



आरोग्यम् सुख सम्पदा

## ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR

OFFICE OF  
THE EXECUTIVE ENGINEER  
PROJECT CELL AIIMS, RAIPUR

### **NOTICE INVITING e-TENDER**

**N.I.T. NO. 07/EE/AIIMS/RPR/2020-21**

**NAME OF WORK:-“CAMC of Sewage Treatment plant at AIIMS residential Campus,  
Kabir Nagar, Raipur.”**

**ESTIMATED COST: Rs. 15, 78,900.00**

**EARNEST MONEY: Rs. 31,600.00**

**CONTRACT PERIOD: 365 Days**

**Type of work- Maintenance**

*e-sign by Manoj Rastogi*  
**Executive Engineer (Civil)**  
**AIIMS, Raipur**

**INDEX**

**Name of Work: - “CAMC of Sewage Treatment plant at AIIMS residential Campus, Kabir Nagar, Raipur.”**

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## Instructions for Online Bid Submission

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at:

**<https://eprocure.gov.in/eprocure/app>.**

### **REGISTRATION:**

- 1) Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link "Online bidder Enrolment" on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

### **SEARCHING FOR TENDER DOCUMENTS:**

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

### **PREPARATION OF BIDS:**

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.

- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the Number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

#### **SUBMISSION OF BIDS:**

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- 7) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 8) The documents being submitted by the bidders would be encrypted using PKI encryption all techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized

persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key.

- 9) Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 10) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 11) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 12) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

**ASSISTANCE TO BIDDERS:**

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk number 0120-4200462, 0120-4001002.
- 3) For any further assistance, please contact to the office of Executive Engineer, AIIMS Raipur.

## ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR

### NOTICE INVITING e-TENDER

(a)	Name of Work	<b>"CAMC of Sewage Treatment plant at AIIMS residential Campus, Kabir Nagar, Raipur. "</b>
(b)	Tender No.	<b>07/EE/AIIMS/RPR/2020-21</b>
(c)	Contract Period	365 days
(d)	Estimated Cost	<b>Rs. 15,78,900.00</b>
(e)	Earnest Money Deposit( <b>Mandatory to submit EMD for participating in bid.</b> )	<b>Rs. 31,600.00(to be submitted in the form an account payee demand draft, fixed deposit receipt from a commercial bank, bank guarantee issued/ confirmed from any of the commercial bank in India in favour of AIIMS, Raipur in the office of Project Cell, AIIMS, Raipur before the last date of opening of Bid .)</b>
(f)	Performance Guarantee	5% of Tendered value.
(g)	Security Deposit	2.5% of the Tendered Value.
(h)	Tender documents may be seen on	AIIMS web site <a href="http://www.aiimsraipur.edu.in">www.aiimsraipur.edu.in</a> and CPPP site <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>
(j)	Last Date &Time of Submission	<b>By 27-05-2020 UP TO 11:00 Hours through online.</b>
(k)	Date & Time for opening of Technical Bid	On <b>28-05-2020</b> at 11:30 Hours.

1. The indenting Bidder must read the Terms & conditions carefully. He/ She should only submit bid if consider himself/herself eligible and bidder in possession of all the documents required.
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. The Bid documents consisting of specifications, the schedule of quantities of various types of items to be executed and the set of terms & conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website [www.aiimsraipur.edu.in](http://www.aiimsraipur.edu.in) Or <https://eprocure.gov.in/eprocure/app>.

**Executive Engineer (Civil)  
AIIMS, Raipur**

## INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING

The Executive Engineer (Civil), AIIMS, Raipur on behalf of Director, AIIMS, Raipur invites online **Percentage Rate bids in single bid system (Technical cum Eligibility & Financial)** from eligible and experienced contractors of appropriate list of CPWD, M.E.S., BSNL, Railway, Chhattisgarh State P.W.D. , specialised agency or ETP/STP/CETP operation and maintenance specialist approved by Ministry of Environment and under Green Skill Development Programme ( For Start Up ) from having successfully completed works of similar nature as per eligibility condition for the following work(s):-

Sl. No.	Description	Details
(a)	NIT No.	<b>07/EE/AIIMS/RPR/2020-21</b>
(b)	Name of Work:	<b>"CAMC of Sewage Treatment plant at AIIMS residential Campus, Kabir Nagar, Raipur."</b>
(c)	Estimated Cost	<b>Rs. 15,78,900.00</b>
(d)	Earnest Money(Mandatory to submit EMD for participating in bid.)	<b>Rs.31, 600.00 (EMD original to be submitted during Office hours before opening of Bid.)</b>
(e)	Period of Completion	<b>365 days</b>
(f)	Last Date & Time of Submission	<b>By 27-05-2020 UP TO 11:00 Hours through online.</b>
(g)	Date & Time for opening of Technical & financial Bid	<b>On 28-05-2020 at 11:30 Hours.</b>

- The intending bidder must read the terms and conditions of Tender document carefully. Bidder may submit bid having all required documents.
- Intending bidders shall have to register at CPPP portal to participate in the tendering process. For details kindly visit website <http://eprocure.gov.in/eprocure/app> or In case the bidder requires any elucidation regarding the tender documents, may contact to the office of Project Cell, AIIMS Raipur before the opening of tender date.
- For e-tendering of this tender, it may be downloaded from AIIMS Raipur website and Central Public Procurement Portal (CPPP) e-Procurement website.
- The intending bidders must have valid class-III digital signature to submit the bid. **Manual bid shall not be accepted in any circumstance.** The complete bidding process is online bidding; Bidder should have valid digital Signature Certificate (DSC) for online submission of bids.
- The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents, if any can be seen and downloaded from website <http://eprocure.gov.in/eprocure/app> free of cost.
- The bid can be submitted only after uploading the mandatory scanned documents up to 100 dpi Copies of eligibility documents and EMD as specified on the e-tendering website within the period of tender submission. Bidders can upload documents in the form of JPG format, PDF format and any other format as permissible by the e-tendering portal.
- Bidders must ensure to quote rate of each item. 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 bidder, rate of such item shall be treated as "0"(ZERO). After submission of the bid online the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.

8. After submission of bid online, it can be revised any number of times before specified time on last date of submission of bid. While submitting the revised bid, bidder can revise the rate of one or more item(s) any number of times (need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
9. Financial bids shall be opened online only for bidders for whom EMD and other uploaded documents are found in order and who are found to be eligible to bid for work. On opening date, the bidder can log in and see the bid opening process. After opening of bid he/she will receive the competitor bid sheets.
10. If the bidder is found ineligible after opening of technical cum eligibility and financial bid, bid shall become invalid.
11. **The Bidders shall have to submit original instrument for EMD (EMD released of any work will not be accepted again if earlier submitted in any case) before the last date of opening of TECHNICAL Cum Eligibility Bid to the office of Tender Opening Authority. The bid security is to remain valid for a period of 45 (forty-five) days beyond the final bid validity period. Bid security will be refunded to the successful bidder on receipt of a performance security. Bid securities of the unsuccessful bidders should be returned at the earliest after L1 decided by Committee of AIIMS Raipur.**

**A bidder's bid security will be forfeited if the bidder:**

- i) **withdraws or amends its/ his tender;**  
and
  - ii) **If the successful bidder fails to sign the contract or furnish the required performance security within the specified period.**
12. The Technical cum Eligibility bid shall be opened first on due date and time as mentioned above. Opening of financial bids of contractors qualifying the eligibility shall be opened at a later date.
  13. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criteria.
  14. **Performance Guarantee:** The successful contractor will be required to furnish a Performance guarantee of **5% (Five Percent)** of Tendered Value after receiving notification of award in the form of **an account payee demand draft, fixed deposit receipt from a commercial bank, bank guarantee issued/ confirmed from any of the commercial bank in India** in the name of the "All India Institute of Medical Sciences, Raipur" which shall be kept valid for a period of Six (06) months beyond completion of all the contractual obligations. The Performance Guarantee can be forfeited in the event of any breach or negligence or non-observance of any condition of contract or for unsatisfactory performance or non-observance of any condition of the contract. Performance Security will be released after successful completion of work under the contract. In case the contractor fails to deposit the said performance guarantee within the period including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with tender shall be returned after receiving the aforesaid performance guarantee.

#### **15. Sources and Verification of Bank Guarantees**

Bank Guarantee for Bid Security (EMD) or Performance Guarantee (Security Deposit) should be irrevocable and operative Bank Guarantee (BG) as per format enclosed in the Bid Document and should be issued by a Scheduled Commercial (i.e. Indian or Foreign Banks included in the Second Schedule of Reserve Bank of India Act, 1934 excluding Co-operative banks or Regional Rural Banks). In case of foreign bidders or in case of GTE, if Bank Guarantee is from a foreign bank branch situated outside India, the Bank Guarantee must be issued through any of the Scheduled Commercial Bank. In case BG is issued directly by a bank outside India, it should be executed on letter Head of the Bank and should be advised and made payable through their Indian Branch/Corresponding Bank in India. The Issuing Bank should also



state the name and designation of the next Higher Authority of the Officials who have issued the Bank Guarantee. Bank guarantees submitted by the tenderers/ contractors as EMD/ performance securities need to be immediately verified from the issuing bank **before acceptance**. There may not be any need to get the Bank Guarantee vetted from legal/ finance authority if it is in the specified format. Guidelines for verification of BGs submitted by the bidders/ contractors against EMD/ performance security/ advance payments and for various other purposes are as follows:

- i) BG shall be as per the prescribed formats;
- ii) The BG contains the name, designation and code number of the Bank officer(s) signing the guarantee(s);
- iii) The address and other details (including telephone no.) of the controlling officer of the bank are obtained from the branch of the bank issuing the BG (this should be included in all BGs). The confirmation from the issuing branch of the bank is obtained in writing through registered post/ speed post/ courier. The bank should be advised to confirm the issuance of the BGs specifically quoting the letter of Procurement Entity on the printed official letterhead of the bank indicating address and other details (including telephone nos.) of the bank and the name, designation and code number of the officer(s) confirming the issuance of the BG; Pending receipt of confirmation as above, confirmation can also be obtained with the help of responsible officer at the field office, which is close to the issuing branch of the bank, who should personally obtain the confirmation from issuing branch of the bank and forward the confirmation report to the concerned procurement entity.

16. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost, all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions.
17. The Tender paper/documents can be seen / downloaded from Official website & submitted through Online or Site.
18. The competent authority on behalf of the Director, AIIMS, Raipur does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.
19. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable to rejection.
20. The Competent Authority, The **Engineer-In-Charge**, reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
21. The contractor shall not be permitted to bid for works in the AIIMS, Raipur responsible for award and execution of contracts, in which his near relative is posted 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 gazette officer in the AIIMS, Raipur. Any breach of this condition by the

contractor would render him liable to be removed from the approved list of contractors of this Department.

22. The bid for the works shall remain open for acceptance for a period of **90 days** from the date of opening of bids.
23. This notice inviting bid shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of "The Notice Inviting bid, all the documents including additional conditions, specifications and drawings, GCC, if any, forming part of the bid as uploaded at the time of invitation of bid and rate quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

24. **Eligibility Criteria of Bidders:-**

**"The Similar work means providing "Maintenance of STP/ETP."**

- (a) Three similar works, each of value not less than 40% or Two similar works each of value not less than 60% or one similar work of 80% of estimated cost put to tender in last 07 (Seven) Years up to the date of receipt of tender. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 07% per annum, calculated from the date of completion to the last date of receipt of tender. **For startup no financial experience required.**
- (b) The Bidder should have registration with Employee Provident Fund (EPF) Commissioner and Employee State Insurance (ESI) Corporation.
- (c) The experience of similar work should be from **Central Govt., State Govt., PSU and Autonomous Body.**
- (d) Conditional Bids shall not be considered and will be out-rightly rejected at the very first instance.
- (e) **All eligible bidders meeting the eligibility can participate in the tender. The applicant should be a private or government-owned legal entity;**
- (f) **For package size exceeding certain values [say - Rs. 10 (ten) Crore], Joint Ventures may be allowed. Maximum number of partners in Joint Ventures shall be limited (say - three). In case of Joint Ventures, all the partners shall be jointly and severally liable for the successful completion of the work;**
- (g) **A firm that has been engaged by Ministry/ Department to provide consultancy services for the preparation or implementation of a project, and any of its affiliates (associates, Subsidiary, Joint Ventures partner), shall not be eligible for subsequently providing goods or works (other than a continuation of the firm's earlier consultancy services) for the same project;**
- (h) **A firm determined non-performing by the Procuring Entity shall not be eligible to bid during the period so determined;**
- (i) **The bidder must not have in his employment:**
- a) **The near relations (defined as first blood relations, and their spouses, of the bidder or the bidder's spouse) of persons involved in decision making in the procurement.**
  - b) **Without Government permission, any person who retired as gazetted officer within the last two years of the rank and from the departments.**
- (j) **Goods and services Tax (GST)**
- (i) **GST Registration Certificate of the State in which the work is to be taken up, if already obtained by the bidder.**
  - (ii) **If the bidder has not obtained GST registration in the State in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following under taking along with other bid documents.**
- "If work is awarded to me, I/we shall obtain GST registration Certificate of the State, in which work is to be taken up, within one month from the date of receipt of award letter or before release of any payment by AIIMS, whichever is earlier, failing which I/We shall**

be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by AIIMS or GST department in this regard.

**25. Signing of bid document :**

- a) If the bidder is an individual, the bid shall be signed by him above his full type written name and current address.
- b) If the bidder is a proprietary firm, the bid shall be signed by the proprietor above his full type written name and the full name of his firm with its current address.
- c) If the bidder is a firm in partnership, the bid shall be signed by all the partners of the firm above their full type written names and current addresses, or, alternatively, by a partner holding power of attorney for the firm. In the later case a certified copy of the power of attorney should accompany the application. In both cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.
- d) If the bidder is a limited company or a corporation, the bid shall be signed by a duly authorized person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The bidder should also furnish a copy of the Memorandum of Articles of Association duly attested by a Public Notary.

**26. In the bid documents the word / sentence shall be read as under :-**

- (i) **President of India – Director, AIIMS, Raipur or vice-versa.**
- (ii) **The terms Director General includes CPM/ADG region/ SDG PR Special Director General / Additional Director General and CPM/ Chief Engineer of the Zone - The terms Director General includes Director/Superintending Engineer/Executive Engineer, AIIMS, Raipur.**
- (iii) **CPWD – AIIMS, Raipur or vice versa.**

**27. Any dispute or difference arising out of this contract or in connection therewith which cannot be amicably settled between the parties shall be finally settled under the rules of council of Arbitration of India by one or more arbitrator appointed in accordance with the said rules. The arbitration shall take place at Raipur (Chhattisgarh) and the resulting award shall be final and binding upon the parties and shall be in lieu of any other remedy.**

**List of Mandatory Documents to be filled in by the bidders in various forms to be scanned and uploaded within the period of bid submission**

1	<b>EMD</b> in the form of <u>an account payee demand draft, fixed deposit receipt from a commercial bank, bank guarantee issued/ confirmed from any of the commercial bank in India</u> in the name of the "All India Institute of Medical Sciences, Raipur"
2	Enlistment Order for the Contractor
3	Work experience Certificates of similar work should be from Central Govt., State Govt., PSU and Autonomous Body refers under Eligibility Criteria.
4	Registration Certificate of EPFO & ESIC
5	Letter of transmittal (Annexure-A)
6	Vendor Details as per (Annexure-B)
7	Structure & Organization (Annexure-C)
8	Declaration by Bidder (Annexure-D)
9	Acknowledgement& Acceptance Letter (Annexure-F)
10	Consent Letter(Annexure-G)
11	GST Registration Certificate

**LETTER OF TRANSMITTAL**

From:

To

The Executive Engineer,

Project Cell, AIIMS, Raipur (C.G.)

**Subject:** *Submission of bids for the work of .....*

Sir,

Having examined the details given in the bid document for the above work, I/we hereby submit the relevant information.

1. I/we hereby certify that all the statement made and information supplied in the enclosed forms A to G and accompanying statement are true and correct.
2. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I/we authorize Engineer-In-Charge or his representative to approach individuals, employers, firms and corporation to verify our competence and general reputation.

**Certificate: It is certified that the information given in the enclosed eligibility bid are correct. It is also certified that I / We shall be liable to be debarred, disqualified / cancellation of enlistment in case any information furnished by me / us is found to be incorrect.**

Enclosures:

Date of submission:

Signature(s) of Bidder(s).

Seal of bidder

**FORM FOR DETAILED INFORMATION BY BIDDER (Vendor Details)**

1.	Name of the Bidder	
2.	Permanent Account No (PAN)	
3.	Particulars of Bank Account	
	a) Name of the Bank	
	b) Name of the Branch	
	c) Branch Code	
	d) Address	
	e) City Name	
	f) Telephone No	
4.	Legal status of the bidder (attach copies of original document defining the legal	
	a) An Individual	
	b) A proprietary firm	
	c) A firm in partnership	
	d) A limited company or Corporation	
5.	GST Registration Certificate No	
6.	Valid Email ID of the Bidder	
7.	Complete Postal Address of the bidder	

**(Authorized Signature of the Bidder with Seal)**

**STRUCTURE & ORGANISATION**

1. (a) Name  
(b) Address of the bidder
2. (a) Telephone no.  
(b) Telex no.  
(c) Fax no.  
(d) E-mail
3. Legal status of the bidder (attach copies of original document defining the legal status)
  - (a) An Individual
  - (b) A proprietary firm
  - (c) A firm in partnership
  - (d) A limited company or Corporation
4. Particulars of registration with various Government Bodies if any (attach attested photocopy)

**Organization/Place of registration**

**Registration No.**

- 1.
  - 2.
  - 3.
5. Names and titles of Directors & Officers with designation to be concerned with this work.

**Signature of Bidder(s)**

**DECLARATION**

It is to certify that:

- 1) I/We agree with the terms and conditions of it and understood that it will form part of the agreement.
- 2) I hereby certify that none of my Relative(s) are employed in AIIMS Raipur, Chhattisgarh. In case at any stage, it is found that the information given by me is false/incorrect, AIIMS shall have the absolute right to take any action as deemed fit without any prior intimation to me”.
- 3) I/We undertake and confirm that eligible Work(s) has/have not been got executed through another contractor on back to back basis. Further, it is stated that, if such a violation comes to the notice of Department, than I/We shall be debarred for bidding in AIIMS in future forever. Also, if such a violation comes to the notice of AIIMS, Raipur before date of start of work, the Engineer-In-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.
- 4) I / We have signed (with stamp) uploaded documents of the tender before submitting the same.
- 5) All the information and documents given/ uploaded for bids are true.
- 6) I / We have submitted the EMD.
- 7) I / We have provided our e-Mail id for any communication in this regard.
- 8) I have read carefully & understood the important instructions to the all bidders.

Date.....

E-Mail: \_\_\_\_\_

Contractor

(Sign with Seal)

**INTEGRITY PACT**

To,

Sub: NIT No. **07/EE/AIIMS/RPR/2020-21 for the work of “CAMC of Sewage Treatment plant at AIIMS residential Campus, Kabir Nagar, Raipur.”**

Dear Sir,

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

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

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

Yours faithfully,

Executive Engineer

Project Cell, AIIMS Raipur



**Acknowledgement & Acceptance Letter**

To,

The Executive Engineer,

Project Cell, AIIMS Raipur

Sub: Submission of Tender for the work **“CAMC of Sewage Treatment plant at AIIMS residential Campus, Kabir Nagar, Raipur..”**

Dear Sir,

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

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

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

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

Yours faithfully

**(Duly authorized signatory of the Bidder)**

**CONSENT LETTER**

I/We hereby give my/ our consent to work as contractor till the completion of work and I/we will be responsible for execution of work only by skilled persons in the field of **related work** as per satisfaction of Engineer-In-Charge.

I/We will produce computerized measurement sheets of work before covering hidden work / job and other exposed works in time as per **clause 6** otherwise measurement will be recorded by the representative of Engineer-In-Charge which will be bound to me and I/We am/are agree to made recovery of amount as per **clause 32** of GCC for each running and final bill for not producing measurement and bill. Final measurement with bill will be produced by me/us within one month after completion date otherwise representative of Engineer-In-Charge will prepare the same which will be acceptable and bound to me/us and no any claim in this regard will be made by me/us.

I/We will provide all invoices and related test certificates of materials as required by E-In-C. All Analysis of rates for Extra, Substitute, Deviation items etc. will be produced by me/us in consultation with representative of Engineer-In- Charge on time for getting approval from Competent Authority of AIIMS before execution of work or otherwise the same will be prepared by the department and will be bound to me/us.

I/We will submit Pay Roll and Fort Night Labour Report with every bill duly certified by Junior Engineer. I will pay all the wages to the workers in bank account otherwise necessary action will be taken with penalty as decided by Engineer-In-Charge and is bound to me/ us. I/We will maintain all the registers etc. as mentioned in General Condition of Contract for workers and employees. The registers will be presented to Junior Engineer for verification from time to time.

I/we will also engage suitable and skill Engineer(s) for the work as per condition of work.

I further certify that the above particulars pertaining to me are correct.

I/We will produce all uploaded documents in original for physical verification before issue of Letter of Acceptance or / and as demanded by Engineer-In Charge before the payment .

I/We will submit "No Claim Certificate" in the approved format in company letter head after receiving final bill payment.

**Signature of contractor**

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

**INTEGRITY AGREEMENT**

This Integrity Agreement is made at ..... on this ..... day of ..... 2019

**BETWEEN**

AIIMS Raipur through Executive Engineer, ..... ,  
(Name of Division)

AIIMS, ..... , (Hereinafter referred as the  
(Address of Division)

'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 e-Tender (**NIT No.07/EE/AIIMS/RPR/2020-21**) (hereinafter referred to as "**Tender/Bid**") and intends to award, under laid down organizational procedure, contract for "**CAMC of Sewage Treatment plant at AIIMS residential Campus, Kabir Nagar, Raipur..**" Hereinafter referred to as the "**Contract**".

AND WHEREAS the Principal / Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "**Integrity Pact**" or "**Pact**"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

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

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

- 1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
  - (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

- (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
- (c) The Principal / Owner shall endeavor 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 order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.

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.

- b) 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.
- c) 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.
- d) The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose (with each tender as per Performa

enclosed) 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 Indian Penal code (IPC)/Prevention of Corruption Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

**Article 4: Previous Transgression**

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holding 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 Sub- contractors/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, AIIMS Raipur.

**Article 7- Other Provisions**

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the **Headquarters 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 intentions.
- 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** there of shall not be subject to arbitration.

**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 / Contract documents with regard any of the provisions covered under this Integrity Pact.

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

(For and on behalf of Principal/ Owner)

(For and on behalf of Bidder/ Contractor)

WITNESSES:

1. . ..... (Signature, name and address)
2. . ..... (Signature, name and address)

Place:-

Dated:

ALL INDIA INSTITUTE OF MEDICAL SCIENCE RAIPUR  
Percentage Rate Tender/ ~~Item Rate Tender~~ & Contract for Works

Tender for the work of : **“CAMC of Sewage Treatment plant at AIIMS residential Campus, Kabir Nagar, Raipur.”**

e- T E N D E R

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

I/We hereby tender for the execution of the work specified for the AIIMS Raipur 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.

I/We agree to keep the tender open for **ninety (90) days** from the due date of opening of financial bid and not to make any modification in its terms and conditions.

A sum of **Rs. 31,600.00/-** is hereby forwarded in Receipt Treasury Challan/ Deposit at Call Receipt of a Scheduled Bank/ Fixed Deposit Receipts of a Scheduled Bank/ Demand Draft of a Scheduled Bank/ Bank Guarantee issued by a Scheduled Bank as earnest money. A copy of the earnest money in Receipt Treasury Challan/ Deposit at Call Receipt of a Scheduled Bank/ Fixed Deposit Receipts of a Scheduled Bank/ Demand Draft of a Scheduled Bank/ Bank Guarantee issued by a Scheduled Bank is submitted with tender. If I/We, fail to furnish the prescribed performance guarantee within prescribed tender, I/we agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the General Conditions of Contracts (CPWD). Further, I/we agree that in case of forfeiture of earnest money or 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 AIIMS Raipur 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 Deposited / 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 #.....

Signature of Contractor#  
Postal Address#

Witness : #  
Address: #  
Occupation : #

e-Mail id#

# To be filled in by the contractor/witness as applicable

**ACCEPTANCE**

The above tender (as modified vide letters mentioned hereunder) is accepted by me for and on behalf of the AIIMS Raipur for a sum of ₹. \_\_\_\_\_

(Rupees \_\_\_\_\_)

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

- a) \_\_\_\_\_ \*
- b) \_\_\_\_\_
- c) \_\_\_\_\_

For & on behalf of the AIIMS Raipur.

Signature.....

Designation.....

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

### **ADDITIONAL CONDITIONS OF CONTRACT**

1. Unless otherwise specified, the agreement rates for all items of work of the schedule of quantities are for all heights, depths, leads and lifts involved in the execution of work.
2. Other agencies working at site will also simultaneously execute the work entrusted to them and the contractor shall offer necessary co-operation wherever required to other agencies.
3. On account of security consideration, there could be some restrictions on the working hours, movement of vehicles for transportation of materials. The contractor shall be bound to follow all such restrictions and adjust the program for execution accordingly, for which nothing extra shall be paid.
4. The work shall be carried out in a manner complying in all respects with the requirements of relevant bye laws of the local bodies, Labour Laws, minimum wages act, workmen compensation act and other statutory laws enacted by Central Govt. as well as State Govt.
5. **Logbook for pump set shall be maintained in proper form and shall be kept up to date. It should be duly signed by the contractor's staff in order to keep proper monitoring. The instruction of the Engineer In-Charge or his representatives shall be recorded in the log book.**
6. **No residential accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall not be allowed to erect any temporary set up for staff in the campus.**
7. No claims of the labours shall be entertained by the Department including that of providing employment, regularization of services etc.
8. **Complaint register, attendance register and other records will have to be maintained and produced either daily according to the requirement or when asked to do so by the Engineer-in-charge or his authorized representative.**
9. **The cost of Sundry material like Soap, duster, dhoti, cotton, waste and log book, uniform and shoes & badges has to be borne by contractor.**
10. The contractor will have to arrange all such registers/stationery etc. Nothing extra shall be paid on this account.
11. The personnel and labourers engaged by the contractor under this contract shall wear neat and clean uniforms. An identity card duly countersigned by Engineer-in-charge shall be issued to each personnel by the contractor to have proper identifications. The character and antecedents of the staff employed by the contractor shall be got verified from the police by the contractor.
12. The contractor must have registration with Employee's Provident Fund commission and Employee's state Insurance Corporation for safe guarding interest of his workmen. He shall obtain all other necessary approvals from statutory bodies as per law in vogue.
13. All T&P, scaffoldings, ladders/Hydra etc., instruments/meters for maintenance, consumable and Contingent Articles required for execution of the work shall be arranged by the contractor and it is deemed to be inclusive of contractor rate.
14. **Staff employed by the contractor should be well behaved, Polite & courteous. Any complaint against staff on behavior should be taken very seriously and such staff should be removed by the contractor immediately from the site and replacement shall be provided immediately.**
15. The contractor shall make all safety arrangement required for the labour engaged by him at his own cost. All consequences due to negligence or due to lapse of security/safety or otherwise shall remain with the contractor. The department shall not be responsible for any mishap, injury, accident or death of the contractor's staff. No claim in this regard shall be entertained / accepted by the department. Also Contractor is responsible to the damage caused to any man/material other than his team during execution and AIIMS will not be responsible for that.
16. Contractor shall be fully responsible for any damages caused to govt. property or allotter's property by his or his labour in carrying out the work and shall be rectified by the contractor at his own cost.
17. GST and other Taxes as applicable shall be recovered/ paid from the contractor's bill as per Govt. of India/AIIMS Rules.

18. Required Space is available for sitting arrangement the agency has to maintain minimum 01 table & 2 chair for sitting arrangement in STP.
19. The agency shall restore back the premises and other articles provided at the time of closure of the contract by the agency.
20. Sample of treated water should be collected in presence of JE/AE duly and sample water lab Test as **per IS code** should be done monthly and the report should be submitted to department every month.
21. **The contractor will maintain biometric attendance records of the workers/employees.** In case of absence of any staff from duty without providing suitable replacement, the consequential cost of the labour shall be recovered from the contractor and the contractor will have no claim from the department.
22. **Maintenance will be as per guidelines of Ministry of Environment, Forest and climate change and at least one technical person to be deployed by the agency who has successfully completed the course in ETP/STP/CETP Operation and Maintenance (Level-6 of NSQF).**

## **STP O&M SCOPE OF WORK**

Agency will provide the following services for the operation and General maintenance with necessary housekeeping for the following plant.

### **ACTIVITIES FOR STP**

- The Plant will run in 24x7days.
- Day to day housekeeping of STP & near by approx. 10 metre area.
- Regular checking of inlet, outlet and various inter stage parameters as required for a smooth and reliable operation of the sewage treatment plant.
- Testing of critical parameter like pH, Free Residual Chlorine, MLSS to ensure desired water quality at outlet as per frequency.
- **All measures will be taken to operate the plant satisfactory as per environmental pollution control board norms.**
- **Sample of treated water should be collected in presence of JE/AE duly signed at register and sample water lab test should be done monthly and the report should be submitted to office every month.**
  
- All chemical solution will be prepared by our operator.
- Regular back wash and rinsing of Multi-grade filter, Activated carbon filter & other process unit.
- Regular cleaning of bar screen & Oil grease Trap.
- Providing safety shoes and other safety related equipment and accessories (PPE) as required to all the operating staff deputed for O & M in the plant.
- Providing tool box to maintain and operate the electro-mechanical equipment of the plant.
- Checking parameter like Colour, Odour, and any other parameters required for the smooth operation of the plant and take corrective measures in case of any deterioration of these parameter daily.
- We will undertake regular preventive maintenance of the mechanical, equipments as pumps, valves and take corrective action whenever required for the smooth operation of STP & monthly report will be submitted.
- Provide adequate Information for required spare parts, etc. to client well in advance if it is not in scope of agency.
  
- Maintaining all sorts of daily records as per the requirements such as log sheets of the systems, performance sheet of the system, chemical consumption records, electrical consumption record, breakdown cycle etc. to minimize the downtime and enhance the performance of entire system. Plant operation / Shut down recording should be maintained at site.
  
- **Painting of corroded MS pipes structure etc. as and when required.**

Smooth Operating Procedure of STP (MBBR)OPERATING PROCESS PARAMETERS & CONDITIONS

The procedures enumerated in the preceding chapters are to be strictly followed in order to get the best performance from the Sewage Treatment Plant. The parameters that require monitoring are rate of flow, TSS and BOD.

OPERATING PARAMETERS & CONDITIONS

Capacity of STP	:	500KLD
Rate of Flow		
Total combined Solids	:	25m <sup>3</sup> /hr Total Suspend Solids
TSS as inlet STP	:	250mg/l
TSS at final discharge	:	<10mg/l

BOD

BOD at inlet to Bar Screen	:	350mg/l
BOD at final discharge	:	<20mg/l

**Note: Above guideline is indicative, OEM/environmental guidelines should be followed.**

## MONITORING OF PROCESS PARAMETERS

### REGULAR MONITORING

Regular monitoring BOD & TSS of treated should be done.

### WEEKLY MONITORING

Measurement of MLSS

Measurement of MLSS has to be regularly during the commissioning period. The procedure for both the parameters is same. MLSS is the measurement of suspended solids present in the Aeration. Tank and it is an indicator of the amount of bacteria present. This should be done a week and the result should be calibrated with sludge corresponding to 2000-2500mg/l (i.e., around 20-25 ml of sample)

### SAFETY MEASURES FOR O & M OF THE PLANT

#### GENERAL SAFETY MEASURES

The Operator in a Sewage Treatment Plant should be capable of handling any hazards arising from injuries from falls, deaths from drawing and asphyxiation etc.

The following safety measures should be taken for proper operation & maintenance of the Plant.

- a) Narrow walks/ steps over tanks, ladder and spiral staircases are potential danger spots where the operator should be alert.
- b) Over exertion during operation of valves, moving weights and performing other tasks should be avoided.
- c) All open tanks should be provided with guard rails to prevent accidental falls.
- d) Glass part as well as moving parts should be protected by screen or guards.
- e) Adequate lighting within the plant and around the plant should be provided which gives better working facility reducing accidents on slipping etc.
- f) Covered tanks, wet well or pits should be well ventilated. Before entering into the above wells/ tanks, they should be kept open for sufficient time or preferably forced ventilate as they present problems of asphyxiation.
- g) A first-aid kit should be available readily at hand.

- h) Exposure to ultraviolet light can cause serious burn to unproved eyes, skin. Wear eyes and skin protector.
- i) Fire extinguishers of the proper type should be located at strategic points and maintained in good condition at all times by testing them. All staff should be trained in rendering first aid and operating fire extinguishing equipment.
- j) All workers should be completed to observe personal, hygiene such as washing with soap after as well washing before taking food. The use of antiseptics along with washing should be emphasized.

#### ALIGNMENT

The important of alignment of each part of the units cannot be over emphasized. The alignment of all drives and matching part like motors, bearings, shafts, couplings etc. will have to be carefully checked with the required instruments. Any misalignments can lead to repaid wear and tear.

#### LUBRICATION

Lubrication should be done as per the recommendation of the individual manufacturers so as to ensure free and smooth movement of all matching parts. The periodicity of lubrication should be noted and arrangements made to do the lubrication at the right time. Failure to do this can to more wear and tear, noise and eventual of the part. A suitable lubrication chart should be prepared and hung in the plant room for ready reference.

#### ELECTRICAL CONNECTION

Cabling and control wiring should be properly drawn as per the relevant IS standards. All efforts should be made to prevent short circuit. Earthing should be done properly to prevent excess withdrawal of power due to line losses. The individual starters and motors should be checked for proper functioning. All over load relay settings of the MCC should be checked as per the motor over load current and maintenance twice a year. Connect the level switch as per Manufacturer's Manual attached.

#### ALL PUMPS

- Checked oil level in motor & pump periodically.
- Check the direction of rotation of pump before startup. The impeller should rotate in the clockwise direction. Also check for smoothness and noise, if any.
- Ensure that all electrical connections have been made properly.
- Check to see whether pump is giving the desired head.
- Check to see whether pumps are giving desired out put. If not, check for any obstruction.
- Check for any leakage, abnormal sounds, head etc, and rectify as required.

## Working schedule STP operation

S.No.	Daily work
1	maintaining necessary registers
2	checking of oil levels of all equipment
3	Course screen chamber cleaning
	<b>Weekly Work</b>
1	Oiling and greasing of bearings and gears of mechanical equipment's
2	Removing Grit in grit chamber, Bar screen chamber and transporting every week
	<b>Monthly work</b>
1	checking of nuts and Bolts of equipment's tightening of all nuts and Bolts of equipment's
2	Raw sewage sump cleaning at sump side walls & bottom
3	cleaning side walls up to free board
4	Secondary clarifier/Sludge sump Cleaning of clarifier & sludge sump in a month by removing settled mass
	<b>Quarterly Work</b>
1	PCB certificate for the effluent, Aeration chamber, and treated water to be in conformity to the standards
2	replacement of Gear oil and lubricants as necessary verification of section bearings, gears, motor winding, oil condition of Transformer, installation terminals of cable connections
3	Sludge dry beds Collection of sludge and storing after drying
	<b>Half Yearly Work</b>
1	Aeration tank Cleaning of side walls and bottom removing of settled mass.
	<b>Yearly Work</b>
1	De-silting of manholes, inlet pipes, gate valves at inlet works.



## Form of Earnest Money Deposit

### (Bank Guarantee Bond)

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

KNOW ALL PEOPLE by these presents that we ..... (name of bank) having our registered office at ..... (hereinafter called "the Bank") are bound unto ..... (Name and division of Executive Engineer) (hereinafter called "the Engineer-in-Charge") in the sum of Rs. .... (Rs. in words .....) for which payment well and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and assigns by these presents.

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

- (1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;
- (2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:
  - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required; OR
  - (b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor,

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

This Guarantee will remain in force up to and including the date\* ..... after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE .....SIGNATURE OF THE BANK

WITNESS .....

SEAL (SIGNATURE, NAME AND ADDRESS)

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

**FORM OF PERFORMANCE GUARANTEE BANK GUARANTEE**

(On a stamp paper of appropriate value from any Nationalized Bank or Scheduled Bank)

To  
Executive Engineer,  
AIIMS RAIPUR,  
TATIBANDH,  
RAIPUR – 492099

Dear Sir,

In consideration of the AIIMS RAIPUR, having offered to accept the terms and conditions of the proposed agreement between..... &M/S\_\_\_\_\_ (hereinafter referred to as "the said Contractor (s)", which expression shall include his successor and assignees) for the work of \_\_\_\_\_ Contract No \_\_\_\_\_ in terms inter alia, of the \_\_\_\_\_ Letter No. \_\_\_\_\_ dated \_\_\_\_\_ and the General Conditions of Contract and upon the condition of the Contractor's furnishing Security for the performance of the Contractor's obligations and discharge of the Contractor's liability under and in connection with the said Contract upto a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) amounting to \_\_\_\_\_ percent of the total Contract value.

- 1 We, \_\_\_\_\_ (hereinafter called 'The Bank' which expression shall include its successors and assignees) hereby jointly and severally undertake to guarantee the payment to the Employer in rupees forthwith on demand in writing and without protest or demur or any and all moneys payable by the Contractor to the Employer in respect of or in connection with the said Contract inclusive of all the Employer's losses and damages and costs, (inclusive between attorney and client) charges and expenses and other moneys payable in respect of the above as specified in any notice of demand made by the Employer to the Bank with reference to this guarantee upto an aggregate limit of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only).
- 2 We \_\_\_\_\_ Bank Ltd. further agree that the Employer shall be sole judge of and as to whether the said Contractor has committed any breach or breaches of any of the terms and conditions of the said Contract and the extent of loss, damage, cost, charges and expenses caused to or suffered by or that may be caused to or suffered by the Employer on account thereof and the decision of the Employer that the said Contractor has committed such breach or breaches and as to the amount or amounts of loss, damage, costs, charges and expenses caused to or suffered by the Employer from time to time shall be final and binding on us.
- 3 The Employer shall be at liberty without reference to the Bank and without affecting the full liability of the Bank hereunder to take any other Security in respect of the Contractor's obligations and liabilities hereunder or to vary the Contract or the work to be done there under vis-a-vis the Contractor or to grant time or indulgence to the Contractor or to reduce or to increase or otherwise vary the prices of the total Contract value or to release or to forbear from enforcement of all or any of the Security and/or any other Security(ies) now or hereafter held by The Employer and no such dealing(s) reduction(s) increase(s) or other indulgence(s) or arrangements with the

Contractor or release or forbearance whatsoever shall absolve the bank of the full liability to the Employer hereunder or prejudice the rights of the Employer against the bank.

- 4 This guarantee shall not be determined or affected by the liquidation or winding up, dissolution, or change of constitution or insolvency of the Contractor but shall in all respects and for all purposes be binding and operative until payment of all monies payable to the Employer in terms thereof.
- 5 The bank hereby waives all rights at any time inconsistent with the terms of this guarantee and the obligations of the Bank in terms hereof shall not be anywise affected or suspended by reason of any dispute or disputes having been raised by the Contractor stopping or preventing or purporting to stop or prevent any payment by the Bank to the Employer in terms hereof.
- 6 The amount stated in any notice of demand addressed by the Employer to the Bank as liable to be paid to the Employer by the Contractor or as suffered or incurred by the Employer on account of any losses or damages or costs, charges and/or expenses shall be conclusive evidence of the amount so liable to be paid to the Employer or suffered or incurred by the Employer as the case may be and shall be payable by the Bank to The Employer in terms hereof.
- 7 This guarantee shall be a continuing guarantee and shall remain valid and irrevocable for all claims of the Employer and liabilities of the Contractor arising upto and until midnight of \_\_\_\_\_.
- 8 This guarantee is valid till \_\_\_\_\_ (date to be mentioned) (Sixty days beyond the stipulated date of completion or the extended period, thereof)
- 9 This guarantee shall be in addition to any other guarantee or Security whatsoever that the Employer may now or at any time anywise may have in relation to the Contractor's obligations/or liabilities under and/or in connection with the said Contract, and the Employer shall have full authority to have recourse to or enforce this Security in preference to any other guarantee or Security which the Employer may have or obtain and no forbearance on the part of the Employer in enforcing or requiring enforcement of any other Security shall have the effect of releasing the Bank from its full liability hereunder.
- 10 It shall not be necessary for the Employer to proceed against the said Contractor before proceeding against the Bank and the Guarantee herein contained shall be enforceable against the Bank notwithstanding that any Security which The Employer may have obtained or obtain from the Contractor shall at the time when proceedings are taken against the said bank hereunder be outstanding or unrealized.
- 11 We, the said Bank undertake not to revoke this guarantee during its currency except with the consent of the Employer in writing and agree that any change in the constitution of the said Contractor or the said bank shall not discharge our liability hereunder.
- 12 We \_\_\_\_\_ the said Bank further that we shall pay forthwith the amount stated in the notice of demand notwithstanding any dispute/difference pending between the parties before the arbitrator and/or that any dispute is being referred to arbitration.
- 13 Notwithstanding anything contained herein above, our liability under this guarantee shall be restricted to Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) and this guarantee shall remain in force till \_\_\_\_\_ and unless a claim is made on us within 3 months from that date, that is before \_\_\_\_\_ all the claims under this guarantee shall be forfeited and we shall be relieved of and discharged from our liabilities there under.

Dated \_\_\_\_\_ day of \_\_\_\_\_ 20

For and on behalf of Bank.

Issued under seal

## SPECIAL CONDITIONS OF CONTRACT

### **1. GENERAL**

- 1.1 Wherever any reference to any Indian Standard Specifications of BIS or other International standards of ASTM / BS/EN occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued there-to or revisions thereof, if any, up to the date of receipt of tenders.
- 1.2 The contractor shall work according to the programme of work as approved by the Engineer-in-charge, for which purpose, the contractor shall submit a programme of the work within 07 days from the stipulated date of start of the work based on computer software and shall update the same every fortnight.
- 1.3 The contractor shall take instructions from the Engineer-in-charge for stacking of materials at site. No excavated earth or building materials shall be stacked on areas where the buildings, roads, services or compound walls are to be constructed.
- 1.4 If as per Municipal or prevailing rules of the secured campuses owned by paramilitary forces, Institutions etc, the huts for labour are not to be erected at the site of work by the contractors, the contractors shall provide such accommodation at such locations as are acceptable to local bodies with all provisions concerning labour safety & sanitation as contained in the relevant clause of the contract, for which nothing shall be payable.
- 1.5 Unless otherwise provided in the Schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing shall be payable to him on this account.
- 1.6 The working drawings appearing at para 8.1(iii) of conditions of contract in the form CPWD-7/8, shall mean to include both architectural and structural drawings respectively. The structural and architectural drawings shall be properly correlated before executing the work. In case of any difference noticed between architectural and structural drawings, final decision, in writing of the Engineer-in-charge shall be obtained by the contractor before proceeding further.
- 1.7 Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restriction / instructions including issue of identity cards to all persons authorized by him to do work / visit the work site and nothing shall be payable on this account.
- 1.8 The contractor shall make his own arrangements for obtaining electric connections, if required, and make necessary payments directly to the department concerned.
- 1.9 The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor (s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed, so as not to interfere with the operations of other contractors, or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of Engineer-in-Charge. The contractor shall be responsible for any damage due to hindrance caused by him.
- 1.10 Cast iron pipes and fittings without ear shall be used. However, pipes and fittings with ears may be accepted without any extra payment. In such cases, clamps are not required and no extra payment shall be made for fixing the pipes in a different manner.
- 1.11 Any cement slurry added over base surface for bond or for continuation of concreting, for protecting reinforcement bars, its cost shall be deemed to have been included in the respective items, unless specified otherwise and nothing extra shall be payable nor extra cement shall be considered in the cement consumption on this account.
- 1.12 Stacking of materials and excavated earth including its disposal shall be done as per the directions of the Engineer-in-Charge. Double handling of materials or excavated earth if required at any stage shall have to be done by the contractor at his own cost.
- 1.13 No claim for idle establishment & labour, machinery & equipment, tools & plants and the like, for any reason whatsoever, shall be admissible during the execution of work as well as after its completion.

- 1.14 Only Star headed Stainless Steel screws shall be used unless otherwise specified.
- 1.15 Work shall be carried out in professional manner with finished product serving the intended purpose with specified strength, durability and aesthetics.
- 1.16 Work activities shall be executed in well thought out sequences such that consequent activities not adversely affecting previously done work. Nothing extra shall be payable to protect the works already done.
- 1.17 The contractor shall prepare all the needed shop drawings well in advance and get them approved before placing the order and execution of the item.
- 1.18 The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge may require for collecting, and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Engineer - in -Charge and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications.

## **2. RATES**

- 2.1 The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work, profile, setting lay out on ground, establishment of reference bench mark(s), installing various signage, taking spot levels, survey with total station, construction of all safety and protection devices, compulsory use of helmet and safety shoes, and other appropriate safety gadgets by workers, imparting continuous training for all the workers, barriers, preparatory works, construction of clean, hygienic and well ventilated workers housings in sufficient numbers as per drawing supplied by Engineer in charge, working during monsoon or odd season, working beyond normal hours, working at all depths, height, lead, lift, levels and location etc. and any other unforeseen but essential incidental works required to complete this work. Nothing extra shall be payable on this account and no extension of time for completion of work shall be granted on these accounts.
- 2.2 The rates quoted by the bidder, shall be firm and inclusive of all taxes and levies.
- 2.3 No foreign exchange shall be made available by the Department for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.
- 2.4 All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp required to be made for working at the basement level, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery, material yard, cement & other storage, fabrication yard, site laboratory, water tank etc.
- 2.5 For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, not with-standing the fact that the Contractor may have to pay extra amounts for any reason, to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.
- 2.6 All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

## **3. CLEANLINESS OF SITE**

The Contractor shall not stack building material / malba / muck/ rubbish on the land or road of the local development authority or on the land owned by the others, as the case may be. So the muck, rubbish etc. shall be removed periodically as directed by the Engineer-in-Charge, from the site of work to the approved dumping grounds as per the local byelaws and regulations of the concerned authorities and all necessary permissions in this regard from the local bodies shall be obtained by the Contractor. Nothing extra shall be payable on this account. In case, the Contractor is found stacking the building material / malba as stated above, the Contractor shall be liable to pay the stacking charges / penalty as may be levied by the local body or any other authority and also to face penal action as per the rules, regulations and bye-laws of such body or authority. The Engineer –in-Charge shall be at liberty to recover, such sums due but not paid to the concerned authorities on the above counts, from any sums due to the Contractor including amount of the Security Deposit and performance guarantee in respect of this contract agreement.

#### **4. INSPECTION OF WORK**

In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by the Engineer-In-Charge, AIIMS Raipur and other senior officers of AIIMS Raipur and his authorized representative. The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineer-in-Charge or other officers as stated above to visit the works shall have been given to the Contractor, either himself be present to receive the orders and instructions or have a responsible Site Engineer duly accredited in writing, to be present for that purpose Senior Officers of AIIMS Raipur Authorities shall also be inspecting the on-going work at site at any time with or without prior intimation.

#### **5. CO-OPERATION WITH OTHER CONTRACTORS/SPECIALIZED AGENCIES / SUB - CONTRACTORS**

5.1 The Contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants of the adjacent properties and to the public in general .The Contractor shall take all care, as not to damage any other adjacent property or other services running adjacent to the plot. If any damage is done, the same shall be made good by the Contractor at his own cost and to the entire satisfaction of the Engineer-in-Charge. The Contractor shall use such methodology and equipments for execution of the work, so as to cause minimum environmental pollution of any kind during construction. Further, the Contractor shall take all precautions to abide by the environmental related restrictions imposed by Madhya Pradesh Pollution control board, Govt. of Madhya Pradesh.

Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claim what so ever on account of site constraints mentioned above or any other site constraints, inadequate availability of skilled, semi-skilled or unskilled workers in the near vicinity, non-availability of construction machinery spare parts and any other constraints not specifically stated here, shall be entertained from the Contractor. Therefore, the Tenderers are advised to visit site and get first-hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

5.2 The Contractor shall cooperate with and provide the facilities to the sub-Contractors and other agencies working at site for smooth execution of the work. The contractor shall indemnify STC, BSF, authorities.

Against any claim(s) arising out of such disputes. The Contractor shall:

- (i) Allow use of scaffolding, toilets, sheds etc.
- (ii) Properly co-ordinate their work with the work of other Contractors.
- (iii) Provide control lines and benchmarks to his Sub-Contractors and the other Contractors.
- (iv) Provide electricity and water at mutually agreed rates.
- (v) Provide hoist and crane facilities for lifting material at mutually agreed rates.
- (vi) Co-ordinate with other Contractors for leaving inserts, making chases, alignment of services etc. at site.
- (vii) Adjust work schedule and site activities in consultation with the Engineer-in-Charge and other Contractors to suit the overall schedule completion.

- (viii) Resolve the disputes with other Contractors/ sub-contractors amicably and the Engineer-in-Charge shall not be made intermediary or arbitrator.
- 5.3 The work should be planned in a systematic manner so as to ensure proper co-ordination of various disciplines viz. sanitary & water supply, drainage, rain water harvesting, electrical, firefighting, information technology, communication & electronics and any other services.
- 5.4 Other agencies will also simultaneously execute and install the works of sub-station / generating sets, air-conditioning, lifts, etc. for the work and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be supplied free of cost by the department unless otherwise specifically mentioned) and the contractor shall fix the same at time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.
- 5.5 The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and in a proper co-ordinate manner and shall perform it in proper sequence to the complete satisfaction of others.

## **6. SAFETY MEASURES AT CONSTRUCTION SITE**

In order to ensure safe construction, following shall be adhered for strict compliance at the site:-

- (i) The work site shall be properly barricaded.
- (ii) Adequate signages indicating 'Work in Progress – Inconvenience caused is Regretted' or Diversion Signs shall be put on the sites conspicuously visible to the public even during night hours. These are extremely essential where works are carried out at public places in use by the public.
- (iii) The construction malba at site shall be regularly removed on daily basis.
- (iv) All field officials and the workers must be provided with safety helmets, safety shoes and safety belts.
- (v) Proper MS pipe scaffoldings with work – platforms and easy-access ladders shall be provided at site to avoid accidents.

Necessary First-Aid kit shall be available at the site.

The above provisions shall be followed in addition to the provisions of General Condition of Contract.

## **7. Field testing instruments**

(Following instruments in sufficient quantity as directed by the Engineer- in- Charge shall be made available by the contractor. It shall be ensured that the instruments always remain in serviceable condition else the same will be replaced. In case of non-availability of instrument Engineer-In-Charge will purchase the same and the invoice amount will be deducted from the bill and will be bound to contractor in the interest of work.

- (1) Steel tapes – 3 m / 5m / 7.5m / 15m / 30m
- (2) Vernier Calipers.
- (3) Micrometer screw 25 mm gauge.
- (4) A good quality plumb bob.
- (5) Spirit level, minimum 30 cms long with 3 bubbles for horizontal vertical.
- (6) Wire gauge (circular type) disc.
- (7) Foot rule.
- (8) Long nylon thread.
- (9) Rebound hammer for testing concrete
- (10) Dynamic penetrometer.
- (11) Magnifying glass

- (12) Screw driver 30 cms long
- (13) Ball pin hammer, 100 gms.
- (14) Plastic bags for taking samples
- (15) Moisture meter for timber
- (16) Earth resistance tests (for Electrical Divisions)
- (17) Multimeter, Meggar (for Electrical Divisions)
- (18) Total station

## **8. The contractor shall submit 'Method Statement' for the approval soon after the award of work**

'Method Statement' is a statement by which the construction procedures for important activities of construction are stated, checked and approved. Method Statement shall have description of the item with elaborate procedures in steps to implement the same. The specification of the materials involved their testing and acceptance criteria, equipments to be used, precautions to be taken, mode of measurements etc.

## **9. TESTING OF MATERIALS**

- 9.1 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 unless specified otherwise. In all cases cost of samples and to & fro carriage shall be borne by the contractor. Contractor shall establish a laboratory at site of work at his own cost. The laboratory shall be equipped with all necessary equipment as per requirement of specification or as per direction of Engineer-in-Charge. A list of laboratory equipment to be maintained by the contractor is enclosed at Para 13 page 40 & 41. Establishing the laboratory at site shall not absolve the contractor from fulfilling the criteria of getting the test done in independent approved laboratories as per DG, CPWD, O.M. No. DG/MAN/308 dated 29.05.2014. The decision of the Engineer-in-Charge of allowing any test in the site laboratory shall be final.
- 9.2 Even ISI marked materials may 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/material. Whenever ISI marked materials are brought to the site of work the contractor shall, if required by the Engineer-in-Charge, furnish manufacturer test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfy the provisions of IS codes relevant to the material and/or the work done.
- 9.3 Substandard Material/Work: In case any material/work is found substandard the same shall be rejected by the Engineer-in-Charge and the same shall be removed from the site of work within 48 hour, failing which the same shall be got removed by the Engineer-in-Charge at the risk and cost of the contractor without giving any further notice and time.



**FORM OF APPLICATION BY THE CONTRACTOR FOR SEEKING EXTENSION OF TIME**

(PART – I)

1. Name of contractor
2. Name of work as given in the agreement
3. Agreement no.
4. Estimated amount put tender
5. Date of commencement of work as per agreement
6. Period allowed for completion of work as per agreement
7. Date of completion stipulated in agreement
8. Period for which extension of time has been given previously:

	EE's letter no. and date	Extension granted	
		Months	Days
(a) 1st extension .....			
(b) 2nd extension .....			
(c) 3rd extension .....			
(d) 4th extension .....			
(e) Total extension previously given.....			

9. Reasons for which extension have been previously given (copies of the previous applications should be attached)
10. Period for which extension if applied for
11. Hindrances on account of which extension is applied for with dates on which hindrances occurred and the period for which these are likely to last.

Serial no	Nature of hindrance	Date of occurrence	Period for which it is likely to last	Period for which extension required for this particular hindrance	Overlapping period if any, with reference to item.	Net extension applied for	Remarks, if any
a	b	c	d	e	f	g	h

Total period on account of hindrances mentioned above..... Months ..... Days

12.Extension of time required for extra work.

13.Details of extra work and the amount involved:

a.Total value of extra work

b.Proportionate period of extension of time based on estimated amount put to tender on account of extra work.

14.Total extension of time required for 11 & 12

Submitted to the Sub Divisional Officer .....

Signature of contractor  
Dated:.....

**FORM OF APPLICATION OF THE CONTRACTOR FOR SEEKING RESCHEDULING OF THE MILESTONES**

**1. Name of contractor**

**2. Name of work as given in the agreement**

**3. Agreement no.**

**4. Estimated amount put tender**

**5. Date of commencement of work as per agreement**

**6. Period allowed for completion of work as per agreement**

**7. Date of completion stipulated in agreement**

**8. Rescheduling of milestones done previously**

Milestone No. Already Rescheduled	EE's Letter No. and Date	Rescheduling Of Milestones Done	
		Original Date	Rescheduled Date
(A) 1st Milestone			
(B) 2nd Milestone			

Rescheduling of milestone applied for

Milestone No. For Which Rescheduling is Applied	Original/ Rescheduled Date	Details And Period of Hindrances	Comments of Executive Engineer	Proposed Rescheduled Date of
(A) 1st Milestone				
(B) 2nd Milestone				

Submitted to the Sub Divisional Officer

Signature of Contractor Dated

**GUARANTEE BOND TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS AFTER COMPLETION  
IN RESPECT OF WATER PROOFING WORKS**

The Agreement made this .....day of ..... two thousand and ..... between .....son of ..... of ..... (hereinafter called the Guarantor of the one part) and the PRESIDENT OF INDIA (hereinafter called Government of the other part).

WHEREAS this agreement is supplementary to a contract (hereinafter called the Contract) dated ..... and made between the GUARANTOR of the one part and the Government of the other part, whereby the Contractor, inter alia, undertook to render the buildings and structures in the said contract recited completely water and leak-proof.

AND WHEREAS GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for five years from the date of giving of water proofing treatment.

NOW THE GUARANTOR hereby guarantees that water proofing treatment given by him will render the structures completely leak-proof and the minimum life of such water proofing treatment shall be five years to be reckoned from the date after the maintenance period prescribed in the contract.

Provided that the guarantor will not be responsible for leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose:

- (a) Misuse of roof shall mean any operation which will damage proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the roof;
- (b) Alteration shall mean construction of an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts;
- (c) The decision of the Engineer-in-Charge with regard to cause of leakage shall be final.

During this period of guarantee the guarantor shall make good all defects and in case of any defect being found, render the building water-proof to the satisfaction of the Engineer-in-Charge at his cost, and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-Charge calling upon him to rectify the defects, failing which the work shall be got done by the Department by some other contractor at the GUARANTOR'S cost and risk. The decision of the Engineer- in-Charge as to the cost, payable by the Guarantor shall be final and binding.

That if GUARANTOR fails to execute the water proofing or commits breach thereunder then the GUARANTOR will indemnify the Principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government the decision of the Engineer-in-Charge will be final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the Obligor .....and by .....and for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

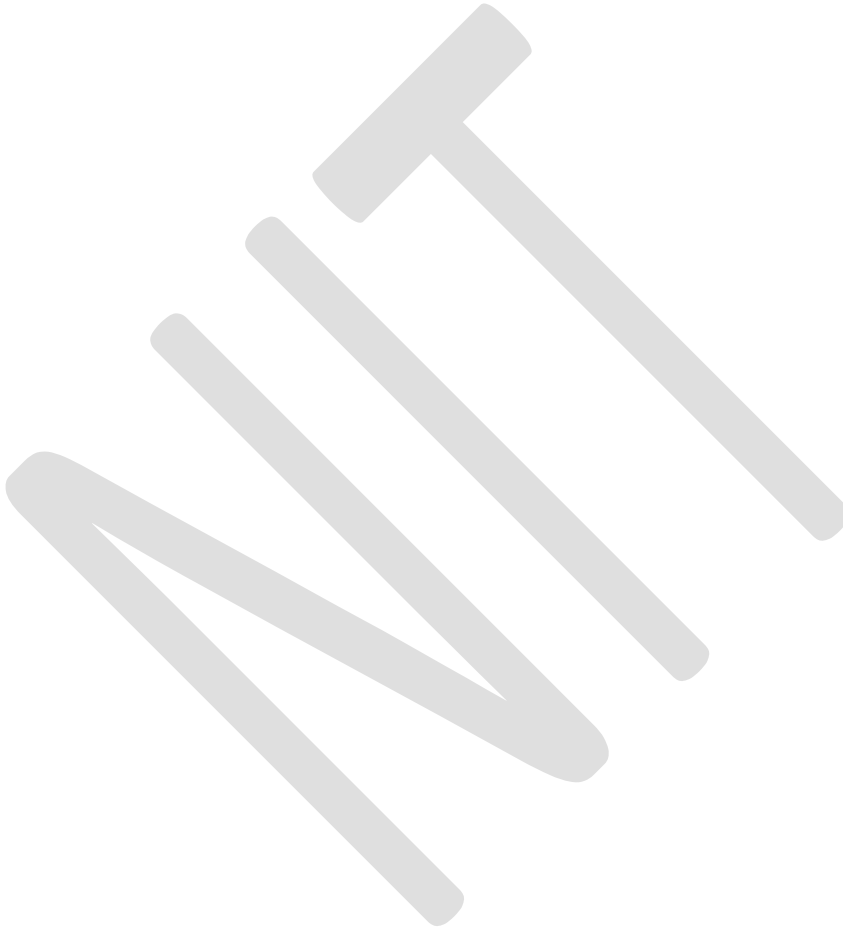
Signed, sealed and delivered by OBLIGOR in the presence of

1.

2.

Signed for and on behalf of THE PRESIDENT OF INDIA by .....in the presence of

1.



**No Claim Certificate**

**(On company letterhead)**

To,

The Executive Engineer,

Project Cell, AIIMS, Raipur

Name of Work-

Agreement No. -

Sub: No claim declaration / certificate

We have received the sum of Rs. (Rupees ..... only) in full and final settlement of all the payments due to us for the above stated work under the above mentioned contract agreement, between us and AIIMS, Raipur. We hereby unconditionally, and without any reservation whatsoever, certify that with this payment, we shall have no claim whatsoever, of any description, on any account, against Procuring Entity, against aforesaid contract agreement executed by us. We further declare unequivocally, that with this payment, we have received all the amounts payable to us, and have no dispute of any description whatsoever, regarding the amounts worked out as payable to us and received by us, and that we shall continue to be bound by the terms and conditions of the contract agreement, as regards performance of the contract.

Yours faithfully,

Signatures of contractor

or Officer authorised to sign the contract documents

on behalf of the contractor

(Company stamp)

Date: .....

Place: .....

## LIST OF APPROVED MATERIALS (ELECTRICAL)

Note :

1. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the particular specifications or in the list of approved materials attached in the tender shall be used in the work.
2. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material/ Brand/ Make.
3. Whenever the specified brand of material is not available than, the Engineer-in-charge may approve any material equivalent to that specified subject to proof being offered by the Contractor for its equivalence and its non-availability to his satisfaction.
4. 1) If any makes stated above does not comply with the technical specifications given in the tender then such a make shall not be allowed.

The following are the acceptable makes of Electrical materials as indicated against individual items:

Sl. No.	Item	Acceptable Makes
1	PVC insulated Copper wire / Telephone wire	HPL / KEI / HAVELLS / RR Kabel / Polycab / Finolex/ Anchor/ (All with ISI Marked)
2	MCCB / Switch Gear with Thermomagnetic releases	L&T/Seimens/Legrand / Schneider/Hager/ABB/ GE/C&S Electric
3	MCCB with Variable microprocessors based releases (o/c, s/c, e/f)	L & T (D-Sine) , ABB (ISO Max), Siemens, Schneider (NS Compact), GE (Recold Plus), Legrand (DPX)
4	MCB / MCB Prewired DB / RCCB/ Industrial Socket not less than 10 K.	Legrand / L&T / Hager / Seimens / Schneider/ Havells/ ABB/HPL
5	Steel Conduit.	BEC / AKG / MK / Rama / Finolex
6	PVC Conduit	BEC,AKG, MK, Anchor, Finolex, Steel Craft, Saraswati, Swastik , Polycab
7	Casing Capping	Saraswati, Polycab, Precision, Astral
8	Call Bell / Buzzer / Ceiling rose / Electronic Regulator.	Anchor / Vinay Clair / Polo Rider / North West.
9	Brass Batten / Angle Holder.	Kinjal / Antex / Emperor.
10	Modular Switch / Socket / Blanking Plate /PVC Box / Metal (GI)Switch Box (the gauge of GI Box shall not less than 16 SWG/1.2mm, depth≥60mm & of the same make that of Switch) Front Plates, Telephone, T.V. Outlets Socket / Fan Regulator.	Crabtree (Murono), Anchor (Vision), L&T(Entice), MK (Citric), Legrand (Myrius), Schneider (Opale), Siemens.

11	Lamp for (light fittings)	Wipro/Philips/Bajaj/Crompton/Havells/C&S/Osram/Halonix.
12	XLPE insulated PVC sheathed 1.1 KV grade Al. conductor armoured UG cable.	Finolex/ Cable Corporation of India / R.R. Kabels/ Universal Cable.
13	Galvanize Octagonal Street light pole/ High Mast & galvnised bracket.	Bajaj/ Transrail/ Valmont/Aster.
14	HRC Protection Fuses/ Fuse Fittings.	Siemens/ L&T/ Schneider /ABB
15	Selector Switches/ Indicating Lamps (LED type)	L7T/Salzer/Kaycee/Siemens/BCH/Schinder/Veshno/ Teknik/RAAS
16	Digital Ammeter/ Voltmeter	Conserve/ Secure/Enercon/AE/ MECO/ Universal/ Rishab/ Yokins
17	Current. Transformer	L&T/ A.E./ Kappa/ IMP/ GE or equivalent
18	LUGS, Thimble, Cable Glands	Dowels/ Multi/ COMET/ Hex/ Jhonson / Gripwell/Comex/Comed
19	Timer	L&T/ Siemens/ Schinder/ Hager/ Legrand
20	Modular Blanking Plate	Clipsal, Crabtree, MK, Anchor, Legrand, L&T, ROMA, Siemens Northwest
21	G.I. Pipe	Jindal/ Tata/ Prakash/Surya
21	Power/auxiliary contactors, timers, Relay, Starters.	L&T / Siemens / Schinder/ABB
22	Fluorescent Tube Fittings	Surya, Keslec, Trilux, Bajaj, Osram, GE , Wipro, Crompton Philips
23	Tap-off Box (Plug in Type), End Feed Unit	C&S Electric & Switchgear, L & T, ABB, Siemens, Schneider, Tricolite
24	LT Panels / Feeder Pillars / Floor Panels for upto 400A i/c switchgear	L & T, ABB, Siemens, Schneider, Tricolite, Adlec, CRS, Sudhir, Jakson, Advance Panel (Narela), Adhunik, Havells.
25	MPCB	L&T, ABB, Siemens, Schneider
26	LED fixture	Wipro/Philips/Bajaj/Crompton/Havells/C&S/Osram/Halonix
27	Battery	Exide/Panasonic/Hitachi/Cummins/Amaron
28	ACB spare parts	L&T as installed at site.
29	Moulded case circuit Breaker	L&T as installed at site.

## PROFORMA OF SCHEDULES

### SCHEDULE 'A'

Schedule of quantities (as per PWD-3) : (Attached in e-procurement site)

### SCHEDULE 'D'

Extra schedule for specific requirements/  
document for the work, if any. the work, if any. : Nil

### SCHEDULE 'E'

Reference to General Conditions of contract : CPWD General Conditions of Contract 2019 modified and amendment up to the last date of submission of tender.

Name of work : "CAMC of Sewage Treatment plant at AIIMS residential Campus, Kabir Nagar, Raipur."

Estimated cost of work : Rs.15,78,900.00

(i) Earnest money : Rs. 31,600.00 (to be returned after receiving performance guarantee)

(ii) Performance Guarantee : 5% of tendered value.

(iii) Security Deposit : 2.5% of tendered value.

### SCHEDULE 'F'

#### GENERAL RULES & DIRECTIONS:

Officer inviting tender : Executive Engineer (Civil), AIIMS Raipur on behalf of Director AIIMS Raipur.

Maximum percentage for quantity of items  
of work to be executed beyond which rates

are to be determined in accordance with : See below

Clauses 12.2 & 12.3.

#### Definitions:

2(v) Engineer-in-Charge : Executive Engineer, AIIMS Raipur (C.G)

2(viii) Accepting Authority: Executive Engineer, AIIMS Raipur (C.G)

2(x) Percentage on cost of materials and labour  
to cover all overheads and profits. : 15%

2(xi) Standard Schedule of Rates : CPWD DSR (E/M) 2018 & Market Rates

2(xii) Department : Project Cell, AIIMS Raipur.

9(ii) Standard CPWD contract Form GCC 2019



**Clause 1**

(i) Time allowed for submission of Performance

Guarantee, programme chart

(Time and progress) and applicable labour : **07 Days**

Licenses, registration with EPFO,

ESIC and BOCW welfare board or proof of applying

Thereof from the date of issue of letter of acceptance

(ii) Maximum allowable extension with late fee @ 0.1% per day : **07 Days**

of Performance Guarantee amount beyond the period

Provided in (i) above

**Clause 2**

Authority for fixing compensation under clause 2. : **Superintending Engineer / Director, AIMS Raipur**

**Clause 2A**

Whether Clause 2A shall be applicable

Applicable clause 2/ Clause 2A : **No**

**Clause 5**

Number of days from the date of issue of letter of acceptance for reckoning date of start : **14 Days**

Mile stone(s) as per table given below:-

Sl No	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be with-held in case of non-achievement of
1	←		
2	NIL		
3			
4			→

Time allowed for execution of work – **365** days.

**Authority to decide:**

- (i) Extension of time : Executive Engineer, AIIMS Raipur (C.G.)
- (ii) Rescheduling of mile stones : Superintending Engineer/Director, AIIMS Raipur
- (iii) Shifting of date of start in case of delay in handing over of site : Superintending Engineer/Director, AIIMS Raipur

**PROFORMA OF SCHEDULES Clause 5**

Schedule of handing over of site

Part	Portion of Site	Description	Time Period for handing over reckoned from date of issue of letter of Intent.
Part A	Portion without any hindrance	All works	14 days
Part B	Portions with encumbrances	NA	NA
Part C	Portions dependent on work of other agencies	NA	NA

**Applicable clause 5/ Clause 5A : 5A (Applicable)**

**Clause 6,6A  
Clause applicable to this tender : 6A (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. **Estimate cost put to tender**

- i. Up to Rs. 10 lacs – Nil
- ii. More than Rs. 10 and up to 50 lacs – Rs. 15 lacs
- iii. More than Rs. 50 lacs – Rs. 25 lacs

**Clause 7 A**  
No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-charge.

Whether clause 7A shall be applicable : **yes**

**Clause 10A**

List of testing equipment to be provided by the contractor at site lab. : **As required by Engineer-In-Charge**

**Clause 10B (ii)**

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

**Clause 10C**

Component of labour expressed as

percent of value of work : **NOT Applicable**

**Clause 10CA** : **NOT Applicable**

**Clause 10CC** : **NOT Applicable**

**Clause 11**

Specifications to be followed for execution of work : **CPWD Specifications 2013 Electrical Works with up to date correction slips, (up to date of receiving of tender)**

**Clause 12**

Type of Work : **Maintenance Work**

**12.2&12.3**

Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work : As per CPWD Works Manual-2019

**12.5**

(i) Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work (except items mentioned in earth work subhead in DSR and related items) : As per CPWD Works Manual-2019

(ii) Deviation Limit for items mentioned in earth work subhead of DSR and related items : As per CPWD Works Manual-2019

**Clause 16**

Competent Authority for deciding reduced rates. : Superintending Engineer/ Director, AIIMS Raipur

**Clause 18**

List of mandatory machinery, tools & plants to be deployed by the contractor at site : As required by Engineer -in- Charge

**Clause 19 C**.....Engineer-In charge (Executive Engineer)

**Clause 19 D**..... Engineer-In charge (Executive Engineer)

**Clause 19 G** .....Engineer-In charge (Executive Engineer)

**Clause 19 K** .....Engineer-In charge (Executive Engineer)

**Clause 25**

Constitution of Dispute Redressal Committee (DRC) : **AIIMS, Raipur**

**Clause 32**

:

**Applicable**

Requirement of Technical Representative(s) and recovery Rate

S.No	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical / Technical representative)	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i)	
						Figures	Words
1	Graduate Engineer	Electrical/civil/mechanical	Principal Technical Representative	2 - years	ONE	Rs. 15,000/- PM	Rupees Fifteen Thousand Per Month each
OR	Diploma Engineer	Electrical/civil/mechanical	(Project Planning/ Site/ billing Engineer)	5-years	ONE	Rs.15000/- PM.	Rupees Fifteen Thousand Per Month each

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

Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

**Clause 38**

:

**Not Applicable**

## Schedule of Quantity

Name of Work:- CAMC of Sewage Treatment plant at AIIMS residential Campus, Kabir Nagar, Raipur.					
S.no	Description of Items	Unit	Qty	Rate (inclusive all taxes)	Amount
<b>Part 'A' : COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT</b>					
	<b>Sewage Treatment Plant</b>				
1.00	<p>Comprehensive annual maintenance of 500 KLD Sewage treatment plant round the clock , including all equipment's, Civil, Electrical Installation, components, replacement of consumables and other necessary materials, water proofing treatment to stop seepage the replacement of all damaged/stolen parts, painting of all existing pipes, oiling, greasing, replacing washers, gasket, mechanical seal, <b>rewinding motors (if required)</b>, filter cartridge, membranes, un-functional valves/pipe portion, supporting structure, missing parts, replacement of defective tubes &amp; supporting structure members of tube settler and cleaning/repared of entire tube settler (one by one), adding MBBR media to improve the capacity of STP, mixing the culture solution to improve the MLSS of STP. cleaning of filters, cleaning of tanks, tools &amp; tackles, minor consumable like gasket, gland packing, MS spring, nut &amp; bolts, rubber coupling, clamps, grease caps, spindle, thrust plate, wedge nut, wire mess, touch up with anticorrosive paint, PVC flexible water hose for cleaning, minor welding etc. The refilling work of MBBR, sand filter, filter cartridge &amp; activated carbon filter if required. Civil, electrical and mechanical parts &amp; material, <b>Including inspection cost of water sample lab test report monthly for treated water.</b> Electrical installation in STP are</p> <ol style="list-style-type: none"> <li>1) Sewage Pump 3Ph,1.5kW 2830 RPM - 02Nos,</li> <li>2) Blower 3Ph,3.7kW 1425 RPM - 02Nos &amp; 2.2kW 1430RPM - 1Nos,</li> <li>3) Filter Press 3Ph,1.5kW 1420 RPM - 02Nos,</li> <li>4) Dosing Pump - 01Nos,</li> <li>5) Sludge Pump - 3Ph,2.2kW 2973 RPM - 02Nos,</li> <li>6) Filter Feed Pump - 3Ph, 3.7kW 2870 RPM - 02Nos etc.</li> </ol>	per year	1.00	665520.00	665520.00
<b>Part 'B' : TECHNICAL MANPOWER COMPONENT</b>					
2.00	<b>Operation &amp; Maintenance charge for Sewage Treatment Plant through deployment of qualified Manpower. The charges will be all inclusive. Contractor has to follow all Maintenance requirements as per tender conditions.</b>				
2.01	Providing services of Operator (minimum Qualification: ITI with minimum 1 year of experience STP maintenance work) for maintaining and repairing of complete electrical system of STP and proper dosing of chemical & proper working of motors & functional to the entire satisfaction and as per direction of the Engineer-in-charge.				

a)	(Shift-one)-6:00 AM to 2:00 PM-- 1No Operator.	Month	12.00	19597.00	235164.00
b)	(Shift-Two)-2:00 PM to 10:00 PM-- 1No Operator.	Month	12.00	19597.00	235164.00
c)	(Shift-Three)-10:00 PM to 6:00 AM-- 1No Operator.	Month	12.00	19597.00	235164.00
2.02	Providing services of sweeper for cleaning & making functional the system of sewage Treatment plant and also making arrangement of clearing the choking & over flow of sewage water efficient and functional to the entire satisfaction and as per direction of the Engineer-in-charge.				
a)	(General Shift)-9:30 AM to 5:30 PM-- 1No sweeper	Month	12.00	17324.00	207888.00
				<b>Total Rs.</b>	<b>1578900.00</b>