*
4. *Earnest money: Rs. 64,000/-*
5. *Period of completion: 01 Year*
6. *Last time & dated of submission of bid: 5:00 PM on 28.10.2019.*

The bid forms and other details are available on website <http://iiti.ac.in/tenders/tender>, but the bids can only be submitted online on www.tenderwizard.com/IITI.

Date:

Project in charge



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PART-A



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INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING FORMING PART OF NIT AND TO BE POSTED ON WEBSITE

The Project in-charge, IIT Indore invites on behalf of IIT Indore online percentage rate / item rate tender on two bid system from the Registered contractors in appropriate category* for the following work(s):

S. No.	Name of work and location	Estimated cost put to tender (in Rs.)	Earnest Money	Period of Completion	Last date & time of submission of tender	Period during which EMD, Cost of Tender Document, e-Tender Processing Fee and other Documents shall be submitted	Time & date of opening of tender
1	Annual Contract for Operation & Maintenance of 650 KLD capacities Sewage Treatment Plant (STP) at IIT Indore.	32,00,000/-	64,000/-	01 Year	Up to 05:00 PM on 28.10.2019	After last date and time of submission of tender and up to 05:00 PM on 28.10.2019	At 11:00 AM on 29.10.2019

*The eligible contractors mean registered in CPWD, BSNL, MES, MPPWD, Central PSUs & working contractors of IIT/IIM/RRCAT etc. Indore if they furnish the definite proof from the appropriate authority of having satisfactorily completed three similar works of value 40% or two similar works of value 60% or one similar work of value 80% of estimated cost during last five years.

The enlistment / registration of the contractors should be valid on the last date of submission of tenders.

In case the last date of submission of tender is extended, the enlistment / registered of contractor should be valid on the original date of submission of tenders.



भारतीय प्रौद्योगिकी संस्थान इंदौर

Indian Institute of Technology Indore

IDO

1. The intending tenderer must read the terms and conditions of CPWD-6 for e-Tendering carefully. He should only submit his tender if he considers himself eligible and he is in possession of all the documents required.
2. Information and Instructions for tenderer posted on website shall form part of tender document.
3. The tender 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://iiti.ac.in/tenders/tender>, free of cost and shall be submitted on line on website www.tenderwizard.com/IIT.
4. The tender can only be submitted after uploading the mandatory scanned documents as per list given below.
5. The amount of EMD will be paid by online mode only.
6. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
7. The intending tenderer must have valid class-III digital signature to submit the tender.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in yellow color.

In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0".

Therefore, if any cell is left blank and no rate is quoted by the tenderer, rate of such item shall be treated as "0" (ZERO).



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

Sl. No.	List of Documents
1	EMD
2	Certificate GST No.
3	Registration No.
5	Form A:-Financial information
	i) Financial analysis
	ii) Average Annual turnover 50% of estimated cost of Tender
6	Bank Solvency Certificate VALUE SHOULD BE 40% of Estimated Cost.
7	Details of Eligible Work or Similar Work
8	Successfully completed similar work with in last five years
	i) one similar work of value 80% of estimated cost of tender. OR
	ii) Two similar work of value 60% of estimated cost of tender. OR
	iii) Three similar work of value 40% of estimated cost of tender
9	Structure and organization of the firm/company
11	Certificate of EPF and ESIC

- The number of pages which will be uploaded during the tender submission should be entered in the excel also.
- The pages which are to be uploaded needs to be proper page numbered and page numbers should be mentioned in the excel sheet attached.



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Indian Institute of Technology Indore

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CPWD-6 FORM e-Tendering

*The Project in-charge, IIT Indore invites on behalf of IIT Indore online percentage rate / item rate tender on two bid system from the Registered contractors in appropriate category * for the works of: **Annual Contract for Operation & Maintenance of 650 KLD capacities Sewage Treatment Plant (STP) at IIT Indore.***

- 1.1 The work is estimated to cost **Rs. 32,00,000/-**-This estimate, however, is given merely as a rough guide.
- 1.2 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the tenders. He will also nominate Division which will deal with all matters relating to the invitation of tenders.
- 2 Criteria of eligibility**

*The eligible contractor's means registered in CPWD, BSNL, MES, Railways, Central PSUs & working contractors of IIT/IIM/RRCAT etc. if they furnish the definite proof from the appropriate authority of having satisfactorily completed three similar works of value 40% or two similar works of value 60% or one similar work of value 80% of estimated cost during last five years.
3. Agreement shall be drawn with the successful tenderers on prescribed Form No CPWD 7 (or other Standard Form as mentioned) which is available as a Govt of India Publication and also available on website www.iiti.ac.in. Tenderers shall quote their rates as per various terms and conditions of the said form which will form part of the agreement.
4. The time allowed for carrying out the work will be **01 Year** 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 tender documents.
5. The site for the work is available. *
6. The tender document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website www.iiti.ac.in/tenders/tender or www.tenderwizard.com/IIT or other necessary documents also can be seen in the office of the Project in charge, Infrastructure Development Office, IIT Indore between hours of 10:00 AM to 5:00 PM from every day except on Saturdays, Sundays and Public Holidays in free of cost.
7. Earnest Money will be paid in the form of online mode only.



भारतीय प्रौद्योगिकी संस्थान इंदौर

Indian Institute of Technology Indore

IDO

- The tender submitted shall be opened at 11:00 AM on **29.10.2019**.
8. The tender submitted shall become invalid and cost of tender & e-Tender processing fee shall not be refunded if:
- The tenderer is found ineligible.
 - The tenderer does not upload all the documents as stipulated in the tender document.
 - If any discrepancy is noticed between the documents as uploaded at the time of submission of tender and hard copies as submitted physically in the office of tender opening authority.
9. The contractor whose tender is accepted will be required to furnish performance guarantee of 5% (Five Percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be 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 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.**
10. Intending Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The tenderers shall be responsible for arranging and maintaining, at their own cost, all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work and local conditions and other factors having a bearing on the execution of the work.
11. The competent authority on behalf of the IIT Indore does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition

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including that of conditional rebate is put forth by the tenderers shall be summarily rejected.

12. Canvassing whether directly or indirectly, in connection with tenderers is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.
13. The competent authority on behalf of IIT, Indore reserves to himself the right of accepting the whole or any part of the tender and the tenderers shall be bound to perform the same at the rate quoted.
14. The contractor shall not be permitted to tender for works in the IIT Indore responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the IIT Indore. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
15. 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 tender or engagement in the contractor's service.
16. The tender for the works shall remain open for acceptance for a period of **ninety (90) days** from the date of opening of tenders if any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderers shall not be allowed to participate in the retendering process of the work.
17. This Notice Inviting Tender shall form a part of the contract document. The successful tenderers/contractor, on acceptance of his tender by the Accepting Authority shall within 01 Year from the stipulated date of start of the work, sign the contract consisting of: -
 - a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as uploaded at the time of invitation of tender and the rates quoted online at the time of



भारतीय प्रौद्योगिकी संस्थान इंदौर

Indian Institute of Technology Indore

IDO

submission of tender and acceptance thereof together with any correspondence leading thereto.

b) Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable.

18.1 The tender document will include following three components:

Part A: -

CPWD-6, CPWD-7 including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2010 as amended/modified up to **28.10.2019**.

Part B: -

General/specific conditions, specifications and schedule of quantities applicable to major component of the work.

Part C: -

Schedule A to F for minor component of the work, (SE/EE in charge of major component shall also be competent authority under clause 2 and clause 5 as mentioned in schedule A to F for major components), General/specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.

18.2 The tenderers must associate himself, with agencies of the appropriate class eligible to tender for each of the minor component individually.

18.3 The eligible tenderers shall quote rates for all items of major component as well as for all items of minor components of work.

18.4 Entire work under the scope of composite tender including major and all minor components shall be executed under one agreement.

18.5 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works. The Earnest Money will become part of the security deposit of the major components of work.

**Project In charge
For & on behalf of the Board of Governors, IIT, Indore**

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CPWD-7

- (A) Tender for the work of: ***Annual Contract for Operation & Maintenance of 650 KLD capacities Sewage Treatment Plant (STP) at IIT Indore.***

Signature of officer issuing the documents

Designation: **Project In charge, IIT Indore**

Date of Issue _____

TENDER

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

I/We hereby tender for the execution of the work specified for the Board of Governors, IIT, Kanpur 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) ninety days from the date of opening of tender** and not to make any modifications in its terms and conditions.

A sum of Rs. 64,000/- is hereby forwarded in online mode as earnest money. If I/we, fail to furnish the prescribed performance guarantee or fail to commence the work within prescribed period I/we agree that the said Board of Governors, IIT Indore 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 of commence work as specified, I/we agree that Board of Governors, IIT Indore 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



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Indian Institute of Technology Indore

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the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, up to 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 & Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/ have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in IIT Indore in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

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 _____ **

Witness: **
Address: **
Occupation: **

**
Signature of contractor
Postal Address **



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Indian Institute of Technology Indore

IDO

Operative schedules shall be supplied separately to each intending tenderer)

SCHEDULE 'A'

Schedule of Quantities:

Page 01

SCHEDULE 'B'

Schedule of materials to be issued to the contractor:

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

SCHEDULE 'C'

Schedule of Tools and Plants to be hired to the contractor

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

SCHEDULE 'D'

Extra schedule for specific requirements/document for *As attached in tender form.*
the work, if any:

SCHEDULE 'E'

Schedule of component of other Materials, Labour, POL etc. for price escalation: **N.A.**

SCHEDULE 'F'

Reference to General Conditions of Contract.

Name of Work:	Annual Contract for Operation & Maintenance of 650 KLD capacities Sewage Treatment Plant (STP) at IIT Indore.		
Estimated cost of the work:	Civil Items of Work		Rs. 32,00,000
Earnest money			Rs. 64,000



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Indian Institute of Technology Indore

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Performance Guarantee	5% of the tendered value of the work
Security Deposit	5% of the tendered value of the work

General rules and direction:

Officer inviting tender	Project in charge, Infrastructure Development Office IIT Indore
Maximum percentage of quantity of items of work to be executed beyond which rates are to be determined in accordance with Clause 12.2.& 12.3	See at appropriate clause under definitions

Definitions:

2(v) **Engineer-in-Charge**

For Civil items of work

**Project-In-Charge,
IIT Indore**

2(vi) Accepting Authority

**Project In charge,
IIT Indore**

2(vii) Percentage on cost of materials and labour to cover all overheads and profits

15%

2(viii) **Standard Schedule of Rates:**

Civil Items of Work:

D.S.R. 2018 with up to date correction slips
Central Public Works Department

2(ix) Department:

2(x) Standard CPWD contract Form:

GCC 2010, CPWD **form-7** as modified & corrected up to **28.10.2019** (Whether correction vide latest circulars are incorporated or not in this document). The following condition pertains to GST of clause 37 & 38 of General Condition of contract *and* corresponding Amendments should be read as follows:

a- The Quoted rates should be Inclusive of GST.

Clause 1

- i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance
- ii) Maximum allowable extension

7 Days

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	with late fee @0.1% per day of performance	01 to 01 Year
Clause 2	Authority for fixing Compensation under Clause 2	Project In charge, IIT Indore Or successor thereof
Clause 2 A	Whether Clause 2A shall be applicable	No
Clause 5	i) Number of days from the date of issue of letter of acceptance for reckoning date of start	7 Days
	ii) Time allowed for execution of work	01 Year
	iii)	
Authority to decide	Extension of time	Dean Development, Infrastructure Office IIT, Indore
		Infrastructure Development
Clause 6/ 6A		Only clause 6 applicable.
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	
Clause 10A	Material to be provided by the contractor.	Applicable
Clause 10B (ii), (iii)	Whether clause 10-B (ii) and 10-B (iii) shall be applicable.	Not Applicable
Clause 10 C	Component of labour expressed as percentage of value of work	25 %
	(10 C Not Applicable)	
Clause 10 CA	Materials covered under this clause.	Base price of all the materials covered under clause 10 CA
	<i>Nearest material (other than cement, reinforcement bars and structural steel) for which All India Whole sale price Index is to be followed.</i>	
	1. Cement (PPC)	Nil
	2. Steel	Nil
	(10 CA Not Applicable)	NIL



भारतीय प्रौद्योगिकी संस्थान इंदौर

Indian Institute of Technology Indore

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Clause 10 Increase/Decrease in Price of materials/wages **Not Applicable**
CC

Clause 11 **Specification to be followed for execution of work:**

For Civil items of work CPWD Specifications 2009 Vol. 1 and Vol. 2 with up to date correction slips (Hereinafter called CPWD specifications also).

Clause 12

12.2 & 12.3 Deviation limit beyond which clause 12.2 & 12.3 shall apply for building work **50%**

12.5 Deviation limit beyond which clause 12.2 & 12.3 shall apply for foundation work **100%**

Clause 16 **Competent Authority for Deciding reduced rates:**

For Civil items of work **Project In charge,
IIT Indore**

Clause 18 List of mandatory machinery, tools & plants to be deployed by the contractor at site. **N.A.**

Clause 36 (i) **Requirement of technical Representative(s)**

For supervision of civil as well as electrical items of work, technical representatives of the respective disciplines will be required to be deployed.

Clause 42

i) a) Schedule/ statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2018 printed by CPWD **D.S.R. 2018 (with up to date correction slips)**

ii) **Variations permissible on theoretical quantities**

a) Cement for works with estimated cost put to tender not more than Rs. 5 lakhs. **3% plus/minus**

For works with estimated cost put to Tender is more than Rs. 5 lakhs **2% plus/minus**

b) Bitumen all works **2.5% plus only & nil on minus side.**



भारतीय प्रौद्योगिकी संस्थान इंदौर
Indian Institute of Technology Indore

IDO

- c) Steel reinforcement and structural steel Sections for diameter, section and category. **2% plus/minus.**
- d) All other materials **Nil**

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

SI No	Description of items	Rates in figures and words at which recovery shall be made from the contractor	
		Excess beyond permissible variation	Less use beyond the permissible variation
1.	Cement (PPC)	Double the Issue rate	Double the Issue rate
2.	Steel reinforcement (TMT Bars)	Not Applicable	Not Applicable



SALIENT/MANDATORY REQUIREMENTS FOR THE TENDER

A. SCOPE OF WORK

- a. Provision of trained personnel at site for Monitoring & Running of the installed STP.
- b. Liability of satisfactory operation of the installed STP as per the concerned Pollution Control Board Authorities.
- c. Personal protective equipment's like safety shoes, goggles, dress will be in contractor scope.
- d. Provide necessary arrangement to tackle storm water and lifting of sludge.
- e. The Cost of Chemicals, Greasing and Varnishing of various equipment's needed for plant operation.
- f. Regular preventive maintenance of the Capital electromechanically equipment's as pumps, Valves, Plants etc. and take corrective action whenever required for the smooth operation of STP.
- g. All the parameters of treated wastewater shall be well within state pollution control board norms at any time.
- h. V -Belt for blower and other consumables like chlorine and other chemicals oil, and grease etc.
- i. Sludge disposal including trolley for sludge disposal.
- j. All required chemicals like testing kits and lab chemicals for smooth operation of the plant.

B. Exclusion Special notes

- a. All replacement of multigame filter media and activated carbon media whenever required shall be on actual cost.
 - b. Any replacement & Maintenance of equipment will be in client Scope.
 - c. All spars preventive & Maintenance whenever required shall be on actual cost.
 - d. All maintenance work related to effluent incoming pipe line and treated water disposal pipeline beyond the battery limit of STP
- 1 Any item which is not available in the BOQ shall be paid as per CPWD DSR 2018 rates. If it is not available in BOQ and DSR then extra items shall be worked out as actual cost of material and actual cost of labour plus 15% as overhead and profit. The decision of Engineer-In-Charge will be conclusive and final binding on the contractor.
 - 2 For the works having work value below Rs. 2 Lakhs: no Electricity charges to be charged. Separate connection will be given.

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- 3 For the work having work value between Rs. 2 Lakhs to Rs. 25 Lakhs: 1% of executed work (items which requires electricity may only be counted) value to be charged as electricity charges in each running bill.
- 4 For the Work having work value above Rs. 25 Lakhs: meter should be installed.

PART-B



QUALITY ASSURANCE OF THE WORK

1. The contractor shall ensure quality control measures on different aspects of construction including materials, workmanship and correct construction methodologies to be adopted. He shall have to submit quality assurance programme within two weeks of the award of work. The quality assurance programme should include method statement for various items of work to be executed along with check lists to enforce quality control.
2. The contractor shall get the source of all other materials, not specified elsewhere in the document, approved from the Engineer-in-Charge. The contractor shall stick to the approved source unless it is absolutely unavoidable. Any change shall be done with the prior approval of the Engineer-in-Charge for which tests etc. shall be done by the contractor at his own cost. Similarly, the contractor shall submit brand/ make of various materials not specified in the agreement, to be used for the approval of the Engineer-in-Charge along with samples and once approved, he shall stick to it.
3. **Other Laboratories:**
 1. The contractor shall arrange carrying out of all tests required under the agreement through the laboratory as approved by the Engineer-in-Charge and shall bear all charges in connection therewith including fee for testing. The said cost of tests shall be borne by the contractor/department in the manner indicated below.
 - i) By the contractor, if the results show that the test does not conform to relevant CPWD Specifications / BIS code or specification mentioned elsewhere in the documents
 - ii) By the department, if the results confirm to relevant CPWD Specifications / BIS code or specification mentioned elsewhere in the documents.
 2. If the tests, which were to be conducted in the site laboratory, are conducted in other laboratories for whatever the reasons, the cost of such tests shall be borne by the contractor.
- C) **Sampling of Materials:**
 1. Sample of building materials fittings and other articles required for execution of work shall be got approved from the Engineer-in-Charge. Articles manufactured by companies of repute and approved by the Engineer-in-Charge shall only be used. Articles bearing BIS certification mark shall be used in case the above are not available, the quality of samples brought by the contractor shall be judged by standards laid down in the relevant BIS specifications. All materials and articles brought by the contractor to the site for use shall conform to the



- samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work.
2. The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material/work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-Charge.
 3. BIS marked materials except otherwise specified shall be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/materials. Wherever BIS marked materials are brought to the site of work, the contractor shall if required, by the Engineer-in-Charge furnish manufacturers test certificate or test certificate from approved testing laboratory to establish that the material produced by the contractor for incorporation in the work satisfies the provisions of BIS codes relevant to the material and/or the work done.
 4. The contractor shall procure all the materials at least in advance so that there is sufficient time to testing and approving of the materials and clearance of the same before use in work.
 5. All materials brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.
 6. The contractor shall be fully responsible for the safe custody of the materials issued to him even if the materials are in double lock and key system.



ADDITIONAL TERMS AND CONDITIONS

1) Brief specification to be complied with and the various operations and maintenance activities to be carried out are indicated in the specification for compliance by the contractor -

I) An Inventory of all civil works, mechanical, electrical, electronics equipments and other instructions provided in the STP needs to be maintained.

II) Operation and maintenance for the STP including preventive maintenance schedule for each equipment. A step by step operation instruction shall be prepared and included in this operation and maintenance manual. The maintenance manual shall provide trouble shooting charts for each equipment, list of essential spares to be stocked for each equipment. One copy of this step operational procedure and a list of preventive maintenance schedule activities for each equipment shall be laminated & displayed in STP for guidance to operators.

III) Three sets of flow diagram showing all hydraulic levels, layout plan drawings of the treatment plant has to be prepared showing all treatment units, inter connecting pipe lines with sizes and their routing below ground level and roads and pathways marked in plan together with a brief write up explaining the treatment process. One set of these drawings have to be laminated and mounted on 12 mm thick ply wood board and displayed in Treatment plant in office room.

2) Functions and responsibilities of the contractor.

The contractor has the prime responsibility of efficiently operating and maintaining sewage treatment plant (STP) to conform to quality requirements shown below -

1	PH	6.5 to 9.0
2	Suspended solids	Below 1100 mg/l
3	BOD	Below 100 mg/l
4	COD	Below 250 mg/l
5	Oil & grease	Below 50 mg/l

6	Odour	Not objectionable
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To ensure the same the contractor has to organize and carry out the operation and maintenance works in a professional manner using best quality of treatment chemicals and deploying well-trained staff.

3) It is responsibility of the contractor to provide necessary supervisory staff and security staff to prevent entry of unauthorized persons and to ensure security of the STP and the plant and machinery against theft and other losses. The contractor should enclose the names of staff to be employed with qualification certificates, experience certificate and their passport size photographs affixing their signature. The staff to be employed shall be responsible for discharging treatment effluents for redistribution. The contractor is expected to employ reliable persons whose antecedents are properly verified.

4) The contractor has to organize training course in the STP site for all his staff. The course content shall include brief introduction the Technologies for waste water treatment and recycling the water, disinfection, preparation of chemical solution of required concentration and dosage, functioning of aeration tanks, operation and maintenance of aeration equipments air blowers, submersible pump sets, safety measures to be followed in sewage treatment plants, safety in handling machinery, and electrical equipments, maintenance of log books, preventive maintenance works to be carried out for major equipments etc. The training shall be conducted in the presence of Engineer in charge of IITI

5) STP has to be manned and operated round the clock with approved personnel in three shifts at eight hours working for each shift throughout the year.

6) The contractor should exhibit a duty chart in the plant office the persons on duty in each shift.



- 7) Operation of the STP has to be carried out as per the recommended procedure for each unit treatment process detailed operation and maintenance manual for the sewage treatment plant offered by him.
- 8) Preventive maintenance scheduled works have to be meticulously carried out at correct time intervals for all equipment.
- 9) Minor and major repairs to equipment's installed in the STP have to be carried out by the contractor during the O & M period of 1 year &. Any repairs to the pipe lines have to be, attended by the contractor. All such activities including spare parts changed for each equipment shall be documented in log books for each equipment.
- 10) The contractor has to operate and maintain the plant as recommended in the manual and maintain proper logs and records of the work carried out daily in each of the three shifts.
- 11) Contractor has to properly maintain all pump sets, liquid level control switches, all control valves and other on line instrumentation in good working condition.
- 12) The contractor has to keep and maintain all units of the treatment plant and its surroundings neat, clean and tidy.
- 13) The contractor shall maintain separate Log registers showing the following details. All the following registers shall be maintained by the head of the operating staff to be named by the contractor in writing to Engineer In charge-
 - i) Register showing the timings of operation of each plant machinery, all sewage and sludge pump-sets, aeration motors, backwashing of filters, submersible mixers, internal recycling pump-sets, chemical metering pump-sets, disinfection pump-sets, etc;



- ii) Separate registers showing the works done on preventive maintenance for each equipment should be maintained.
- iii) A separate register showing details of each occurrence of all break downs of equipments, date and time of occurrence of break down, reasons for break down, action taken to set right and date and time of restoration of the equipment back to normal working shall be maintained by the contractor. An attendance register shall be maintained where in all personnel working in each shift shall sign.
- iv) A separate register shall be maintained in which the daily consumption of each chemical used for treatment and disinfection of the waste water shall be recorded correctly showing the KG of each chemical used or liters of chemical solution used. Other registers required to be maintained as stipulated by the State Government Regulations with regard to the labour regulations, payment of EPF, ESI, safety of workmen, accidents register etc shall also be maintained by the contractor
- v) Mandatory regulations prescribed by the Government shall be followed by the contractor regarding labour and safety clauses which are already furnished in the tender, without any lapse, including those conditions, amended by these departments periodically.
- vi) The contractor should provide uniform, identification badges to all the staff and they should wear during working hours.
- vii) The contractor should ensure the treated effluent quality to be always conforming to the standard prescribed in the tender
- viii) Tools and tackles for the operation and maintenance should be provided by the Contractor.
- ix) All equipment, tools and plants supplied by the IITI If any, should be kept in good working condition and these should not be taken out of the premises without the written permission of the Engineer - in - charge.
- x) Contractor shall provide a Notice board detailing precautions to be taken by operation personnel in work conformity with Industries and labour regulations.



- xi) The materials should be properly stocked for easy verification and easily accessible for receiving and storing the fresh stock whenever they are supplied at site.
- xii) Printing of registers, log sheets and stationery required for the maintenance of records has to be arranged by the contractor at his cost.
- xiii) The contractor has to maintain basic cost records for all the direct and indirect expenditure and overheads on regular basis as prescribed by Engineer - in - charge.

14 On completion of the maintenance period, the, treatment plant has to be handed over to the IITI in good running condition. At the time of taking over by IITI all the equipment and accessories in the treatment plant will be inspected and if any defects are noticed, the same will have to be rectified to the original running condition and only after which the unit will be taken over.

15 The contractor should ensure that the team of operational staff would be available to operate the plant and equipments continuously even after completion of the Contract period till such time required by IITI on payment for the same.

16 Service contracts have to be arranged to be provided for all important equipments and machinery shown below by respective supplier or manufacturer of equipment machinery. All data shall are to be entered in the personal computer available for plant and separate files maintained for each Item of data"s stated below.

17 The contractor shall be responsible for the safety of all the plant equipment and entire plant.

18 To carry out the daily / periodical lubrication and checking oil levels and changing oils periodically etc., for smooth uninterrupted rolling of units, the necessary lubricants, grease, water etc., have to be supplied by the successful Tenderer / contractor and the cost for the same has to be included in the tender cost.



19 Periodical cleaning/brushing of launders, channels, walkways etc., at all the units of the plant will be carried out by the contractor and the entire plant premises shall be kept neat and clean. The contractor should attend to the general cleaning of the plant premises by sweeping, dusting and removal of the screenings, grit and excess sludge etc.

20 The contractor has to abide by various statutory acts of the MP state Government regarding facilities to be provided to the workmen, labour, staff employed under minimum wages act, workmen compensation act, factories act, ESI, PF ETC.

21 Sampling and testing of the influent and treated effluent:

The contractor shall submit fortnight test report from approved laboratory for parameters of concerned to confirm the performance of STP in accordance to the tender.

23 Quantity of influent and treated effluent to be recorded in each shift: Contractor shall maintain a daily record of total wastewater inflow, total treated wastewater recycled and the quantity of wastewater discharged.

24 Aeration of the influent:

The D.O level in the aeration tank should be maintained at a minimum level of 1.5 mg/l and should preferably be 2.0 mg/l.

25 Chemical Solution Dosing:

The clarified effluent shall be dosed with chemicals. The effluent shall be chlorinated for disinfection. The dosage of chlorine shall be fixed such that after a minimum contact period of half hour residual chlorine shall be present in the range of 0.1 to 0.2 mg/l. Residual chlorine tests shall be carried out during every shift daily with starch - iodide paper. The contractor shall submit fortnightly report on the treated water quality as per item 2 given above.



26 Preventive Maintenance Schedules:

- i) For all electrical motors, pumps, air blowers, diffused air membrane aeration system or any other mode of aeration system deployed, sluice valves, Motorized control center, transponders if any, chlorinating device and all other electrical and mechanical equipments, fixtures and fittings shall be subjected to preventive maintenance and for this a Computerized Planned Preventive Maintenance Schedule shall be got prepared by the Contractor and got approved by the Engineer-in-charge IIT Indore or the consultant of IIT Indore which shall be systematically practiced and implemented by the Contractor. All such preventive maintenance schedules carried out shall be entered in the computer file and also hard copies shall be submitted to the engineer-in-charge every month. A list of chemicals used per day and total chemicals used per month shall be supplied to the Engineer-in-charge IIT INDORE in the form of a spread sheet statement and the data recorded in computer file.
- ii) A statement showing all the actual hours of working of all electrical motors and the energy consumed for each motor and the total energy consumed per month shall be supplied to the Engineer-in-charge IIT INDORE.
- iii) A monthly spread sheet statement shall be submitted by the contractor showing the daily quantum of treated effluent supplied per day from the Sewage Treatment Plant to the Land. This data shall also be stored in computer file. The contractor shall take prior approval of Engineer-in-charge in writing for providing any damaged spare part for any equipment. An inventory of preventive maintenance and breakdown maintenance works carried out which necessitated changing of spare parts for any equipment shall be supplied every month by the contractor to the engineer-in-charge.
- iv) All necessary materials for the smooth operation of the plant and carrying out all maintenance works shall be provided by the contractor. At no time the running of plant

or other works such as cleaning, lubrication, lighting etc., should be hampered for want of materials.

v) Contractor has to maintain along with other data, finger print tests for daily routine operation. The contractor shall also submit fortnightly test report from approved laboratory and or NIT environmental engineering lab for parameters of concerned to confirm the performance of STP in accordance to the tender.

vi) Malperformance of STP shall result in levy of penalty. On such events the Contractor shall furnish a written explanation furnishing the causes and corrective measures taken to restore satisfactory performance of the plant. Such reports shall also be computerized and a hard copy submitted to the engineer-in charge. IIT INDORE may arrange for inspection of plant by an expert in wastewater treatment if need be to avoid such incidents and cost there of shall be recovered in monthly bill payable to Contractor.



भारतीय प्रौद्योगिकी संस्थान इंदौर

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To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of IIT Indore.

DRAFT INTEGRITY AGREEMENT

This integrity Agreement is made at _____ on this _____ day of 2015.

BETWEEN

The IIT Indore represented through Project in charge, **Infrastructure Development Office, IIT Indore** (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/Contractor” 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 IITI/ES/ MAINT/ STP/AMC/2019-20/30) (hereafter referred to as "Tender / Bid") and intends to award, under laid down organization procedure, contract for "Annual Contract for Operation & Maintenance of 650 KLD capacities Sewage Treatment Plant (STP) at IIT Indore."



भारतीय प्रौद्योगिकी संस्थान इंदौर

Indian Institute of Technology Indore

IDO

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)/Contractor(s)

- 1) It is required that each Bidder/Contractor (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)/Contractor(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)/Contractor(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



भारतीय प्रौद्योगिकी संस्थान इंदौर

Indian Institute of Technology Indore

IDO

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)/Contractor(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)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(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)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Contractor(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)/Contractor(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)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
 - 4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful 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)/Contractor(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)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

- 1) If the Bidder(s)/Contractor(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 contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor 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/Contractor.
- 3) Criminal Liability: If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor 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.



भारतीय प्रौद्योगिकी संस्थान इंदौर

Indian Institute of Technology Indore

IDO

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/Contractor as deemed fit by the Principal/ Owner.
- 3) If the Bidder/Contractor 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/Contractors/Subcontractors

- 1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/ sub-vendors.
- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- 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 Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, 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, IIT Indore.

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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 Contractor 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 or interpretation thereof shall not be subject to arbitration.



भारतीय प्रौद्योगिकी संस्थान इंदौर

Indian Institute of Technology Indore

IDO

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 Principa/Owner)

.....
(For and on behalf of Bidder/Contractor)

WITNESSES:

1.
(signature, name and address)

2.
(signature, name and address)

Place:

Dated :



BANK GUARANTEE BOND DRAFT

In consideration of the IIT Indore (hereinafter called "the Government") having agreed under the terms and conditions of agreement No. _____ dated _____ made between _____ and _____ (hereinafter called "the contractor(s)") _____ for the work _____ (hereinafter called "the said agreement") having agreed to production of a irrevocable Bank Guarantee for Rs. _____ (Rupees _____ only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement, we

(hereinafter referred to as "the Bank") hereby undertake to pay to the

(Indicate the name of the Bank)

Government an amount not exceeding Rs. _____ (Rs. _____ only) on demand by the Government.

2. We _____ do hereby undertake to pay the amounts due and payable

(Indicate the name of the Bank)

under this Guarantee without any demure, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ (Rupees _____ only).



भारतीय प्रौद्योगिकी संस्थान इंदौर

Indian Institute of Technology Indore

IDO

liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the government or any indulgence by the Government to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

7. We _____ lastly undertake not to revoke this guarantee except with

(Indicate the name of the Bank)

the previous consent of the Government in writing.

8. This guarantee shall be valid up to _____, unless extended on demand by Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. _____ (Rs. _____ only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated the _____ day of _____

for

(Indicate the name of the Bank)

	भारतीय प्रौद्योगिकी संस्थान इंदौर Indian Institute of Technology Indore	IDO
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Bill of Quantities

Comprehensive Maintenance and Operation contract including manpower, materials, chemicals, oil, spares etc. complete.

A) *Man power requirement –*

Sl. No	Description	1 st Shift	2 nd shift	3 rd shift	Gen shift	total	To be present
1.	Supervisor				1	1	08 hrs.
2.	Operator	1	1	1	1	4	24 hrs
3	Helper	1			1	2	08 hrs
4	Chemist				1	1	08 hrs
5	Engineer (Minimum) 1 visit per month also as and when required)						

B) *Chemical requirement: Please specify the quantity :*

Sl No	Description	Unit	Quantity per day
1	DAP	Kg	5
2	Sodium hypochlorite	Lit.	12
3	Urea	Kg	10

C) *Other LS Charges per month for repairs, maintenance, spares, oils, grease treated water sample testing, GST and all taxes etc. complete*