



आरोग्यम् सुख सम्पदा

## ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR

OFFICE OF  
THE SUPERINTENDING ENGINEER  
PROJECT CELL AIIMS, RAIPUR

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

**N.I.T. NO. 20/SE/AIIMS/RPR/2022-23**

NAME OF WORK: - **“Manning Operation & Comprehensive Maintenance of 1200 KLD Sewage Treatment Plant (STP) & 4nos. Effluent Treatment Plant (ETP) each of 100 KLD at AIIMS Hospital Campus, Raipur.”**

ESTIMATED COST: Rs. 51,26,270.00

EARNEST MONEY: Rs. 1,02,600.00

CONTRACT PERIOD: 12 Months

Type of work: Maintenance

e-sign by Rajesh Singh  
Lt. Col  
**Superintending Engineer**  
**AIIMS, Raipur**

## INDEX

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Sl. No	Particulars	Page No.	
		From	To
1	COVER PAGE	1	
2	INDEX	2	
3	INSTRUCTIONS FOR ONLINE BID SUBMISSION	3	5
4	NOTICE INVITING E-TENDER	6	
5	INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING	7	12
6	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	13	
7	LETTER OF TRANSMITTAL(ANNEXURE-A)	14	
8	FORM FOR DETAILED INFORMATION BY BIDDER (VENDOR DETAILS) (ANNEXURE-B)	15	
9	STRUCTURE & ORGANISATION (ANNEXURE-C)	16	
10	DECLARATION(ANNEXURE-D)	17	
11	INTEGRITY PACT(ANNEXURE-E)	18	
12	ACKNOWLEDGEMENT & ACCEPTANCE LETTER(ANNEXURE-F)	19	
13	CONSENT LETTER(ANNEXURE-G)	20	
14	Self Certification under Preference to “MAKE IN INDIA” PolicyCERTIFICATE (ANNEXURE –H)	21	
15	ANNUAL TURNOVER FOR THE LAST THREE YEARS (PROFORMA-III)	22	
16	DETAILS OF THE SIMILAR WORKS COMPLETED IN LAST SEVEN YEARS (PROFORMA-IV)	23	
17	DETAILS OF ON-GOING/EXISTING WORKS (PROFORMA-VI)	24	
18	INTEGRITY AGREEMENT	25	29
19	PERCENTAGE RATE TENDER/ ITEM RATE TENDER& CONTRACT FOR WORKS	30	31
20	GENERAL PARTICULAR & ADDITIONAL CONDITIONS OF CONTRACT	32	48
21	TECHNICAL SPECIFICATIONS FOR INTERNAL AND EXTERNAL ELECTRICAL WORKS	49	52
22	FORM OF EARNEST MONEY DEPOSIT (BANK GUARANTEE BOND)ANNEXURE-I	53	
23	FORM OF PERFORMANCE GUARANTEE BANK GUARANTEE	54	56
24	SPECIAL CONDITIONS OF CONTRACT & ADDITIONAL CONDITION OF CONTRACT	57	62
25	FORM OF APPLICATION BY THE CONTRACTOR FOR SEEKING EXTENSION OF TIME (PART I)	63	
26	FORM OF APPLICATION OF THE CONTRACTOR FOR SEEKING RESCHEDULING OF THE MILESTONES	64	
27	GUARANTEE BOND TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS	65	
28	LIST OF SPECIALIZED ITEMS / JOBS	66	68
29	NO CLAIM CERTIFICATE (ON COMPANY LETTERHEAD)	69	
30	APPROVED MATERIALS LIST (CIVIL)	70	76
31	APPROVED MATERIALS LIST (ELECTRICAL) & FIRE	77	80
32	PROFORMA OF SCHEDULES	81	84

## **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 Superintending Engineer, AIIMS Raipur.

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR

NOTICE INVITING e-TENDER

(a)	Name of Work	<b>“Manning Operation &amp; Comprehensive Maintenance of 1200 KLD Sewage Treatment Plant (STP) &amp; 4nos. Effluent Treatment Plant (ETP) each of 100 KLD at AIIMS Hospital Campus, Raipur.”</b>
(b)	Tender No.	<b>20/SE/AIIMS/RPR/2022-23</b>
(c)	Contract Period	<b>12 Months</b>
(d)	Estimated Cost	<b>Rs. 51,26,270.00</b>
(e)	Earnest Money Deposit ( <b>Mandatory to submit original EMD for participating in Bid and no need to submit hard copy of whole tender document</b> )	<b>Rs. 1,02,600.00</b> (to be submitted 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 <b>in favour of AIIMS, Raipur</b> in the office of Project cell, AIIMS, Raipur before the last date of opening of technical Bid.
(f)	Performance Guarantee	3% 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 10-08-2022 UP TO 16:00 Hours through online.</b>
(k)	Date & Time for opening of Technical Bid	On 11-08-2022 at 16:30 Hours.

1. The intending 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>.

**Superintending Engineer  
AIIMS, Raipur**

**FORM-6****INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING**

The Superintending Engineer, AIIMS, Raipur on behalf of Director, AIIMS, Raipur invites online **Percentage-Rate/ Item Rate bids in Two bid system (Technical cum Eligibility & Financial )** from eligible and registered contractors of appropriate list of CPWD (**Class IV and above in B&R with valid Electrical License or valid Electrical Registration** )/M.E.S. (**Class C category c(vii) and above**)/ BSNL (Construction) with valid electrical license or valid electrical registration /Railway with valid electrical license or valid electrical registration/C.G. P.W.D(**Class D and above with valid Electrical License or valid electrical registration**)/ Specialised Firm /Specialised Agency for the following work(s):-

Sl. No.	Description	Details
(a)	NIT No.	<b>20/SE/AIIMS/RPR/2022-23</b>
(b)	Name of Work:	<b>“Manning Operation &amp; Comprehensive Maintenance of 1200 KLD Sewage Treatment Plant (STP) &amp; 4nos. Effluent Treatment Plant (ETP) each of 100 KLD at AIIMS Hospital Campus, Raipur.”</b>
(c)	Estimated Cost	<b>Rs. 51,26,270.00</b>
(d)	Earnest Money ( <b>Mandatory to submit original EMD for participating in Bid and no need to submit hard copy of whole tender document</b> )	<b>Rs. 1,02,600.00</b> (to be submitted 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 <b>in favour of AIIMS, Raipur</b> in the office of Project cell, AIIMS, Raipur before the last date of opening of technical Bid.
(e)	Period of Completion	<b>12 Months</b>
(f)	Last Date & Time of Submission	<b>By 10-08-2022 UP TO 16:00 Hours through online.</b>
(g)	Date & Time for opening of Technical Bid	On 11-08-2022 at 16:30 Hours.

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](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, downloaded from AIIMS Raipur website and Central Public Procurement Portal (CPPP) e-Procurement website.

3. 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.
4. The bid document consisting of the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <http://eprocure.gov.in/eprocure/app> free of cost.
5. 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.
6. *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.*
7. 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.*
8. 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.
9. If the bidder is found ineligible after opening of technical cum eligibility, bid shall become invalid.
10. **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.**
11. 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.
12. 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.
13. **Performance Guarantee:** The successful contractor will be required to furnish a Performance guarantee of **3% (Three 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.*

#### 14. 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.

15. 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.

16. *The Tender paper/documents can be seen / downloaded from Official website & submitted through Online or Site.*
17. 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.
18. 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.
19. 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.
20. 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.
21. The bid for the works shall remain **open for acceptance for a period of 90 days from the date of opening of bids.**
22. 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.
23. Purchase preference shall be given to Class-I local supplier(s) based on their declaration of the percentage (%) of minimum local content used in the manufacturing of quoted product as per Public Procurement (Preference to make in India), Order 2017 notification issued by GoI, Ministry of Commerce and Industry, Department of Industrial Policy and Promotion (DIPP) vide order no. P-45021/2/2017-PP (BE-II) dated 15/06/2017 and order no. 31026/65/2020-MD dated 30/12/2020 issued by Ministry of Chemicals & Fertilizers, Department of Pharmaceuticals

*"Local Content" means the amount of value added in India which shall be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.*

24. It is expected that, all the participating BIDDER companies have understanding and prior knowledge about the "Make in India" Initiative and Price Preference Policy of Govt. of India. However, it is once again emphasized that before participating this e-tender please carefully read the "Make in India" Initiative and directives of Govt. of India, since in case if any "Make in India" Registered Company will participate against this e-tender, the Price preference as per the same will be given to such participating Bidder company for ensuring necessary compliances of "Make in India" Policy of the Govt. of India.

## 25. Eligibility of Bidder

### (a) Minimum Eligibility Criteria :

(i) The Applicant should be registered contractors of appropriate list of CPWD (**Class V and above in B&R with valid Electrical License or valid Electrical Registration**)/M.E.S. (**Class C category c(vii) and above**)/ BSNL (Construction) with valid electrical license or valid electrical registration /Railway with valid electrical license or valid electrical registration/C.G. P.W.D(**Class D and above with valid Electrical License or valid electrical registration**) /Specialised Firm/ Specialised Agency

(ii) Average Annual Financial Turnover on works should be at least 50% of the estimated cost put to tender during the immediate last three consecutive financial years.

(iii) **Experience of having successfully completed similar work in Govt./Semi Govt./PSU/Autonomous Bodies of Govt. during last 7 years ending on previous day of last day of submission of tender**

**Three completed works each of value not less than 40% of the estimated cost put to tender**

**OR**

**Two completed works each of value not less than 60% of the estimated cost put to tender**

**OR**

**One completed works each of value not less than 80% of the estimated cost put to tender**

**Similar work means Operation and Maintenance works of STP/ Operation and Maintenance works of ETP/ Annual Maintenance Contract of STP/ Comprehensive Annual Maintenance Contract of STP/ Annual Maintenance Contract of ETP/ Comprehensive Annual Maintenance Contract of ETP**

### (b) Monthly Performance Report:

For the Contractors to whom any work(s) in AIIMS Raipur is awarded and in progress, prior to Opening of Financial Bid, a Monthly Performance Report for contractors will be prepared by the Engineer-in Charge to ascertain their performance to complete any additional work in AIIMS Raipur within Stipulated Time of completion of work or Extended Time of completion of work (if any). Any adverse remark in the Monthly Performance Report for contractor shall result in rejection of Technical Bid of such contractor for this NIT. This criteria for Technical Eligibility of Bidder may be relaxed in the case of contractor whose performance has been found to be very high order with the approval of Director, AIIMS Raipur.

### (c) **Contractual Performance in Other Departments**

Letter of past contractual performance to be submitted by bidder as per **Proforma -VII**

### **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**

**(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	Enlistment Order for the Contractor with Valid Electrical License/ Electrical Registration.
2	Scanned Copy of EMD (Original to be submitted as mentioned in Information and Instructions for Bidders for e-Tendering)
3	Letter of transmittal (Annexure-A)
4	Vendor Details as per (Annexure-B)
5	Structure & Organization (Annexure-C)
6	Declaration by Bidder (Annexure-D)
7	Acknowledgement & Acceptance Letter (Annexure-F)
8	Consent Letter(Annexure-G)
9	Self Certification under Preference to “MAKE IN INDIA” Policy (Annexure -H)
10	GST Registration Certificate
11	EPF & ESIC Registration
12	Proof of Average Annual Financial Turnover on construction works should be at least 50% of the estimated cost put to tender during the immediate last three consecutive financial years (Proforma III)
13	Details Of The Similar Works Completed In Last Seven Years (Proforma IV)
14	Details Of On-Going And Existing Works (Proforma VI)
15	Affidavit on non-judicial paper of Rs. 50/- duly attested by Notary/ Magistrate for PAST CONTRACTUAL PERFORMANCE ( Proforma VII)

e-sign by Rajesh Singh  
Lt.Col

**Superintending Engineer  
AIIMS, Raipur**

(Annexure-A)

**LETTER OF TRANSMITTAL**

From:

To

The Superintending Engineer,

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

**Subject:** Submission of bids for the work of “**Manning Operation & Comprehensive Maintenance of 1200 KLD Sewage Treatment Plant (STP) & 4nos. Effluent Treatment Plant (ETP) each of 100 KLD at AIIMS Hospital Campus, Raipur.**”

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 H 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

**Annexure-B****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) Account Number	
	c) Name of the Branch	
	d) Branch Code	
	e) Address	
	f) City Name	
	g) Telephone No	
4.	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	
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)

<b>Organization/Place of registration</b>	<b>Registration No.</b>
1.	
2.	
3.	
5. Names and titles of Directors & Officers with designation to be concerned with this work.

**Signature of Bidder(s) with Seal**



**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 provided our e-Mail id for any communication in this regard.
- 7) I have read carefully & understood the important instructions to the all bidders.

Date.....

Contractor

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

(Sign with Seal)

**Annexure-E**

**INTEGRITY PACT**

To,

Sub: NIT No. **20/SE/AIIMS/RPR/2022-23 for the work of “Manning Operation & Comprehensive Maintenance of 1200 KLD Sewage Treatment Plant (STP) & 4nos. Effluent Treatment Plant (ETP) each of 100 KLD at AIIMS Hospital Campus, 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,

e-sign by Rajesh Singh  
Lt. Col.

**Superintending Engineer  
AIIMS, Raipur**

**(Annexure-F)**

**ACKNOWLEDGEMENT & ACCEPTANCE LETTER**

To,

The Superintending Engineer,

Project Cell, AIIMS Raipur

Sub: Submission of Tender for the work **“Manning Operation & Comprehensive Maintenance of 1200 KLD Sewage Treatment Plant (STP) & 4nos. Effluent Treatment Plant (ETP) each of 100 KLD at AIIMS Hospital Campus, 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)**

**(Annexure-G)**

**CONSENT LETTER**

**Name of Work: “Manning Operation & Comprehensive Maintenance of 1200 KLD Sewage Treatment Plant (STP) & 4nos. Effluent Treatment Plant (ETP) each of 100 KLD at AIIMS Hospital Campus, Raipur.”**

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 have experience to technically execute, take measurements and will produce computerized measurement sheets of work before covering hidden work / job and other exposed works in time as per clause 6 of CPWD GCC Maintenance 2020 otherwise measurement will be recorded by the representative of Engineer-In-Charge which will be bound to me. 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, 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 maintain all the registers etc. as mentioned in General Condition of Contract for workers and employees. The registers will be presented to Engineer In-charge or his authorized representative 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 with seal**

**ANNEXURE H****Self Certification under Preference to “MAKE IN INDIA” Policy****CERTIFICATE**

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15/06/2017, its revision dated 04/06/2020 and any subsequent modifications/Amendments from time to time and as applicable on the date of submission of tender, we hereby certify that we \_\_\_\_\_  
(**Name of Contractor/Firm/ Agency**) are local **Contractors and will meet** the requirement of minimum Local content (50%) as defined in above orders for the material against Tender No \_\_\_\_\_, **if selected as LowestBidder**

~~Details of location at which local value addition will be made is as follows:~~  
\_\_\_\_\_  
\_\_\_\_\_

The information furnished hereinafter is correct to the best of my knowledge and belief and I undertake to produce relevant records before the procuring entity or any other Government authority for the purpose of assessing the local content of goods/services/works supplied by me.

In the event of the local content of the goods/services/works mentioned herein is found to be incorrect and not meeting the prescribed supplier class categorization criteria as per said order, based on the assessment of procuring agency (ies)/Government Authorities for the purpose of assessing the local content, action shall be taken against me in line with the PPP-MII order and provisions of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rule for which for which a bidder or its successors can be debarred for up two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Thanking You

Seal and Signature of Authorized Signatory

Date: \_\_\_\_\_

**ANNUAL TURNOVER FOR THE LAST THREE YEARS**

<b>S. No.</b>	<b>FINANCIAL YEAR</b>	<b>Annual Turnover from Construction Works (Rs. in Lacs)</b>	<b>Remarks</b>
<b>1</b>	<b>2019-20</b>		
<b>2</b>	<b>2020-21</b>		
<b>3</b>	<b>2021-22</b>		

**Note:**

1 The bidder shall submit the Certificate from the Chartered Accountant, wherever the Annual Turnover is certified for the relevant financial year in which the minimum criteria of Annual Turnover is satisfied should also be submitted.

**DETAILS OF THE SIMILAR WORKS COMPLETED IN LAST SEVEN YEARS**

S. No	Description of the Work With Contract No./Work Order No.	Department in which work carried out	Date of award	Stipulated date of completion	Date of actual completion	Value of completed work (Rs. In Lacs)	Reasons for delays, penalty if any	Any other relevant information

**Note:**

1. The Bidder shall submit the attested Copies of the Completion Certificates from the Client i.e. Department(s) of Govt./Semi Govt./PSU/Autonomous Bodies of Govt..

## DETAILS OF ON-GOING/EXISTING WORKS

S.No	Description of The Work With Contract No./ Work Order No.	Department in which work is awarded	Date of award	Stipulated date of completion	Value of work as per order (Rs. in lacs )	Value of work completed so far (Rs. in lacs )	Anticipated date of Completion of work	Any other relevant information

**Note: The copies of Work Orders of ongoing-awarded works issued by the Client i.e. Department(s) of Govt./Semi Govt./PSU/Autonomous Bodies of Govt. shall be attached**



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..... 2022

**BETWEEN**

AIIMS Raipur through Superintending 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.20/SE/AIIMS/RPR/2022-23**) (hereinafter referred to as “**Tender/Bid**”) and intends to award, under laid down organizational procedure, contract for “**Manning Operation & Comprehensive Maintenance of 1200 KLD Sewage Treatment Plant (STP) & 4nos. Effluent Treatment Plant (ETP) each of 100 KLD at AIIMS Hospital Campus, 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 11 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: **“Manning Operation & Comprehensive Maintenance of 1200 KLD Sewage Treatment Plant (STP) & 4nos. Effluent Treatment Plant (ETP) each of 100 KLD at AIIMS Hospital Campus, 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. 1,02,600.00** 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 : #

e-Mail id#

Address: #

Occupation: #  
applicable

# To be filled in by the contractor/witness as

**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.....

Dated .....

Designation.....

## GENERAL PARTICULAR & ADDITIONAL CONDITIONS OF CONTRACT

### A. GENERAL CONDITIONS

1. Name of Work: **“Manning Operation & Comprehensive Maintenance of 1200 KLD Sewage Treatment Plant (STP) & 4nos. Effluent Treatment Plant (ETP) each of 100 KLD at AIIMS Hospital Campus, Raipur.”**
2. For all items of **Civil/Electrical/AC&R**;- CPWD specifications with up to date correction slips up to receipt of tender shall be followed. For the items which are not covered under CPWD Specifications; B.I.S. specifications shall apply. In this regard the decision of Engineer-in-charge shall be final.
3. Wherever any reference is made of any Indian Standard, it shall be taken as reference to the latest edition with all amendments/ revision issued thereto up to the date of receipt of tenders.
4. 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.
5. 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.
6. 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.
7. 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.
8. All melba/rubbish/silt/waste, garbage etc. generated due to any operation from buildings/houses/hostels and other open spaces whatsoever shall be disposed off on daily basis by the contractor to the specified common disposal point. After the collection of full truck load of the said Melba (approx. 4.5 cubic meters), the same shall be disposed off by the contractor to the authorized municipal dumping ground and nothing extra shall be paid on this account. In case of non- removal/disposal in the specified period, the same would be disposed at risk & cost of contractor.
9. 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.
10. No claims of the labours shall be entertained by the Department including that of providing employment, regularization of services etc.
11. All required register will be issued by Engineer-in-Charge/Superintending Engineer duly marked in chronological order but the contractor will have to arrange all such registers/stationery etc. Nothing extra shall be paid on this account.
12. 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.



13. 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.
14. Contractor shall be fully responsible for any damages caused to govt. property or allotter's property by his or his labor in carrying out the work and shall be rectified by the contractor at his own cost.
15. GST and other Taxes as applicable shall be recovered/ paid from the contractor's bill as per Govt. of India/AIIMS Rules. The Contractor shall quote rate of items inclusive of all taxes, EPF, ESI.
16. Chases, holes & drilling works etc. shall be done using power operated tools in the cost of Contract. No extra will be paid for the same.
17. The agency shall restore back the premises and other articles provided by the department to the department at the time of closure of the contract.
18. In the case of discrepancy between the schedule of quantities, the Specifications and/or the Drawings, the following order of preference shall be observed :-
  - (a) Description of schedule of quantities.
  - (b) Additional specifications and special conditions, if any.
  - (c) Contract clauses of General conditions of contract for Central P.W.D. works. (iv) CPWD specifications.
  - (d) Architectural drawings.
  - (e) Indian standards specifications/ BIS. (vii) Sound engineering practice. Any reference made to any Indian standards specifications in these documents, shall imply to the latest version of that standard, including such revisions/amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The contractor shall keep at his own cost all such publications of relevant Indian Standards applicable to the work at site.
20. The contractor and /or his authorized agent should see the site order book every day and get the compliance of instruction given by the JE/AE/Engineer-in-charge (E-I/C) as per time schedule.
21. The contractor will not pitch up tents for laborers, materials and his stores etc.
22. No permanently / temporary huts / structures shall be constructed by the contractor at the site of work or at any government land / premises. Such structures, if any, found at the site or at AIIMS, Raipur land shall be demolished and removed at the cost of the agency without any notice.
23. Any damage to the building structure, fittings or any other articles etc. done by the contractor or his workman during the execution of the work shall be made good by the contractor at his own cost.
24. The contractor shall clear the site properly after the completion of the work.

25. The Agency shall be solely responsible for compliance to the provisions of various Labor and industrial laws, such as, wages, allowances, compensations, EPF, Bonus, Gratuity, ESI etc. relating to personnel deployed by it at AIIMS, Raipur site or for any accident caused to them and the institute shall not be liable to bear any expense in this regard. The Agency shall make payment of wages to workers engaged by it by the stipulated date irrespective of any delay in settlement of its bill by AIIMS, Raipur for whatever reason. The Agency shall also be responsible

For the insurance of its personnel. The Agency shall specifically ensure compliance of various Laws / Acts, including but not limited to with their re-enactments / amendments / modifications etc.

- (a) The Payment of Wages Act 1936.
- (b) The Employees Provident Fund & MP Act, 1952.
- (c) The Contract Labor (Regulation) Act, 1970.
- (d) The Payment of Bonus Act, 1965.
- (e) The Payment of Gratuity Act, 1972.
- (f) The Employees State Insurance Act, 1948.
- (g) The Employment of Children Act, 1938.
- (h) The Motor Vehicle Act, 1988.
- (i) Minimum Wages Act, 1948.

26. Breach of Terms and Conditions: Noncompliance of any terms and conditions enumerated in the contract shall be treated as breach of contract. Or In Case of breach of any terms and conditions as mentioned above, the Competent Authority, will have the right to reject the bid at any stage without assigning any reason thereof and nothing will be payable by AIIMS, Raipur in that event the EMD and /or Performance Guarantee and/or security deposit shall also stands forfeited.

27. Termination of Contract: AIIMS, Raipur would have the right to terminate the contract by giving one month's notice before the expiry of the term, in case the work performance is not up to the standard, or in case there is any violation of AIIMS, Raipur rules & regulations, or if there is any lapse in compliance of any labor legislation, or if there is any incident of indiscipline on the part of the bidder or his staff and the agreement may be terminated by either party by giving one month's notice to the institution. The decision of AIIMS, Raipur's management in this regard would be final and binding on the bidder. In such an event, AIIMS, Raipur shall have the right to engage any other bidder to carry out the task.

28. Arbitration: The Arbitration shall be held in accordance with the provision of the Arbitration and conciliations Act, 1996 and the venue of arbitration shall be at Raipur. The decision of the Arbitrator shall be final and binding on the both parties.

29. Dispute Settlement: It is mutually agreed that all differences and disputes arising out of or in connection with this agreements shall be settled by mutual discussions and negotiations if such disputes and differences cannot be settled and resolved by discussions and negotiations then the same shall be referred to the sole Arbitrator appointed by the Director, AIIMS, RAIPUR whose decision shall be final and binding on both the parties. The contract shall be governed by laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such commercial dealings/ processing.

30. Guidelines issued by Hon'ble National Green Tribunal in O.A. No. 21 of 2015 and

O.A. No. 95 of 2014 in the matter of VardhamanKaushik Vs. Union of India & other and Sanjay KulshreshthaVs Union of India & ors: Air Pollution of Dust from Construction and Demolition activity reg. issued vide letter No. DPCC/EIA/Ref-001 to 172/NGT-21/2015/225-408 dt. 17/04/2015 shall be complied by the Bidders.

#### **B. GENERAL CONDITIONS FOR SUPPLY OF MATERIAL**

1. The material shall be as per CPWD specifications with up to date correction slip and BIS Specifications wherever mentioned and as per List of approved makes (enclosed).
2. In the event of any variation between CPWD specifications and that in the IS Code the former shall take precedent over the later. In the event of variation between the nomenclature of item as per schedule of quantities and specifications, the former shall prevail.
3. ~~Material will be supplied by the contract or within 03 days after giving the requirement otherwise suitable amount imposed as a penalty shall be recovered from contractor's bill after giving notice as decided by the Engineer in charge. However, the materials in urgent nature shall be supplied within 02-03 Hours.~~
4. The sample of all the items shall have to be got approved by the Contractor from the Engineer-in-Charge/SUPERINTENDING Engineer or his Representative before the supply commences, the approval of sample shall be only in respect of workmanship and finish, and shall be without prejudice to the right of Engineer-in-Charge to get random samples tested out of the actual lot received as per additional conditions. This decision is the Prerogative of Engineer-in-Charge.
5. The contractor shall if required furnish the manufacturer's certificate that the material supplied satisfy the requirements of the relevant specifications.
6. The Engineer-in-Charge shall be at liberty to test respective sample (s) of each item of schedule of quantity in any approved laboratory as decided by him. The sample for testing shall be provided by the contractor. If the test proves satisfactory and the material is accepted, the testing charge in respect of satisfactory test shall be borne by the contractor.  
  
All other expenditure required to be incurred for making available the sample, conveyance and packing etc, shall be borne by the contractor himself. In case any sample of particular lot fails in testing the contractor shall be bound to replace the entire lot with fresh material of prescribed specifications and the rejected lot shall only be returned to the contractor after fresh lot is supplied. Testing charges in respect of failed sample will be borne by the contractor himself.
7. Rejected materials shall have to be removed by the contractor at his own cost within a week of the instructions of doing so. Also go down rent as decided by Engineer-in-Charge shall be charged by the department.
8. In case of any dispute regarding rejection of quantity of materials the decision of Engineer-in-Charge shall be final and binding upon the contractor.
9. Conditional tenders are liable to be summarily rejected.
10. The rates shall be quoted only in the schedule of quantities attached with the tender and nowhere else i.e. letter heads etc.
11. The contractors are specifically required to quote only one rate against each item. The rate Quoted for any item of material shall conform to the prescribed specifications.
12. The quantities are approximate and are liable to change up to any extent on either side. The

Engineer- in-Charge reserves right to order deviation from the quantities mentioned in the tender. The contractor shall supply the additional quantity on the rates quoted in the tender documents irrespective of deviation limit mentioned elsewhere in the agreement. The contractor shall have no claim to any payment or compensation whatsoever on account of any profit or advantage which might have derive from the execution of supply in full as mentioned in tender but which did not derive any consequence of the full supply of material mentioned in tender not having been ordered. It is not necessary to use all items in the BOQ/Schedule during contract Period. The use shall be based on the requirement at Site. Contractor cannot claim Payment against Storage of items to maintain the deadline of completion of work as per Tender.

13. The maker of material shall be same as that of actually installed/fixed at site. But, in case of non-availability or due to any reason, Engineer-in-Charge can take decision to install equivalent/new items available in the BOQ/Schedule. In case of any dispute the decision of Engineer-in-Charge shall be final with regards to make/brand of material.
14. For materials used in this work, the record shall be maintained at site in a standard Performa to watch quality and consumption of the material.
15. WORK EXECUTION

**Specialized Works:** Specialized works/items/jobs are those works that requires expertise/ specialized skill and are executed after prequalification of agencies. They require special T&P and/or specialized skill.

**Specialized works to be executed through- specialized agencies**

Specialized works are those works for which there are specialized agencies available in the market to execute them. These works are listed in NIT. These works should be got executed through such agencies only to ensure a proper quality of work.

Agencies acceptable to the department in a tender where there are components of such specialized nature of works and such works should be got executed only through associated agencies specialized in these fields. The contractor shall indicate the name(s) and address with experience certificates of his associated specialized agencies those fulfilling the above conditions as early as possible and within one month of award of work.

Agencies engaged by the main contractor are required to fulfill the laid down criteria. In case the main contractor himself meets the required eligibility criteria as laid down by the Department for specialized work, he is allowed to execute the same after due verification etc. The main contractor gives detailed execution programme of the work which forms part of his agreement with the department. He indicates in the programme, the time/stage of the work when the agencies of specialized components of works will be deployed by him. The main contractor enters into MOU with agencies associated by him for execution of specialized component as per conditions laid by Engineer-In-Charge.

The specialized firms satisfies the following eligibility criteria: Experience of having successfully completed works during last seven years ending on previous day of last day of submission of tender Three similar works each of value not less than 40% of the estimated cost put to tender. OR Two similar works each of value not less than 60% of the estimated cost put to tender. OR One similar work of value not less than 80% of the estimated cost put to tender. All amounts rounded off to a nearest convenient figure.

The main contractor has to associate agencies for specialized component(s) conforming to eligibility criteria and has to submit detail of such agency(s) to Engineer-in-charge of relevant component(s).within prescribed time. Name of the agency(s) to be associated shall be approved

by Engineer-in-charge of relevant component(s).

In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of relevant specialized component(s).

The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.

The main contractor has to enter into MoU with agency(s) associated by him. Copy of such MoU shall be submitted to Engineer-in-charge of each relevant component. In case of change of associate contractor, the main agency(s) has to enter into MoU/agreement with the new contractor associated by him.

### **C. PARTICULAR CONDITIONS**

- 1.1 The work under this contract shall be carried out all as per BOQ, General Conditions, Special Conditions and Particular Conditions forming part of this contract and general specification and other provisions contained in specification to the entire direction and satisfaction of Engineer-in-Charge.
- 1.2 The staff deployed shall be as per conditions mentioned in the BOQ. The Contractor shall submit details of qualification and experience of staff being deployed for this work before commencement of work for approval by Engineer-in-Charge. Being Hospital, the contractor shall ensure the antecedents of personnel be got verified from the concerned state authorities before employing.
- 1.3 The contractor shall be solely responsible for all personnel/ Operator / Technician deputed for the operation and Maintenance work.
- 1.4 The operating personnel shall be provided with protective clothing and shall wear them while operating. In case of any accident/injury, fatal or partially disability, the contractor shall be solely responsible for setting all claims/compensation. Department will have a right to recover any sum indicated/claimed by labour commissioner/ court directive. The workmen and contractor may get his personnel/ Operator / Technician insured as desired by him at his own discretion and expenses.
- 1.5 The tenderer shall submit names and address of the worker to be employed for operation and maintenance work for providing security passes after necessary scrutiny/check by the security agency. In case photo passes are required, contractor shall provide the same at no extra cost and same is deemed to be included in his quoted unit rates.
- 1.6 The contractor shall make good all damages at his/her/their own expenses caused due to negligence of operating staff; Decision of the Accepting Officer to the assessment of damage cost shall be final and binding on the contractor.
- 1.7 The installation shall be jointly inspected during operation/maintenance purposes and inventory shall be prepared duly signed by contractor and Engineer-in-Charge or his authorised representative for record. Major defects/replacement if any shall be noted at this stage. The contractor shall hand over the installation with all its mechanical, electrical and electronic auxiliaries in running condition on completion of period of contract.
- 1.8 Separate Log for Daily, Monthly and Quarterly Manning, Maintenance and Operation Details in the form of hard bound register shall be maintained by the contractor and get it duly signed Daily, Monthly and Quarterly from Engineer-In- Charge and/or his authorized Representative. The pro-forma of such Log shall be submitted by the contractor to Engineer-In-Charge for approval. The direction and decision of Engineer-In- Charge shall be final and binding.

- 1.9 Directions and Orders issued by the environmental pollution control board & CPHEEO norms for safety of installation and public safety shall be strictly followed by the contractor and shall be intimated to the Engineer-In-Charge by the Contractor.
- 1.10 The contractor shall provide necessary notice board in STP with complete details of staff(s) maintaining and operating plant, copy of safety certificate and Emergency Contact No. as per approval of Engineer-in-Charge.
- 1.11 Nobody will be allowed staying inside installations and no cooking, smoking, substance intoxication etc. shall be permitted inside Installation and in premises.
- 1.12 The orders and directions as issued by the Engineer-in-Charge shall be strictly adhered to any violation of orders and directions by the staff of the contractor will be severely dealt including handing over to the police custody especially if any individual is found intoxicated condition.
- 1.13 The installations shall be frequently visited by inspecting officer of AIIMS and shall be maintained and upkeep in a presentable condition at all the time by the contractor. Chart/Poster be taken care of and not allow become dirty.
- 1.14 The shutdown period, if required for carrying out repairs, will be jointly decided by both the parties or as directed by Engineer-In-Charge.
- 1.15 Payment to all categories of workers deployed by the contractor for this work will be done by the contractor as per labour law and labour Act including EPF and ESI.
- 1.16 Duty roster of staffs deployed by contractor shall be name wise and log sheet of attendance be maintained accordingly. Duty roster will be submitted by the contractor to Junior Engineer (Electrical) concerned with work for daily check and to Engineer-in-Charge for monthly check.
- 1.17 The Contractor shall make Monthly Payment to his/her/ their staff deployed for the work directly to the Aadhar Linked Bank Account of staff. The details of payment made shall be submitted to Engineer-In-Charge by the Contractor for record. All Labour Laws including EPF and ESI shall prevail and binding to contractor.
- 1.18 This work should be supervised by minimum level of JE E/M of the department.
- 1.19 DO's AND Don'ts : For the benefit of efficient functioning of the plant DO's and Don'ts are to be displayed at the installation and contractor's staff shall ensure adherence to these by his operators and supervisory staff.
- 1.20 Running Account Bills to be submitted by Contractor and payment to be made on monthly basis. The payment will be made for the actual work done as recorded in measurement book.

**D. Installations in STP & ETP are:**

**Installations in STP are:-**

- 1) Raw Pump - 03hp - 03Nos,
- 2) Sludge Pump - 3hp - 03Nos,
- 3) Blower - 30hp - 3Nos,
- 4) Filter Pump - 7.5hp - 02Nos,
- 5) Hydraulic Press - 2hp- 01Nos,
- 6) Dosing Pump - 01Nos,
- 7) Softener Feed Pump - 5hp- 02Nos,
- 8) Disposal Pump - 7.5hp - 02Nos,
- 9) Filter press Feed Pump - 02hp - 02Nos
- 10) Filter press - 01No.
- 11) Activated carbon filter - 01 No.

- 12) Sand filter - 01 Nos.
- 13) Softener filter - 01 Nos.
- 14) Ultrasonic Inline Water Flow meter- 3 nos.
- 15) LT panel - 02 Nos. etc.

**Installations in each ETP are:-**

- 1) Raw Pump – 01hp - 02Nos,
- 2) Sludge Pump – 01hp - 02Nos,
- 3) Blower - 7.5hp - 2Nos,
- 4) Filter Pump – 05hp – 02Nos,
- 5) Hydraulic Press – 01hp- 01Nos,
- 6) Filter press Feed Pump – 01hp - 02Nos
- 7) Dosing Pump - 03Nos, (PE doser, Chlorine doser, Alum doser)
- 8) Softener Feed Pump – 1hp- 02Nos
- 9) Disposal Pump - 01hp – 02Nos,
- 10) Filter press (Size- 470X470mm having no. of plate-18 nos.)- 1 no.
- 11) Sand filter - 01 Nos.
- 12) Activated carbon filter - 01 Nos.
- 13) Magnetic Inline Water Flow meter- 1 no.
- 14) LT panel - 01 Nos. etc.

**E. SCOPE OF WORK**

**1.1** The scope of this contract comprises of following works:-

- 1) The work under this contract includes Manning, Operation and Comprehensive Maintenance of installation as specified BOQ, the aforesaid General and Particular Conditions of Contract. The Manning of STP and ETP shall be in shifts including Sunday/Holidays as per BOQ and directed by Engineer-in-Charge.
- 2) The operator employed by the contractor shall be capable to handle the work of operation and maintenance of WTP/STP/ETP. The operator should be capable with experience and knowledge as specified in BOQ, well conversant with Operation and Maintenance of WTP/STP/ETP and as directed by Engineer-in-Charge.
- 3) Day to day operation of sewage treatment plant (STP) and effluent treatment plant (ETP) in round the clock basis 24x7 in coordination with other deployed agencies/ AIIMS Raipur representative.
- 4) Regular checking of inlet, outlet and various inter stage parameters as required for a smooth and reliable operation of treatment plant.
- 5) Regular back wash and rinsing of Multi-grade filter, Activated carbon filter & other process unit.
- 6) Regular monitoring of critical parameter like pH, TDS, TSS, Free Residual Chlorine etc. to ensure desired water quality at outlet as per frequency.
- 7) Checking of 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.
- 8) Sample of treated water should be collected in presence of JE/AE duly signed at register and Lab test of treated water shall be done monthly or as per the frequency set by Engineer-in-

charge or his authorized representative. The report should be submitted to office every month.

- 9) Providing, Preparing & Dosing Chemical Solutions of required concentration and quantity to be done by the contractor and as per directions of Engineer-In-Charge.
- 10) Supply of proprietary/ commodity chemicals (Hypo, Citric acid, PE, NaCl, Aluminium sulfate etc.) for the plant operation as and when required to maintain the required water quality. All to be done by the contractor and no reimbursement on this account shall be borne by the department. The rate quoted by Contractor in BOQ shall be inclusive of all services and including supply of such chemicals.
- 11) Submission of operation data as per Clients requirement.
- 12) Operation of treated water transfer pump for transfer of treated water from STP to Chiller plant, Flushing water tank and for horticulture purpose in coordination with other deployed agencies.
- 13) CPWD Specification, IS Specification, Environment guideline and Specification of OEM for installations along with Safety arrangement for maintenance of installation shall be observed by the staff of contractor.
- 14) The Contractor be responsible to ensure that additional mechanical, electrical, electronic parts or components of the plant/ its installation are made available to his/her/their technical staff so that replacement of parts can be done till the time rectification of equipment is under progress, to ensure uninterrupted, smooth and safe operation of water supply system.
- 15) Maintenance of all electrical panels & mechanical machinery including electrical panels and to follow daily / weekly/ fortnightly / monthly / annual checks.
- 16) Maintaining all sorts of daily/ Weekly / Monthly records as per the requirements such as log sheets, maintenance register, chemical dosing register, record for sludge handling, daily field test & laboratory test record, record for waste water coming to the plant and treated water transferred for different application, Plant operation / Shut down record, performance sheet of the system, electrical consumption record, breakdown cycle etc. to minimize the downtime and enhance the performance of entire system.
- 17) All records 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.
- 18) 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.
- 19) All types of T & P required for maintenance and operation of the system is to be provided by the contractor.
- 20) Provision of heavy lifting equipment like Hydra, Crain's, Forklifts, Chain pulley block with tripod etc. if required.
- 21) Supply of major and minor spares of the plant operation like lubricants, cotton waste, oil & grease, kerosene etc.
- 22) Supply of maintenance consumables like rustoline, gaskets, packing etc.



- 23) Providing safety shoes and other safety related equipment and accessories (Personal Protective Equipment) as required to all the operating staff deputed for O & M in the plant.
- 24) All the preventive & remedial measures to mitigate occupational safety & health risks shall be provided by the Agency in STP/ETP operations.
- 25) Painting of corroded MS pipes structure etc. as and when required.
- 26) Agency has to maintain STP, ETP and its periphery properly clean and tidy throughout the contract period.
- 27) In house technical expertise as and when required.
- 28) Agency has to carry out petty civil maintenance work in STP & ETP premises if required as per the directions of Engineer-in Charge.
- 29) Required Space is available for sitting arrangement. The agency has to maintain minimum table and chairs for sitting arrangement as required.
- 30) To obtain necessary clearance from pollution control board the service provider will provide all necessary documents & will cooperate during inspection.
- 31) The equipment / plant shall be handed over by AIIMS, Raipur to the service provider at the start of the contract and shall be maintained in line with manufacturer maintenance manual (to be handed over during handing over of the site) and as per instruction of Engineer-in-Charge.
- 32) Staff employed by the contractor should be well behaved, Polite & courteous. Any complaint against staff on behaviour should be taken very seriously and such staff should be removed by the contractor immediately from the site and replacement shall be provided immediately.
- 33) The installation of treatment plant shall be totally under the control of Contractor and no unauthorized persons shall be allowed to enter the premises. All installation and surrounding area shall be kept clean and tidy duly cleaning dusting of ceiling fans, electrical fittings, window glass panes etc. All walls, floors shall be kept clean and shall be advised not to put hand prints or posters etc. on walls.

## **1.2 MAINTENANCE RECORDS:**

- 1) The contractor or his representatives shall maintain the following records as per Proforma approved by Engineer-in-Charge.:-
  - a) Daily, Monthly and Quarterly log sheet register
  - b) Routine Maintenance register
  - c) Chemical dosing register
  - d) Daily field test & laboratory test record
  - e) Sludge handling record
  - f) Record for waste water coming to the plant and treated water transferred for different application,
  - g) Plant operation / Shut down record
  - h) Material Register for items mentioned in BOQ for material replaced while maintenance, repair of installation.
  - i) Attendances register etc.

- 2) Required stationary /registers to be provided by the contractor at his/her/ their own expenses. Nothing to be paid extra or reimbursed by AIIMS Raipur.
- 3) Register shall be maintained by the contractor showing date wise details. The periodical task carried out and entry shall be signed by both contractor and authorized representative of Engineer-in-Charge.

### **1.3 MAINTENANCE SCHEDULE & OPERATION PROCEDURE FOR PUMPING SYSTEM**

#### **Maintenance schedule**

##### **1) Preventive Maintenance of Pumping Machinery**

- a) Check Water - Seal Packing Glands for Leakage
- b) Check Grease - Sealed Packing Glands
- c) Operate Pumps alternately- keep motor windings dry and distribute lubricant in bearing.
- d) Inspect Pump Assembly
- e) Check Motor Condition
- f) Clean Pump – First lock out power and tag switch. Clean-out hand holes are provided on the pump volute. To clean the pump, close all valves. Then drain the pump and remove all solids.
- g) Check Packing Gland Assembly
- h) Check Mechanical Seals
- i) Inspect and Lubricate Bearings – Unless otherwise specifically directed for a particular pump model, drain lubricant and wash out oil wells and bearings with solvent. Check bearings to see that all rings turn freely with shaft. Repair or replace if defective. Refill with proper lubricant.
- j) Check Operating Temperatures of Bearings – Check bearing temperature with the thermometer, not by hand. If anti-friction bearings are running hot, check for over lubrication and relieve if necessary. If the sleeve bearings run too hot, check for lack of lubricant. If proper lubrication does not correct the condition, disassemble and inspect the bearing. Check the alignment of the pump and motor if high temperature continues
- k) Check Alignment of Pump and Motor
- l) Inspect and Service Pumps –
  - i. Remove the rotating element of the pump and inspect thoroughly for wear.
  - ii. Remove deposits or scales, if any. Clean out the water seal piping.
  - iii. Examine the wearing rings. Replace the seriously worn wearing rings to improve efficiency. Also, check the wearing rings for clearance. Generally, it should be no more than 0.003 inch, per inch on the diameter of the wearing rings.

##### **2) Daily Observations and Maintenance**

###### **A. Daily Maintenance**

- a) Clean the pump, motor and other accessories.
- b) Check coupling bushes/rubber spider.
- c) Check stuffing box, gland etc.
- d) Examine the earth connections and motor leads.

- e) Check the temperature of the motor and see whether it is overheated. The permissible maximum temperature is above the level which can be comfortably felt by hand.
- f) Check for any abnormal bearing noise.
- g) Check to see whether pump is giving the desired head.
- h) Check the direction of rotation of pump before start-up. The impeller should rotate in the clockwise direction. Also check for smoothness and noise, if any.
- i) Check to see whether pumps are giving desired output. If not, check for any obstruction.
- j) Check for any leakage, abnormal sounds, head etc. and rectify as required.

## **B. Routine Observations of Irregularities**

The pump operator should be watchful and should take appropriate action on any irregularity noticed in the, operation of the pumps. Particular attention should be paid to the following irregularities:

- a) Changes in sound of the running pump and motor
- b) Abrupt changes in bearing temperature
- c) Oil leakage from bearings
- d) Leakage from stuffing box or mechanical seal
- e) Changes in voltage
- f) Changes in current
- g) Changes in vacuum gauge and pressure gauge readings
- h) Spark or leakage current in motor, starter, switch-gears, cable etc .
- i) Overheating of motor, starter, switch gear, cable etc.

## **C. Record of Operations and Observations**

A log book should be maintained to record the hourly observations. It should cover the following items:

- a) Timing when the pumps are started, operated and stopped during 24 hours;
- b) Voltage in all three phases;
- c) Current drawn by each pump-motor set and total current drawn at the installation;
- d) Frequency;
- e) Readings of vacuum and pressure gauges;
- f) Motor winding temperature;
- g) Bearing temperature for pump and motor;
- h) Water level in intake/sump;
- i) Flow meter reading;
- j) Daily PF over 24-hour duration;
- k) Any specific problem or event in the pumping installation or pumping system e.g. burst in pipeline, tripping or fault, power failure.

## **3) Monthly Maintenance**

- a) Check for free movement of the gland of the stuffing box; check gland packing and replace if necessary.
- b) Clean and apply oil to the gland bolts.
- c) Inspect the mechanical seal for wear and replace, if necessary.
- d) Check the condition of bearing oil and replace or top up, if necessary.

e) Check the insulation resistance by meggering.

#### **4) Quarterly Maintenance**

- a) Check the alignment of the pump and its driver. The pump and motor should be decoupled while correcting the alignment, and both pump and motor shafts should be pushed to either side to eliminate the effect of end play in bearings.
- b) Clean oil lubricated bearings and replenish with fresh oil. If bearings are grease lubricated, the condition of the grease should be checked and replaced/replenished with the correct quantity. An anti-friction bearing should have its housing so packed with grease that the void space in the bearing housing should be between one-third to one-half. A fully packed housing will overheat the bearing and result in reduction of life of the bearing.
- c) Tighten the foundation bolts and hold-down bolts of pump and motor mounted on base plate or frame.
- d) Check vibration level with instruments, if available; otherwise by observation.
- e) Clean the flow indicator and other instruments and appurtenances in the pump house.
- f) Check for tightness of cable gland, lug and connecting bolts.
- g) Check the insulation resistance of the motor.
- h) Check and tighten foundation bolts and hold-down bolts between motor and frame.
- i) Check the vibration level with an instrument, if available; otherwise by observation.

#### **5) Annual Inspections and Maintenance**

A very thorough, critical inspection and maintenance should be performed once in a year. The following - items should be specifically attended to:

- a) Clean and flush the bearings with kerosene and examine for flaws developed, if any, e.g. corrosion, wear and scratches. Check the end play. Immediately after cleaning, the bearings should be coated with oil or grease to prevent ingress of dirt or moisture.
- b) Clean the bearing housing and examine for flaws, e.g. wear, grooving etc. Change oil or grease in the bearing housing.
- c) Examine the shaft sleeves for wear or scour and rectify, if necessary. If the shaft sleeves are not used, the shaft at gland packing should be examined for wear.
- d) Check the stuffing box, glands, lantern ring, and mechanical seal and rectify, if necessary.
- e) Check clearance in the wearing ring. It should be within the limit recommended by the manufacturer. An excessive clearance reduces discharge and efficiency of the pump. If the wear is only on one side, it is indicative of misalignment. The misalignment should be set right, and the causes of the same should be investigated. Normally, if the clearance in wearing rings increases by about 100 per cent for small pumps and 50-75 per cent for large pumps, the rings should be renewed or replaced to restore the original clearance.
- f) Check the impeller hubs and vane tips for any pitting or erosion.
- g) Check the interior of volute, casing and diffuser for pitting, erosion, and rough surface.
- h) All vital instruments i.e. pressure gauge, vacuum gauge, ammeter, voltmeter, wattmeters, frequency meter, tachometer, flow meter etc should be calibrated.
- i) Conduct performance test of the pump for discharge, head and efficiency.

- j) Measures for preventing ingress of flood water should be examined. Ingress of flood water in sump, well, tube-well or bore-well should be strictly prevented. A seal cap should be provided above tube-well/bore-well.
- k) Check the vibration level.

## **Operation Procedure**

### **1) Operation of the Pumps:**

Summarized below are a few points to be observed while operating the pumps.

- a) Dry running of the pumps should be avoided.
- b) Centrifugal pumps have to be primed before starting if they are not self-priming.
- c) Pumps should be operated only within the recommended range on the head discharge characteristic of the pump.
- d) Voltage during operation of pump – motor set should be within +/-10% of rated voltage. Similarly current should be below the rated current as per the name plate on the motor.
- e) Delivery valve should be closed at the time of starting. Pumps of high specific speed draw more power at shut off. Such pumps should hence be started with the delivery valve open. While stopping, the position of the delivery valve should be as at the time of starting.
- f) The delivery valve should be operated gradually to avoid surges.
- g) When pumps are to operate in parallel, the pumps should be started and stopped with a time lag between two pumps. The time lag should be adequate to let the pressure gauge stabilize.
- h) The stuffing box should let a drip of leakage to ensure that no air is passing into the pump and that the packing is getting adequate water for cooling and lubrication. When the stuffing box is grease sealed, adequate refill of the grease should be maintained.
- i) The running of the duty pumps and of the stand byes should be so scheduled that all pumps are in ready-to-run condition.
- j) If any undue vibration or noise is noticed, the pump should be stopped immediately and the cause for vibration or noise should be checked and rectified.
- k) Frequent starting and stopping should be avoided as each start causes overloading of motor, starter, contactor and contacts.

### **2) Starting the Pumps**

#### **i. Checks before Starting**

The following checklist should be gone through before starting the pump:

- a) Ensure that power is available in all three phases.
- b) Ensure that the trip circuit for relays is in a healthy state.
- c) Check voltage in all three phases. The voltage in all phases should be almost same and within +/-10% of rated voltage, as per permissible voltage variation.
- d) Check functioning of the lubrication system.
- e) Check stuffing box to ensure that it is packed properly.
- f) Check and ensure that the pump is free to rotate.

- g) Check over current setting if the pump has not been operated for a week or longer period.
- h) Ensure that the water level in the sump/intake is above low water level and the inflow from the source or preceding pumping station is adequate.

## **ii. Starting of Pumps**

The procedure for starting and operating the pumps is as follows:

- a) To start a non – priming centrifugal pump, the suction pipes and the pump should be fully primed. Positive suction centrifugal pump should be primed by opening the suction wall and letting out air from the casing by opening air vent. If vacuum pump is provided, the pump can be primed by operating vacuum pump till steady stream of water is let out from delivery of vacuum pump. In the absence of vacuum pump, priming can be done by pouring water in casing and evacuating air through air vent or by admitting water pumping main by opening bypass of reflux valve and delivery valve. Check all joints in suction pipe and fittings.
- b) Close the delivery valve and then loosen slightly.
- c) Switch on the motor, check that the direction of rotation is correct. If the pump does not rotate, it should be switched off immediately.
- d) Pressure gauge should be observed after starting the pump. If the pump is working correctly, the delivery pressure gauge should rise steadily to shut off the head.
- e) When the motor attains a steady speed, the delivery valve hold be gradually opened in steps.
- f) Check that ammeter reading is less than rated motor current.
- g) Check for undue vibration and noise.
- h) When in operation for about 10-15 minutes, check the bearing temperature, stuffing box packing, and for leakage through mechanical seal and vibrations, if any.
- i) Voltage should be checked every half an hour and should be within limit.

## **iii. Stopping the Pump**

### **Stopping the Pump under Normal Condition**

The following steps should be followed for stopping a pump of low- and medium - specific speed:

- a) Close the delivery valve gradually. Sudden or fast closing should not be resorted to; it can rise to water hammer pressures.
- b) Switch off the motor.
- c) Open the air vent in case of a submersible pump.
- d) Stop lubricating oil or clear water supply in case of an oil-lubricated or clear water lubricated VT pump as applicable.

## **iv. Stopping after Power failure/tripping**

In case of power supply to the pumping station fails or trips, following actions should be immediately taken.

- a) Close all delivery valves on delivery piping of pumps, manually if necessary, as actuators can-not be operated due to non-availability of power.
- b) Check and ensure that all breakers and starters are in open condition i.e. off position.
- c) All switches and breakers should be operated to open i.e. off-position.

Information about power failure should be given to all concerned, particularly to the upstream pumping station to stop pumping so as to prevent overflow.

#### **1.4 GENERAL SAFETY MEASURES:**

The Operator in STP & ETP 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.

- 1) Over exertion during operation of valves, moving weights and performing other tasks should be avoided.
- 2) Cover door of all underground tanks should be closed to prevent accidental falls.
- 3) Glass part as well as moving parts should be protected by screen or guards.
- 4) Adequate lighting within the plant and around the plant should be provided which gives better working facility reducing accidents on slipping etc.
- 5) 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.
- 6) A first-aid kit should be available readily at hand.
- 7) Exposure to ultraviolet light can cause serious burn to unproved eyes, skin. Wear eyes and skin protector.
- 8) 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.
- 9) 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.
- 10) 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.
- 11) Electrical connection
  - a) 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.

- b) Any defect(s) in shall be compulsorily reported by the contractor within 30 minutes of its occurrence to the Engineer-In- Charge or his authorised representative for the work.

e-sign by Rajesh Singh  
Lt. Col.

**Superintending Engineer**  
**AIIMS, Raipur**





## **TECHNICAL SPECIFICATIONS FOR INTERNAL AND EXTERNAL ELECTRICAL WORKS**

1. The work shall be carried out strictly in accordance with CPWD specifications for Electrical Works 2013 (internal) and 1995 (External) as amended up to date and in accordance with Indian Electricity Rules, 1956, Indian Electricity Act, 1910 as amended upto date and as per instructions of the Engineer-in-Charge including as below and nothing will be paid extra.
2. All materials to be used on this work shall be ISI marked & shall be got approved in written from the Technical sanctioning authority/Engineer-in-Charge before installation at site unless otherwise not covered under ISI.
3. PVC insulated Cu conductor wire used shall be multi-standard FRLS grade for which nothing extra shall be paid.
4. The work shall be carried out according to approved drawings/details which shall be subsequently issued to the successful tenderer for execution of work and as per instructions of Engineer-in-Charge who will have the right to change the layout as per requirement at site and the contractor shall not have any claim due to change in layout. The work shall be executed by skilled person Licensed by the approved authorities.
5. The size of conduit and wiring shall be got approved from the Engineer-in-Charge before taking up the execution.
6. The contractor shall make his own arrangement at his own cost for electrical / general tools and plants required for the work. Main Board and Main Distribution Board: The work shall be carried out according to the drawings / details are as approved by the Engineer-in-Charge. The contractor shall have to get the samples approved before the whole lot is brought to site and it shall include all inter connections etc. All termination of electrical cables in panel / feeder pillars DB's, cable-looping box etc. shall have to be done with proper thimbles / Cu lugs using crimping process. Copper thimbles / reducer shall be used for copper cable and Aluminum cable nothing extra will be paid for the same.
7. All materials shall be supplied and used in items of works by the contractor should be of standard and approved quality. They should be got approved from the Engineer-in-Charge or his authorized representative before installation otherwise no payment will be made for an unapproved or rejected material used on the works and the same shall be removed at his cost from site or work.
8. The contractor shall have to prove bonafide of the make of materials by producing necessary documentary evidence. They are advised to obtain prior approval of Engineer-in-Charge for proposed make of material, before bringing material to site work.
9. Location of light fixtures, cable routes, power & light point etc. should be prepared & got approved from the Engineer-in-Charge before execution.
10. All interconnection in the panel, DB, cable-looping boxes shall be carried out with suitable cable commensurate with the current carrying capacity of incoming and outgoing cables complete with thimbles etc. as required for which nothing extra shall be paid.
11. All panels, DB's, cable-looping boxes will be numbered and marked with paint / name plate, ferruling of circuit/submain etc and nothing extra will be payable on this amount.
12. All MCB, MCCB, MCB, DB's, RCBO's, RCCB with DB's shall be of same make / manufacturer.
13. Modular Switch / Socket's / Plates / Computer outlet / Telephone outlet and all accessories shall be of the single make only be provided. The contractor shall have to make the edges around the boxes wherever required shall have to be made by the contractor for which nothing extra shall be paid. The galvanized metal box shall be of the standard thickness as the GI boxes besides other requirement.

14. All the material should be ISI Marked unless otherwise clarification is not available and approved by the E-I-C.
15. The entire installation shall be at the risk and responsibility of the contractor until these are tested and handed over to the department.
16. Notwithstanding the schedule of quantities, all items of interrelated works considered necessary to make the installation complete and operative are deemed to be included shall be provided by the contractor at no extra cost.
17. The connection, inter connection, earthing and inter earthing shall be done by the contractor wherever required and noting extra shall be paid on this account All repairs & patch work shall be neatly carried out to match with the original finish & all damages caused to the building installation during the execution of work shall have to be made good by the contractor immediately at his own cost to the entire satisfaction of Engineer-in-charge. In case contractor fails to comply with the instructions of the Engineer-in-charge, Engineer-in-charge shall be at liberty to get the work done by any other agency and recover such amount as paid to the other agency from the bill(s) of the contractor. Contractor shall have no claim, whatsoever, on the extent of such amount.
18. The contractor shall have to provide the fish wire after removing the choking of the conduits. Even if subsequently the conduits are found choked, the choking will be get removed and / or the new conduits shall be provided at the risk and cost of the contractor.
19. Wherever ceiling roses are not required to be provided in the light/fan/exhaust fan points, due to site conditions, the contractor shall use suitable three pin connectors for which nothing extra shall be paid. Wiring shall be carried out with FRLS wires.
20. Contractor shall provide polythene/PVC plastic cover for all MDB's/SDB's/DB's, panels, feeder pillars etc to protect them from rust/damages, during execution of work till the work is actually completed and handed over to the department.
21. Makes of all items that are not covered in the schedule of work/additional specifications shall be got approved from the Engineer-in-charge and shall conform to relevant Indian Standard as applicable.
22. The contractor shall ensure that the staff employed by him for execution of the electrical work, possess the valid electrical license issued by competent authority. Consequences arising due to the default of the contractor in not complying with the above condition shall be the responsibility of the contractor.
23. Copper lugs shall be provided for terminating copper/aluminium/GI earth wire to all switchboards for which nothing extra shall be paid. All multi-stranded/ stranded wires shall be terminated through copper lugs.
24. All the hidden work and earthing shall be done in the presence of the Engineer-in-charge or his authorized representative.
25. The schematic diagram/dimensional drawings of the various electrical cubical panels shall be got approved from the Engineer-in-charge before fabrication and shall comply with CPWD specifications and Indian Electricity Rules. The panels shall conform to IS: 8623/1993. All panels shall be powder coated inside out, in shade approved by the Engineer-in-charge.
26. All floor-mounted panels shall be mounted on M.S. channel of suitable size on all the sides. It shall have a continuous earth bus of the same size and material as the main phase running continuously along the length of the panel extending on either side for earth connection.
27. The doors of all cubicle panels shall be hinged type including those of bus bar chambers and cable alleys. The locking shall be with chrome plated metal key locks. All doors shall be earthed with copper conductor wire as approved by the Engineer-in-charge.

28. The work shall be carried out according to drawing approved by the Engineer-in-charge. The layout once approved can only be changed by the Engineer-in-charge as per requirement at site. It shall be the responsibility of the contractor to plan the layout and get the approval from the Engineer-in-charge before laying the conduits etc.
29. The MCB should be of the same make as that of MCB DB's and having a minimum breaking capacity of 10 KA, C-curve. Contractor shall obtain approval of the Engineer-in-charge before procurement of MCB DB's.
30. All model of modular accessories required for the work shall be got approved from the Engineer-in-charge from among the approved makes. The base plate shall be preferably in sheet steel or otherwise in unbreakable polycarbonate. The cover plates shall be screw less type in shade approved by the Engineer-in-charge.
31. MCCBs shall be used with terminal spreaders and all terminals shall be shrouded to avoid direct contact.
32. All measuring and indicating instruments shall be protected through MCB's and isolating switches.
33. General arrangement drawing of the switchboard shall be prepared and got approved from the Engineer-in-Charge before commencement of manufacturing/installation.
34. For the items like LT panels, feeder pillars and accessories, etc, the firm shall arrange for inspection in the factory and provide for all facilities for testing. The cost of the visit of Engineer-in-Charge or his representative shall be borne by contractor. However, firm will be responsible for arranging the inspections as required.
35. Conduit layout as per switching arrangement shall be prepared by contractor and got approved from the Engineer-in-Charge before slab casting.
36. Conduit and termination to SDB and main board adapter box i/c connection wires to MCB,s inter connection between SDB and main board etc shall be included in the tendered rates and nothing extra shall be paid for the same.
37. The contractor shall provide junction boxes / looping boxes of required sizes and such boxes shall be measured as part of conduit / batten wiring without any extra payment.
38. M.S. dash fastener shall be used for installation of fittings and fixtures in ceiling and for providing suspenders for the angle support, conduiting, cable tray etc. for which nothing extra shall be paid
39. All CI/metal boxes & junction boxes should be cleaned properly and painted from inside before wiring & fixing the accessories.
40. Cables:-
  - (a) Cables shall be bought from manufacturer only as per approved NIT.
  - (b) The length of the cables required shall be measured w.r.t. site condition and these shall be delivered in section of approved length only, to avoid jointing as far as possible.
  - (c) Cable delivery shall be scheduled in consultation with department only.
41. Conduit layout drawing shall be got approval by Engineer -in-Charge before laying of conduit.
42. Conformity to specifications:-
  - (a) PVC insulated copper wire used shall be ISI marked and wire of the size 4.00 Sq. mm and above shall be of stranded conductors and all standard wires are required to be crimped for connections / terminations.
  - (b) All accessories like switches, sockets, C/roses, holders shall be ISI marked.
  - (c) Phenolic laminated sheet be of only ISI Marked. Covers for adopter box and function box shall also be of white phenolic laminated sheet.

43. Earthing connections:-

- (a) All fans & fittings are to be properly earthed for which no extra will be paid
- (b) Proper sleeving is to be provided to bare earth conductor in the switch boxes and also to bare Conductors used for inter switch looping inside the switch boxes for which no extra will be paid.
- (c) Termination of wiring inside DB's & main boards should be by crimped connections
- (d) Clamp type termination of earth strip (wherever provided) to pipe electrode will be made

44. Date of acceptance of the installation

- (a) After the Engineer – in – Charge is satisfied that the installation complies with requirements of specifications in all respect
- (b) The entire installation shall be at the risk and responsibility of the contractor until these are tested and handed over to the department. However, if there is any delay from the department side, the installation may be taken over in parts but the decision on the same shall be binding on the contractor

56. To carry out specialized or non-specialized work of electrical nature, technical labour to be minimum ITI qualified and should have experience of Electrical safety & wiring rules & to be authorized by contractor or sub-contractor.

57. Technical Specifications Compliance Report (Annexure-“I”, “II”, etc.)(If any) of LED fitting should be filled & get approved with supporting test report in written from the Engineer-in-Charge before supply/use at site.

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 SUPERINTENDING 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 his 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  
Superintending Engineer,  
AIIMS RAIPUR,  
TATIBANDH,  
RAIPUR – 492099

Dear Sir,

In consideration of the AIIMS RAIPUR, having offered to except 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.

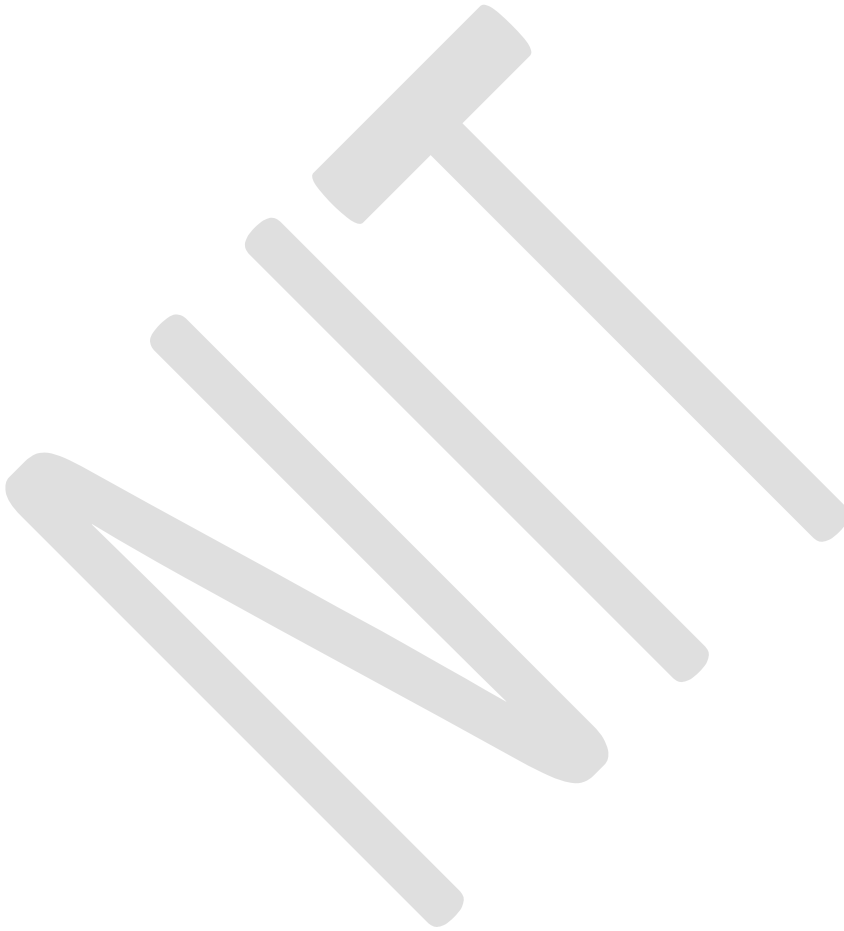
- 4 This guarantee shall not be determined or affected by the liquidation or winding up, dissolution, or change of constitution or insolvency of the Contractor but shall in all respects and for all purposes be binding and operative until payment of all monies payable to the Employer in terms thereof.
- 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 anyway 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 anyway 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 & equipments, 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 equipment's 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 Pollution control board.
- 5.2 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.
- 5.3 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.
- 5.4 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.
- 5.5 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.
- 5.6 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

- (17) Total station
- (18) Multimeter,
- (19) Meggar
- (20) Refrigerant Leak detector
- (21) Pipe Bender
- (22) Thermometer
- (23) Hygrometer
- (24) CFM Meter
- (25) Step Ladder
- (26) Cordless drill

## **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:

	SE'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	SE'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 SUPERINTENDING 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.

## LIST OF SPECIALIZED ITEMS / JOBS

### List I - Civil Works

1. \*\* Water proofing treatment work.
2. Steel work in steel bridge work, space frames for long span structures, steel towers.
3. \*\* Special foundations including all types of piles.
4. RCC Overhead Tank with independent staging.
5. Structural Repair and Rehabilitation/ Retrofitting works.
6. Soil Investigation and Survey Work.
7. \*\* Facade cleaning system and façade cleaning.
8. Custom made wooden furniture (factory made).
9. Diaphragm walls.
10. Post construction Anti-termite chemical treatment.
11. Water Treatment Plants
12. Security to vacant bungalows/premises.
13. Tentage works.
14. Washing/dry cleaning works.
15. Synthetic play area surface for games.
16. Electronic / Digital Signages.
17. Environment Impact Assessment Study and Environment Clearance.
18. Mechanized Housekeeping Work .

Note:

\*\*For these works, Specialized Agencies shall have to be associated by the duly approved specialized agency by Engineer-In-Charge in case the Contractor does not possess the requisite eligibility and experience as per the NIT conditions to carry out these works..

## **Electrical Works**

### **LIST- II (A)**

S. No. Supplying /fabrication, installation, testing and commissioning of the following

1. Kitchen equipment
2. Lifts, escalators and conveyors
3. Simultaneous interpretation systems
4. Gas plants.
5. Cold storage plant
6. Hot Water/Steam Boilers
7. Public address system; conferencing system, automatic vote recording system, recorders
8. Stage lighting
9. Projector and other special equipment for theatre
10. Repairs and calibration of various types of measuring instruments and relays etc.
11. Testing of transformer oil and dehydration and other type of high potential test.
12. Frequency Convertor
13. Temporary illumination, security lighting and wiring for power outlets for metal detectors in connection with Republic Day and Independence Day Celebrations.
14. EPBAX system (equipments).
15. EPBAX system (cabling and wiring).
16. Illumination of heritage caves and fiber optic lighting system
17. Security system and alarm
18. Building Automation System
19. Hydraulic platform /Lift
20. Incinerator
21. Laundry equipment
22. Centralized clock system.

23. Interior/exterior flood lighting of heritage/Monumental buildings/structures involving Computer aided design and evolution of special mounting arrangements for luminaries:
24. Gas pipe line
25. Modular OT
26. Electrically Operated Gate
27. Fountain Work
28. Water supply motors and pumps of 100 hp or more
29. Mechanized Car Parking Systems
30. VRV/VRF Type Air-Conditioning Systems
31. Oxygen Generation Plant
32. CCTV and Allied Equipments
33. Access Control System
34. Hydro Pneumatic Pumps
35. Providing and fixing of Sensor operated Gates
36. Precision Air Conditioning System
37. LAN System
38. SITC of active power factor filter
39. SITC of Solar Photo Voltaic Power generation system

**LIST-II (B)**

S. No. Supplying /fabrication, installation, testing and commissioning of the following

1. Diesel Generating Set
2. Heating, Ventilation and Air-conditioning System
3. Sub-station equipment
4. Fire fighting system (including wet riser and sprinkler system, portable fire extinguishers)
5. Fire detection and alarm system

**NO CLAIM CERTIFICATE**

**(On company letterhead)**

To,

The Superintending 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: .....

## APPROVED MATERIALS LIST (CIVIL)

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 then, 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.

1.	Acid/Alkali Resistant Tile	Somany/ Nitco/ Kajariya/ Bell
2.	Premium Acrylic Emulsion Paint: Interior	Asian (Royale)/ ICI (Velvet)/ Berger (Luxol Silk)/ Nerolac Impression
3.	Admixures& Epoxy	FOSROC/ Aquomix/ BAL-ENDURA/ROFF/Dr.Fixit/CICO/SIKA/BASF
4.	Aluminium Composite Panel	Alpolic/ Aluco Bond/ Reynobond/ Euro bond/ Al-strong/Aludewr
5.	Aluminium Extrusions/ Sections	Hindalco/ Indalco/ Jindal/Indian Aluminium Co.
6.	P.T.M.T. Accessories	Prayag, PRAKASH, SHURYA/Supreme/Kingston
7.	Annealed Float Glass	Saint Gobain/ Modi Guard/ Hindustan Pilkington/TATA
8.	Centrifugally Cast Iron Pipe & Fittings	Neco/ RIF/ Kapilansh/ BIC/SKF/Electrosteel
9.	Ceramic Tiles	Kajaria/ Somany/ Nitco/ Orient Bell/ Johnson/Varmora/AGL/OASIS/Marbito
10.	Cement Concrete Chequered tiles	Raj-Tiles/ Bharat/ Rigid Tiles/Advance/Ultra Tiles/NITCO
11.	CP Bottle Trap	Parryware / Hindware/ Jaquar/ GRAFDOER by VMS BathwarePvt. Ltd./Prayag
12.	CP Brass Bibcock/ Pillarcock/ Stopcock/ Angle Valve/ Concealed Stop Cock & CP fittings (Normal Range)	Marc(oriental series)/ Parko/ Jaquar (Continental series)/SPRING COLLECTION OF PRIMA /GEM/ESS/Plumber/ GRAFDOER by VMS BathwarePvt. Ltd. /L&K Metro/Vardhman/'Coral' series of parryware/'JOY' & 'VINTAGE' series of KEROVIT by Kajaria /Prayag
13.	CP Waste Coupling	Mark/ GRAFDOER by VMS BathwarePvt. Ltd./ Parko or equivalent /Prayag
14.	Curtain Carrier	Vista levlor or equivalent.
15.	Dash fastener/ Expansion Bolt/Stone Cladding Clamp	M/s DevAshish/HILTI/Fischer/Bosch/Wurth/Trixel.
16.	Door closer/ floor springs	Dorma/ Haffle/ Falcon/Godrej/Dorset/Kich/Sandhu/Hardwyn
17.	Drapery Rod	Vista Levlor or equivalent.
18.	Flushing cistern (single/Dual Flush) as per IS: 7231	Sleek Dual flush PVC cistern of Hindware / 'Slimline'ofParryware /Prayag
19.	EPDM Gasket	AnandLescuyer or equivalent.
20.	Epoxy Primer & Paints	Berger/ Pidilite/ CICO/ BASF/ SIKA/Asian/Nerolac/ICI Kansai Akzo Nobel.

21.	Fibre Glass Shelf	Kamal/ Bath King or equivalent.
22.	Float/Clear/Frosted/Toughened /Refractive Glass	Modi Float/ Saint Gobain/ Asahi/AIS/Modiguard.
23.	Flush Doors / Shutters as per IS: 2202	Kutty flush door/ Anchor/ Century/ Kitlam/Archid/JAYNA/Ashiyana Brand by Evergreen Industries/ Bhimsaria Door/ Century/ Greenply /Archid/Kitply/Selected Products Company/Jain Doors pvt. ltd./Duro/Durian
24.	Flush Valve	Aquel/ Marc/ Parryware/ Jaquar /Prayag
25.	FRP Shutters/frame	Fibre Glass Engineers/ Raipur/ Aashoo Model or equivalent/JAYNA/ Selected Products Company.
26.	Galvanized/Stainless Steel Anchor Fasteners	Shakti/ Arrow/ Hilti/ Fischer
27.	GI fitting	Tata/ Jindal/ Zenith/UNIK/AVR/Zoloto.
28.	GI Pipe	Tata/ Zenith/ Jindal (HISAR)/Prakash Surya.
29.	Glass Mosaic Tile	Bissazza/ Saon or equivalent.
30.	Gun Metal Gate Valve	Zoloto/ Leader/ SAINT
31.	False Ceiling system	Boral Gypsum / India Gypsum/ Laffarge/ St. Gobain(Gyproc)/ Armstrong/Hunter Douglas/Aearolite/Gridsquare/Interarch
32.	Hardner	Hard crete of Snowcem India/ MC Deritop F.H.
33.	Jet Assembly for EWC	Parryware/ Jaquar/ Grohe/ Kohler
34.	Laminate	Marino/ Greenlam/ Decolam/ Century/ Formica/ Kitlam/Action TESA/Sunmica/Durian
35.	Low Level PVC Cistern Single flush	Sleek model Cistern of PVC of Hindware or 'Slimline' model of Parryware, JINDAL /Prayag
36.	Melamine Polish	Melamine Gold of Asian Paint/Wudfinof pidilite/Timbertone of ICI Dullex/ Beegel.
37.	Metal False Ceiling	Nittobo / Armstrong / Trac / Durlum / Huntordonglas/Aerolite
38.	Mineral Fibre/Calcium silicate Ceiling	Armstrong / Nitobo / Daiken / Hunter Douglas/ Aerolite
39.	Modular SS Railing System	Metallica India / Stark steel Fabricator / D-line International Denmark / Mobel Hardware.
40.	M.S .Pipe (Railing)	Jindal / Prakash Surya/ Tata/ RINIL
41.	Marine Plywood / BWP Ply	Kitply / Duro / Century/ Greenlam/ Durian
42.	Non asbestos high impact polypropelene reinforced Cement sheet	Everest or equivalent
43.	Oil Bound Distemper/Dry Distemper	Asian (Professional Acrylic Distemper)/Maxilite of ICI / Bisan of Berger/Nerolac (Beauty Acrylic Distemper)
44.	Water closet (Orissa Pan/Indian type) & fittings, accessories as per IS : 2556	Parryware / Hindware / 'KEROVIT' by Kajaria/ESSCO by Jaquar.
45.	PE-AL-PE Composite pipes	Jindal or equivalent.
46.	Plastic Connection Pipe	Parryware/Kamal Delux or equivalent.
47.	Plywood/Veneer	Archid/ Kitply/ Green ply/ Century/JAYNA/Green Ply/Merino/Duro/Durian
48.	Polyester Powder Coating	Nerolac/ Berger/ J&N
49.	Poly Sulphide Sealant	PIDISEALbyM/s Pidilite Industry/RDL941-

		TECHSEALChokseyChemicals/BASF/SIKA/Fosroc
50.	Polymer Modified Cementitious grout	BalEndura/ PidiliteKeroKoal/Ultratech/Ardex/Ferrous Crete.
51.	Pre-laminated Particle Board IS : 12823 (Gr-I/ Type-II)	Kitlam/ Tesa/ Archidply/Eco brand/Century/Bhutan board/Action Tesa/Greenlam/Merino
52.	Primer (Cement Primer)	Decoprime WT of Asian/ white primer of ICI/BP white of Berger/ Nerolac
53.	PVC Rain Water Pipe & Fitting	Finolex/ Classic of Kisan/ Kasta/ Supreme/AKG.
54.	PVC Shutter and frames	Rajshri/ Sintex/Polyline/Duroplast/Jain wood Industries.
55.	PVC Tiles	Arm Strong/ LG or equivalent.
56.	Screws	GKW / Nettle Fold or equivalent.
57.	Silicon Sealant	G.E./ DOW Corning/Waker/BASF/Pidilite/ROFF
58.	Solid Plastic Seat Cover for EWC	EWC standard seat cover white of Parryware/Hindware/'KEROVIT' by Kajaria
59.	Stainless Steel	Jindal Stainless Steel/ Salem Steel
60.	Stainless Steel Screws	Kundan/ Arrow or equivalent.
61.	Stainless steel Sink with or without Draining board.	Nirali/ Hindware/ Frankee/ Cobra/AMC/ GRAFDOER by VMS BathwarePvt. Ltd./Parryware/Neelkanth/Nirali
62.	Structural Silicon Sealant	Dow Corning/ Wacker/ GE/ Du-pont
63.	Structural steel	TATA/ SAIL/ RINL/TISCO/JSW Steel ltd./Jindal steel & Power ltd.
64.	Super plasticizer	MC Baucheme/ Sika/ Fosroc
65.	Synthetic Enamel Paints	Gloss Synthetic Enamel of ICI(Dulux)/Asian (Apolite Premium gloss)/Berger (Luxol Hi Gloss)/ Synthetic Hi Gloss of Nerolac
66.	Terrazzo tiles /Mosaic Tiles	Raj-Tiles/ Bharat/ Rigid Tiles/NIC/A-1/GTC
67.	Cement Concrete Paver Block &Kerb stone	Rigid Tiles/ Raj-Tiles/Advance
68.	Textured Exterior wall paint	Spectrum/ Ultratech / Heritage by Bakelite coating and paints/Asian paint/Berger/Nerolac/Luxture.
69.	Towel Ring/Towel Rod/Towel Rack	Kamal/ Marc or equivalent /Prayag
70.	Pre-Painted/powder coated CRC windows	M/s classic engineers and fabricators/ M/s JK Enterprises Jaipur/ Nclalltek&seccolor ltd. Hyderabad/ ultimate safety metals.
71.	Veneer	Archid/ SUN/ Durian/ Ventura/ NLDK
72.	Virtuosos China Wash Basin Oval	Hindware / Parryware /KEROVIT' by Kajaria/CERA/Jaguar/ESSCO by Jaquar /Prayag
73.	Vitreous China Floor moulded European with Cistern Complete	Parryware / Hindware /KEROVIT' by Kajaria/ CERA/Jaguar/ ESSCO by Jaquar /Prayag
74.	Vitreous China Floor Mounted European W.C. without cistern	Parryware / Hindware /KEROVIT' by Kajaria/ CERA/Jaguar/ ESSCO by Jaquar/Prayag
75.	Vitreous China Half stall Urinal	Model No. 6002 Urinal flat back large of Hindware or magnum of Parryware/ ESSCO by Jaquar/Prayag
76.	Vitreous China laboratory Sink	Hindware / Parryware /KEROVIT' by Kajaria/ CERA/Jaguar/ ESSCO by Jaquar/Prayag
77.	Vitreous China Low Level Cistern for European W.C.	Hindware / Parryware /KEROVIT' by Kajaria/ CERA/Jaguar/ ESSCO by Jaquar/Prayag

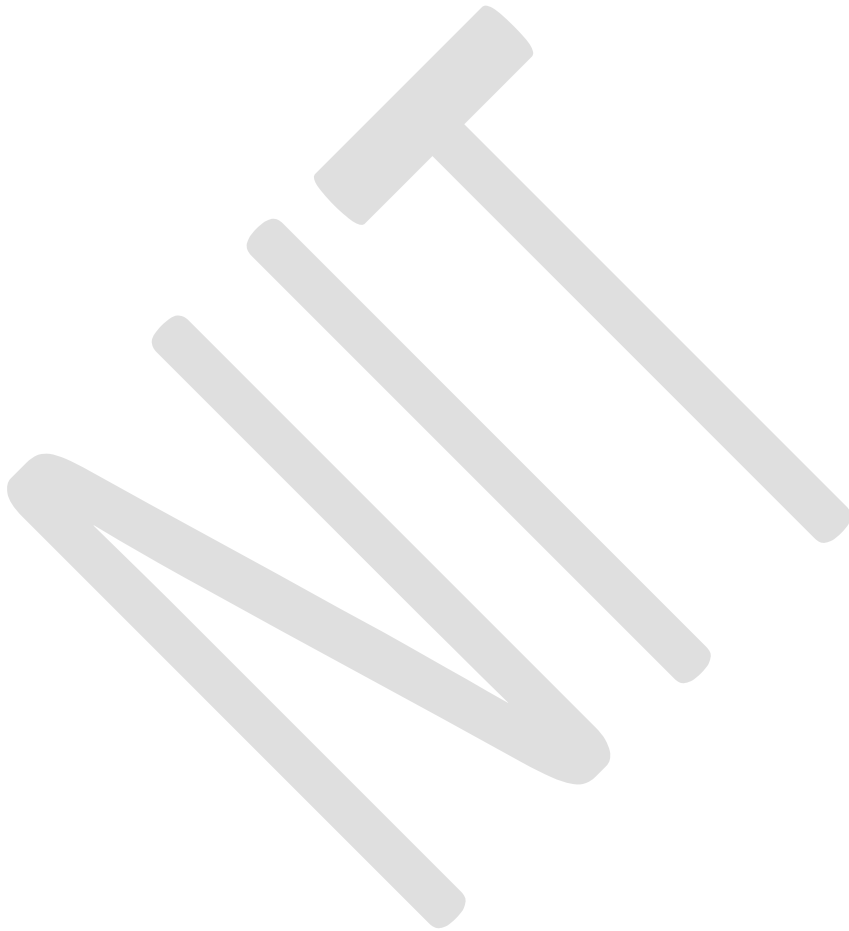


78.	Vitreous China Pedestal for Wash Basin	Pedstal of Parryware / Hindware or equivalent/ CERA/Jaguar/ ESSCO by Jaquar/Prayag
79.	Vitreous China Wall Mounted W.C. with vitreous Cistern (component)	Parryware / Hindware /KEROVIT' by Kajaria/ CERA/Jaguar/ ESSCO by Jaquar/Prayag
80.	Vitreous China Wall Mounted W.C. without Cistern.	Parryware / Hindware /KEROVIT' by Kajaria/ CERA/Jaguar/ ESSCO by Jaquar/Prayag
81.	Vitreous China Wash Basin Rectangular without Pedestal	Hindware / Parryware /KEROVIT' by Kajaria/ CERA/Jaguar/ ESSCO by Jaquar/Prayag
82.	Vitrified /Porcelain Tile	Marbograni/ Euro/ Somany/ diamond of Naveen /Granamite of Bell /OASIS/ceramic/ Granito/ Kajaria/ M/s Restile//Rak/ Johnson/Nitco/ Varmora/AGL/Marbitto.
83.	Waste Pipe	Kamal with brass checknut/Viking
84.	Water Proofing Compound (Liquid)	Pidiproof Ltd./CICO/ Super plast by M/s Structural water proofing/ Impermo/FOSROC/Dr.Fixit (Pidilite Industries))/BASF/ROFF/SIKA/ArdexEndura (BalEndura).
85.	White Cement	JK White/ Birla White.
86.	CPVC Pipes as per IS: 15778	AKG/Ashirvad/PRIME FLOW OF KRISHI POLYMERS/Supreme/KSR by Kisan irrigation/Flowguard plus by finolex/Prince /Prayag
87.	Teak wood/hard wood wire mesh & panel doors	A-1 Teak product Indore or equivalent.
88.	Reinforcement steel	Tata/Sail/RINL/Jindal/Jindal steel & power ltd.
89.	Block Boards as per IS: 1659	JAYNA/Century/Greenply/Archid/Kitply or equivalent.
90.	Brass bib cocks/stop cock	Marc/Parko/Jaquar/SPRING COLLECTION OF PRIMA as per IS : 781 or equivalent/Prayag
91.	Brass ball cocks (Float valve)	Marc/Parko/Jaquar /SPRING COLLECTION OF PRIMA as per IS:1703 or equivalent/Prayag
92.	Water meter	SPRING COLLECTION OF PRIMA as per IS: 779 or equivalent.
93.	HDPE Pipes as per IS:4984	KRISHNA plast pipes/KSR by Kisan irrigation/Supreme/Reliance/Jain
94.	uPVC Pipes as per IS: 4985	KRISHNA plast pipes/AKG/ KSR by Kisan irrigation/Supreme/Astral/Prince/Ashirwad/Prayag
95.	uPVC Screen and casing pipes for bore well/tube well as per IS : 12818	KRISHNA plast pipes/KSR by Kisan irrigation/Supreme/Prayag
96.	uPVC-SWR Pipes SN 8 as per IS: 13592	KRISHNA plast pipes/KSR by Kisan irrigation/Finolex/AKG/Supreme/Prince/Ashirwad/ Astral/Prayag
97.	Wooden Shutter with frame	Siesto Brand by Bramsaria doors or equivalent.
98.	uPVC Windows/Doors	SIESTO Brand by Bhimsaria Polymers/Duroplast/Fenesta/Komerling/Wintech/Al uplast
99.	Cement (OPC/PPC)	A.C.C., Jaypee Cement, Ultratech, Shri Cement, GujratAmbuja Cement and Cement Corporation of India.

100.	Corrugated GI Sheets	Tata, Essar , Sail JSW, Bhusan
101.	Colour coated profile sheets	Tata (Ezydeck)/Lloyd Superdeck/JSW/Jindal
102.	Float Glass Profile Sheet TATA (transparent)	Tata, Modiguard, Saint Gobain
103.	Aluminium doors & window fittings (Heavy duty)	Jyoti , Argent, Everest/Kilong/Alualpha/classic/Ebco
104.	Steel/Wood primer / paint	ICI delux, nerolac, berger, asian
105.	Bitumen 85/25	HPCI, IOCL
106.	PVC water storage tanks	Sintex, water well, Siltank, Polywell/Plasto/ 'SILTANK' by Supreme
107.	Bitumen VG-30, VG-10 etc.	As per particular specification of item from IOCL, BPCL, HPCL.
108.	Rigid Phenolic foam for cold and hot insulation as per IS: 13204	Phenotherm manufactured by Bakelite Hylam ltd
109.	Surface Texture Finishes	Heritage manufactured by Bakelite Coatings & paints ltd. or equivalent
110.	FRP Chhajjas	Selected Products Company or equivalent.
111.	FRP Porta cabin	Selected Products Company or equivalent.
112.	G.I. Wire-mesh/Netting	Selected Products Company or equivalent.
113.	Wall Putty (White Cement based)	Buildwell (Walplast Products Pvt. Ltd.)/Birla wall care/JK white/Berger/Asian paints/ferrous Crete
114.	AAC block	'Ecorex' manufactured by EcorexBuildtechpvt. Ltd. or equivalent.
115.	UPVC Agriculture/Pressure pipes and fittings	AKG Extrusion Pvt Ltd. or equivalent /Prayag
116.	UPVC underground drainage & sewerage pipes SN 8 as per IS:15328	KSR by Kisan irrigation/Finolex/AKG/Supreme/Prayag
117.	Fabrication of aluminium& UPVC doors, windows, Facades including ACP and glazing work	Skyler World or equivalent.
118.	Fabrication of aluminium structural glazing and aluminium doors & windows.	KANHA ALU AND FAB PVT. LTD., Raipur or equivalent.
119.	Processing and fabrication of glass (toughened, DGU and lamination	Wadhwa Glass Works (P) Ltd., Raipur or equivalent.
120.	Glass reinforced Gypsum (GRG) false ceiling	'Diamond' manufactured by Diamond International Inexpvt. Ltd/Gyproc by Saint Gobain.
121.	Wooden shutter with frame	'Bhimsaria' or equivalent
122.	PPR-C pipes as per IS: 15801	KSR brand/Supreme/Prayag
123.	PVC fittings as per IS: 10124 and IS: 7834	KSR brand or equivalent/Prayag
124.	PVC underground draingae pipes (structured wall type) as per IS: 16098	Supreme or equivalent/Prayag
125.	PVC septic tanks	'Safegard' by Supreme or equivalent
126.	PVC underground water tanks	'Amrutam' by Supreme or equivalent
127.	PVC readymade toilet blocks	'Cleanage' by Supreme or equivalent
128.	PVC chambers & Manholes	Supreme or equivalent

129.	Pre-Painted/powder coated CRC windows	M/s classic engineers and fabricators/ M/s JK Enterprises Jaipur/ Nclalltek&seccolor ltd. Hyderabad/ ultimate safety metals.
130.	White cement based polymer modified self curreingmortor	Ultratech/Dr.Fixit/ Sika/ Fosroc
131.	Gypsum plaster	Ferrous crete/ Gyproc (Elite-90)/ Ultratech
132.	Tile Adhesive	Ferrous Crete / Ardex/ Endure (Gold Star)/ Pidilite (Fevimatex)/ Weabr (Saint Gobain)
133.	Integral water proofing compound with cement (for plaster & mortar)	FOSROC/ Conplast 421/Dr.fixit : LW+/ Sika : sikacim/Asian Paints: Smart care vitalia& equivalent product of BASF/CICO/ArdexEndura
134.	Water proofing for bathroom/toilet/balcony & other wet areas.	Fosroc: Brush Bond/CICO:Tapecrete/Dr.fixti : Pidilite 2k/Sika: Nito Bond/Asian Paints: Damp Block 2k & Equivalent Product of BASF/Ardex endure
135.	Crystalline water proofing compound.	Fosroc : Fosroc crystalline/Dr.Fixit: Dr.fixit crystalline/Sika: Sika Crystalline/Asian Paints:Crystalline Quart & Equivalent Product of BASF/CICO/ArdexEndura
136.	Polycarbonate sheet	GE Plastic/Lexan/MG Polyplast
137.	Fire rated doors	Signum fire protection/Shakti Metdoor/NAVAIR/Sukri/Promat International
138.	Stainless steel railing Accessories	Jindal/Dorma/Kich/GEZE/Godrej/Hardwyn
139.	Stainless steel door & windows fittings	Jindal/Dorma/Kich/Dorset/Godrej/Ozone
140.	Acrylic Distemper 1 <sup>st</sup> quality (washable/Readymix/Low VOC)	Asian Paints (Tractor Aqua Lock Paint)/ Berger: commando or equivalent paints of Nerolac or ICI-Dulux.
141.	Plastic emulsion plaint	Asian paint: (Apolite Heavy Duty Premium Emulsion paint)/ Nerolac :Impressio/Berger:Easy clean/ICI-Dulax:Velvet touch
142.	Acrylic Smooth Exterior Paint	Asian Paint : (Apex/ Professional Premium Exterior Emulsion/ Nerolac: XL/Berger: Weather coat/ICI-Dulux: Weather Shielded
143.	Premium Acrylic Smooth Exterior Paint with Silicon Additive	Asian paint: Apex Ultima/Nerolac: XL Total/Berger: Weather coat all guard/ICI dulux: Weather Shield max
144.	Fire paint	Asian paints/Akzo Nobel Coatings India ltd./ PROMAT/Jotun
145.	D.I. Pipes & fittings	Electrosteel/Jindal/Tata Ductura/Kapilansh/Kesorom
146.	C.I. manhole covers, frames & CI Gratings	Neco/Raj iron Foundary Agra/BIC/SKF/Kapilansh
147.	SFRC manhole cover & Grating	K.K./Jain Pragati
148.	C.P. Brass fittings (Superior Range)	Jaquar/Grohe/Roca/Prayag
149.	Sanitary ware fittings & Accessories (Superior range)	Kohler/Roca/Hindware/Parryware/Prayag
150.	Mirror glass	Atul/Modi Guard/Golden Fish
151.	Extruded Polystyrene Insulation	Dow Corning/Supreme/Taxes/Analco

	Board	
152.	Heat Resistant Tiles	Swastik/Thermatek
153.	Floor Hardener	Ironite/Ferrok/Hardonate
154.	Modular Expansion Joint	Herculus/Sanfield India Ltd. Vexcolt
155.	Glass Wool	Dow Coring/ U.P. Twinga/Isover
156.	UPVC Doors and window hardware	Rotto/Dorset/Kinlong
157.	AAC Block adhesive	Ecorex/Ultratech/ArdexEndura/Ferrous Crete
158.	Ready Mix Plaster	Ultratech/Ferrous Crete/Saint Gobain
159.	Post tension slab	Ultracon technology limited/Tech-9/CRUX
160.	Acoustical Wall paneling	Hush or equivalent to be decided by Engineer-in-charge.



**APPROVED MATERIALS LIST (ELECTRICAL)**

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 then, 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.

Sl. No.	Item	Acceptable Makes
1	PVC insulated Copper wire / Telephone wire	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 Caping	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/Anchor/Havells/Bajaj.
10	Modular Switch / Socket / Blanking Plate /PVC Box / Metal (GI) Switch Box (the gauge of GI Box shall not less than 20 SWG, of the same make that of Switch) Front Plates, Telephone, T.V. Outlets Socket / Fan Regulator.	Crabtree (VERONA), Anchor (Vision), L&T (Entice), MK (Citric), Legrand (Myrius), Schneider (Opale)/Roma
11	Lamp for (light fittings)	Philips / Osram/ GE/ Bajaj/ Wipro/Crompton/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/Havells/KEI/ Polycab.
13	Galvanize Octagonal Street light pole/ High Mast & galvonised bracket.	Bajaj/ Transrail/ Valmont/Aster.
14	HRC Protection Fuses/ Fuse Fittings.	Siemens/ L&T/ Schneider /ABB

15	Selector Switches/ Indicating Lamps (LED type)	AE/ Enercon/ L&T/ Neptune/ Conserve/ Secure/ Keycee/ Vaishnav
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
22	Power contactor	L&T / Siemens / Schinder/Legrand /ABB
23	Fluorescent Tube Fittings	Surya/ Keslec/ Trilux,/ Bajaj,/ Osram, /GE , Wipro,/ Crompton/ Philips /Halonix
24	Tap-off Box (Plug in Type), End Feed Unit	C&S Electric & Switchgear, L & T, ABB, Siemens, Schneider, Tricolite
25	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.
26	MPCB	L&T, ABB, Siemens, Schneider
27	LED fittings	Havells/Wipro/CGL/Philips/Bajaj/Osram/Halonix
28	LED Make	Nichia / citizen/ Lumileds / APT Electronics/Cree/Osram /Bridgelux.
29	Static Voltage Stabilizer	Reputed make as approved by Engineer-In-Charge
30	Loudspeaker, Amplifier, Volume Controller,	JBL,BOSE,BOSCH, Electro-Voice, Sennheiser, D & B audiotechnik, meyer Sound
31	Ceiling Fan	Havells/Bajaj/Usha/Crompton/Halonix

LIST OF APPROVED MAKES OF MATERIALS

**MANUAL FIRE ALARM SYSTEM**

1	Fire alarm Zonal Panel, Main Control Panel , sounder MCB, Talkback unit/ <b>Response Indicator</b> /Detector	Agni Instruments Engineers India Pvt ltd Okhla New Delhi/ Safeway Security System / Electroquip / Steel age Industries (Minmax)(Honeywell)/Edward
2	Amplifier/Microphone/Hooter	Ahuja/Philips/ <b>Agni Instruments Engineers / Safe way security System / Agni suraksha</b>
3	CO2/ABC fire extinguisher	Minimax/Ceasefire/Kanex(All with ISI marked)
4	<b>Smoke dectectors</b>	<b>Apollo series 65 / system sensor</b>

- 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.
- 2) If for any Material Makes not given. It should be got approved from the Engineer-in-charge.

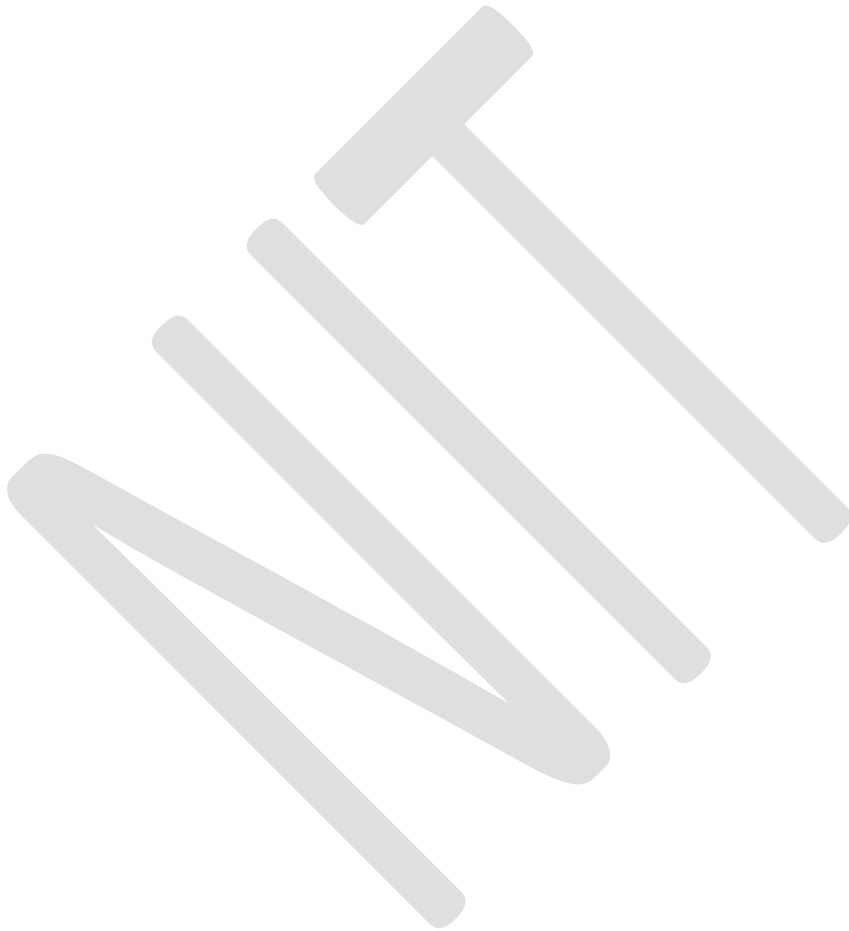
**LIST OF APPROVED MAKES OF MATERIALS (Wet Riser System)**

SNo	Details of Equipment / materials	Make
1	<b>Terrace Monoblock pump set</b>	Kirloskar model – KDS- or similar model of Mather & Platt / Grandfos/Wilo/Jyoti.
2	<b>MS Pipe / GI Pipe</b>	Tata / Jindal (Hissar)/ SAIL (all with ISI marked)
3	<b>CI Butterfly valve.</b>	Audco / Advance / Kirloskar / SANT./KARTAR /Zoloto
4	<b>CI Non return valve</b>	Kirloskar / Kalpna/ Indian Valve company / SANT./KARTAR/ Zoloto
5	<b>Landing valves/ Hydrant valves</b>	Newage / Minimex / Padmini / Getech/Omex.
6	<b>Gun metal branch pipe</b>	Minimax / Newage / Padmini / Getech/Omex.
7	<b>RRL Hose pipe</b>	Newage / Minimex / Padmini / CRC.
8	<b>Hose Cabinet</b>	Minimax / Newage / Padmini / CRC/Getech.
9	<b>FBC</b>	Minimax / Newage / Padmini / CRC/Getech.
10	<b>First Aid hose reel.</b>	Jyoti / CRC/ Padmini / Maruti.
11	<b>Hose reel drum</b>	Minimax / Newage / Padmini / Getech.
12	<b>Gun metal valves</b>	Sant / Leader / Kirloskar / Zoloto.
13	<b>Pressure gauge</b>	Feibig / H.Guru / indfos.
14	<b>Pressure Switch</b>	Danfoss / Ranutrol / H.Guru.
15	<b>Electrical panel</b>	Any CPRI approved manufacturer.
16	<b>MCCB/MCBs</b>	L&T/ Legrand / Siemens/ Schneider.
17	<b>Starter</b>	L&T / Siemens / ABB/ C & S.

18	<b>Digital Voltmeter / Ammeter</b>	AE/L&T.
19	<b>Selector Switch</b>	Kaycee / L&T / AE.
20	<b>Indicating lamp</b>	L&T / Siemens / BCH / Kaycee.
21	<b>CTs</b>	AE/L&T .

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.

If for any Material Makes not given. It should be got approved from the Engineer-in-charge.





## PROFORMA OF SCHEDULES (ELECTRICAL)

### **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. : **Nil**

### **SCHEDULE 'E'**

Reference to General Conditions of contract : CPWD General Conditions of Contract 2020 (Maintenance) modified and amendment up to the last date of submission of tender.

**Name of work** : **“Manning Operation & Comprehensive Maintenance of 1200 KLD Sewage Treatment Plant (STP) & 4nos. Effluent Treatment Plant (ETP) each of 100 KLD at AIIMS Hospital Campus, Raipur.”**

Estimated cost of work : **Rs. 51,26,270.00**

(i) Earnest money : **Rs. 1,02,600.00**

(ii) Performance Guarantee : 3% of tendered value.

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

### **SCHEDULE 'F'**

#### **GENERAL RULES & DIRECTIONS:**

Officer inviting tender : **Superintending Engineer, 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 Clauses 12.2 & 12.3. : See below

#### **Definitions:**

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

**2(viii) Accepting Authority** : **Superintending 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** : **As per Market Rate**

**2(xii) Department** : **Project Cell, AIIMS Raipur.**  
**9(ii) Standard CPWD contract Form** : **GCC Maintenance 2020 & CPWD Form 7/ 8 as modified & corrected up to last date of receipt of Bid/tender.**

**CLAUSE 1**

(i) Time allowed for submission of Performance Guarantee, programme chart (Time and progress) and applicable labour Licenses, registration with EPFO, ESIC and BOCW welfare board or proof of applying Thereof from the date of issue of letter of acceptance : **07 Days**

(ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period Provided in (i) above : **03 Days**

**CLAUSE 2**

Authority for fixing compensation under clause 2 : **Superintending Engineer / Director, AIIMS**

**CLAUSE 2A**

Applicable clause 2/ Clause 2A : **Clause 2 Applicable**

**CLAUSE 5**

Number of days from the date of issue of letter of acceptance for reckoning date of start Mile stone(s) as per table given below:- : **10 Days**

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

Time allowed for execution of work – **12 months.**

**Authority to decide:**

(i) Extension of time : **Superintending 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	<b>All works</b>	10 days
Part B	Portions with encumbrances	NA	NA
Part C	Portions dependent on work of other agencies	NA	NA

**Clause 5**

**Applicable clause 5/ Clause 5A**

**: Clause 5**

**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.**

**Running Account Bills to be submitted by Contractor and payment to be made after 30 days from payment of Previous RA Bills**

**CLAUSE 7 A**

Whether clause 7A shall be applicable

**: YES**

**CLAUSE 10A**

**: As required by Engineer-In-Charge**

**CLAUSE 10B (II)**

Whether Clause 10 B (ii) shall be applicable

**: Not Applicable**

**CLAUSE 10C**

Component of labour expressed as percent of value of work

**: Not Applicable**

**CLAUSE 10CC**

**: Not Applicable**

**CLAUSE 11**

Specifications to be followed for execution of work

**: CPWD Specifications Electrical Works with up to date correction slips, (up to date of receiving of tender) & OEM O&M Manual/ Specification**

**CLAUSE 12**

Authority to decide deviation upto 1.5 times of tendered amount

: **Superintending Engineer/Director,AIIMS Raipur**

**12.2&12.3**

Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work

: As per CPWD Works Manual-2019 and **Standards of Procedure to 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 and **Standards of Procedure to 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 and **Standards of Procedure to 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 (Superintending Engineer)

**CLAUSE 19 D**..... Engineer- in charge (Superintending Engineer)

**CLAUSE 19 G** ..... Engineer- in charge (Superintending Engineer)

**CLAUSE 19 K** ..... Engineer- in charge (Superintending Engineer)

**CLAUSE 19 L**.....**NOT APPLICABLE. The payment made to agency will be inclusive of all. Nothing extra/reimbursement on this behalf shall be paid.**

**CLAUSE 25**

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

**CLAUSE 32** : **Not Applicable**

**CLAUSE 38** : **Not Applicable**