



भारतीय प्रबंध संस्थान रायपुर
Indian Institute of Management Raipur

NIT No. IIMR/Tender/2025/04 Dated 11.07.2025

भारतीय प्रबंध संस्थान रायपुर में 33/11 के.वी.ट्रांसफार्मर, एचटी-एलटी, आरएमव्य एवं अन्य पैनलस, डीजी सेट सबस्टेशन, एस.टी.पी, डब्लू.टी.पी, इस्काडा, आंतरिक और बाहरी विद्युत प्रतिष्ठान के संचालन और रखरखाव के लिए ई-निविदा दस्तावेज।

Tender Document for the Operation & Maintenance of 33/11 kv Transformer; HT- LT, RMU & other Panels, DG Set Substation, STP, WTP, SCADA and Internal & External Street Lighting & Electrical Installations at Indian Institute of Management Raipur

(सी.पी.पी.पी (<https://eprocure.gov.in/cppp/>) के माध्यम से ऑनलाइन निविदा

Online tendering through CPPP (<https://eprocure.gov.in/cppp/>)

Online tendering through CPPP (<https://eprocure.gov.in/cppp/>)

भारतीय प्रबंधन संस्थान रायपुर
अटलनगर, पीओ - कुरु (अभनपुर),
रायपुर - 493661, छत्तीसगढ़
वेबसाइट: <http://www.iimraipur.ac.in/>

Indian Institute of Management Raipur
Atal Nagar, P. O. - Kurru (Abhanpur),
Raipur – 493 661, Chhattisgarh
Website: <http://www.iimraipur.ac.in/>

Section-1

निविदा आमंत्रित सूचना

NOTICE INVITING TENDER

IIM Raipur invites e-tender (online tender through CPP Portal) from reputed and experienced agencies under two bid system Technical Bid (Part-I) & Financial Bid (Part-II) for providing service for the Operation & Maintenance of 33/11 KV Transformer, Panels, DG Set Substation, STP, WTP, SCADA and Internal & External Electrical Installations at Indian Institute of Management Raipur.

The schedule and other details of Tender are as under:

Tender Name	Providing service for the Operation & Maintenance of 33/11 KV Transformer, Panels, DG Set Substation, STP, WTP, AHUs SCADA and Internal & External Street Lighting & Electrical Installations at Indian Institute of Management Raipur.
Tender No.	IIMR/Tender/2025-26/04 dated 11/07/2025
Period of Contract	The period of contract will be initially for two years, which may be extended further up-to two years (two years + one-year extension + one-year extension) on same terms & conditions. The performance of the vendor will be reviewed each year.
Bid Publishing Date	11/07/2025
Bid Submission Start Date	11/07/2025 @ 05:30 pm
Pre-bid meeting & and site visit	22/07/2025 at 03.30 A.M at Estate Department at IIM Raipur (Atal Nagar, Kurru, Raipur.493661), Contract number- 9644164555
Bid Submission End Date	01/08/2025 till 05.30 pm
Technical Bid Opening Date	04/08/2025 after 03:30 pm
Financial Bid Opening Date	Online through CPP portal for technically qualified bidder
Validity of the bid	90 days from date of financial bid
Tender Fee	Rs-1180/- (Inclusive of 18% GST) in form of DD
EMD (Earnest Money Deposit)	Rs-3,00,000/- (Rupees Three Lakhs Only)
Location of the service	IIM Raipur, Atal Nagar, P. O. – Kurru (Abhanpur), Raipur – Pin 493 661, Chhattisgarh
Delivery of service	Within 15 days from date of LOI/LOA
Contact person for technical queries related to scope of work	Shri Jagdish Rajurkar Ji, Head Campus Infrastructure (Estate & Maintenance Department) Phone 8600004305
Contact person for general tender query	Shri Ashwani Bhardwaj, Phone-0771-2474-705
Contact person for site visit	Shri. D.K.Sinha Ji (Estate & Maintenance Department) Phone-9644164555

This tender document containing eligibility criteria, scope of work, terms and conditions, evaluation process under two bid system, technical specification and other documents, can be seen/downloaded at/from the Central Public Procurement (CPP) Portal <https://eprocure.gov.in> or Indian Institute of Management Raipur website:<http://www.iimraipur.ac.in>.

This tender is required to be uploaded on the website <https://eprocure.gov.in> and nowhere else as it will be opened online at this site only.

The contract will be valid initially for two years, which may be extended subject to satisfactory performance at the sole discretion of IIMR on an annual basis for a further period of up to two years. The tenderer shall deposit Earnest Money of Rs.3,00,000.00 (Rupees three lakh only) through Demand Draft drawn in favor of **“Indian Institute of Management Raipur”** payable at Raipur through a scheduled bank only.

The tenderer shall sign and stamp each page of this tender document as taken of having read, understood and comply with tender, the terms and conditions contained herein.

Manual bid/tender will not be accepted under any circumstances. Incomplete bid/documents shall be rejected without giving any reason.

Bidders are advised to visit e-tendering (CPP Portal) portal <https://eprocure.gov.in> and Institute website <http://www.iimraipur.ac.in> regularly for updates/amendments, if any.

- (I) Bidders are advised to visit the site at IIM Raipur on or before the pre-bid meeting to assess the exact nature of the work, as well as the quantity and type of equipment installed at IIM Raipur.**
- (II) The contractor will ensure that no fee will be taken from any labor directly or indirectly in lieu of any registration fees/employee fees or similar. In case such an incident has been found, the contract will be terminated, and the contractor will be blacklisted from IIM Raipur.**

Chief Administrative Officer

SECTION-I

Eligibility Criteria

1. Bidder should have experience of having successfully completed * one similar work (Annually) for the order value of **Rs 1,00,00,000 /- (Rupees one crore)** or more in the last three years ending 31st March' 2025 or as on date.

Or

Bidder should have experience of having successfully completed * two similar works (Annually) for the order value of **Rs 60,00,000 /- (Rupees sixty lakhs)** or more in the last three years ending 31st March' 2025 or as on date.

Or

Bidder should have experience of having successfully completed * three similar works (Annually) for the order value of **Rs 40,00,000 /- (Rupees forty lakhs)** or more in the last three years ending 31st March' 2025 or as on date.

(* Similar works means : Work order which may include operation & maintenance / installation & commissioning of Transformer rating 500 KVA / 33/11 HT YARD or more, up to 1010 KVA DG set, substation, Electrical panels, SCADA, street light, VCB, LT cable laying, HT cable laying, earthing & lighting arrestor system, supply & installation of any 6 Amp, 16 Amp, 32 Amp, 63 Amp MCB Switch along with conduit wiring in offices / multi storied buildings /Malls/ reputed Government or private institution and Establishments)

(Please submit a successful work completion certificate issued by the client/competent authority with work order value (annually) and the details/description of work).

2. The agency should be registered with the appropriate registration authorities (labor commissioner etc.), goods and services tax and the agency should be registered with appropriate authorities under the Employees Provident Fund and Employees State Insurance Acts.

Sl · N o	Type of service	Valid license	license Number / Document- number	Validity up- to	Copy of registration attached (Yes/No)
	Please mention	Labour commissioner certificate/document no. etc. 2.GST Number 3.EPF & ESI Registration Number	

A copy of the registration of labor commissioner certificate/license, GST registration certificate and a copy of EPF & ESI Registration certificate must be uploaded online in technical bid part.

3. There should have been no court case pending against the proprietor /firm / partner or the company (agency) in the labour court and GST office within the last five years; also the proprietor/ firm/ partner or the company \ should not be blacklisted by any Government agency within the last 5 years.

(A certificate (As per Annexure-III) to this effect certified by 'statutory auditor / chartered accountant auditor' having UDIN number must be uploaded online in technical bid part).

4. The agency must have a minimum average annual turnover of Rs.1 Cr (Rupees one crore only) during of the last three financial years ending March'2025. **The agency must submit a duly signed certificate with membership number & UDIN number from Chartered Accountant (CA) clearly showing year-wise financial turnover.**
5. The agency must be a profit-making organization in any two years out of the last three consecutive financial years as on 31.03.2025. **Attached- CA's certificate for Profit (Profit Before Tax).**
6. The Bidder should have a valid **A-Class Electrical contractor** license affiliated with the state /central govt public work department **(Submit the copy of license online in technical bid part).**
7. The Bidder shall have a valid ISO and OSHAS certificate/ISO and Occupational Health & Safety Management System for Electrical Services HT & LT works / ISO and electrical safety related certificate **(Submit the certificate online in technical bid part).**
8. A copy of this tender document with **seal & sign** as token for acceptance of terms & conditions must be uploaded online in the technical bid part.

Note for exemption / relaxation in eligibility criteria: -

As per procurement committee meeting dated 30.01.2024 and subsequent approval received from Competent authority "No relaxation will be given for Startups and MSME in public procurement on prior experience and turn over" as IIM Raipur is being 'Institute of national importance' and the quality of product and services are our prime concern.

Note: Bidder must upload online through CPP portal the necessary supporting documents as proof in respect of the eligibility criteria mentioned above in technical bid.

The Institute reserves the right to accept or reject any or all the tenders without assigning any reason.

Chief Administrative Officer

SECTION-2

2.1 INTRODUCTION (DEFINITIONS)

- 2.1.1 “Institute or IIMR” means Indian Institute of Management Raipur, at Atal Nagar Raipur Chhattisgarh.
- 2.1.2 “Bidder” means the individual or firm or corporate body who participates in the tender and submits its bid.
- 2.1.3 “Goods/Products” means all the hardware equipment, instruments, tools, machinery etc., and/or other materials like components/parts/spares including consumables which the Contractor is required to supply to the Institute under the work order.
- 2.1.4 “Letter of Intent (LOI)” means the communication of the intention of the Institute to the Bidder to place the Institute Order for the former’s offered goods/services.
- 2.1.5 “Work Order (PO)” means the order placed by the Institute on the Contractor duly signed by the Institute’s authorized representative to purchase certain goods & services from the vendor/contractor.
- 2.1.6 “Contract Price” means considerations payable to the Contractor/contractor as stipulated in the Purchase or Work Order for performance of specified contractual obligations.

2.2 COST OF WORK ORDER OF TENDER

The Bidder shall bear all costs associated with the preparation and submission of the bid. The Institute will not be responsible or liable for these costs regardless of or the conduct of the bidding process.

2.3 BID DOCUMENTS

2.3.1 Bid Documents include: -

Section 1 Notice Inviting Tender & Eligibility Criteria

Section 2 Instructions to Bidders

Section 3 General (Commercial) Conditions of the Contract

Section 4 Special Conditions of the Contract

Section 5 Agency details (Annexure-I) and Tender Acceptance Letter (Annexure-II)

Section 6 Bill of Quantity (BOQ) and Price Bid Schedule

2.3.2 Any clarification or communications obtained from the Institute

2.4 AMENDMENT TO BID DOCUMENTS

2.4.1 At any time, prior to the date of submission of bids, the Institute may for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder modify the bid documents by amendments.

2.4.2 The amendments/Corrigendum will be notified on IIM Raipur Website and these amendments will be binding on them. Bidders are advised to visit IIM Raipur Website regularly for updates on this Tender.

2.5 EXTENSION OF TIME

In order to give prospective bidders required time in which to take the amendments into action in preparing their bid, the Institute may at its discretion extend the deadline for Submission of bid suitably.

2.6 BID PRICE

Prices should be inclusive of Stand all other transit insurance, freight and GST extra etc. The prices quoted by the bidder shall remain firm during the entire period of the contract and shall not be subject to variation on any account. The bid submitted with a variation clause (unless asked by the Institute) will be treated as non-responsive and rejected. Revision of manpower will be applicable as per Govt.of India notification.

2.7 BIDDERS ELIGIBILITY AND QUALIFICATIONS

Bidder shall furnish as a part of bid documents establishing the bidder's eligibility to Supply the material. The bidder shall also submit documentary evidence in the form of Literature, drawing, data on the goods offered.

2.8 BID SECURITY

2.8.1 The Bidder shall submit, as part of bid security as mentioned in the NIT. The bid security shall be in form of Demand Draft or Pay Order from a Scheduled Bank in favour of Indian Institute of Management Raipur.

2.8.2 The bid not secured in accordance with the above shall be rejected by the Institute as Non-responsive.

2.8.3 The bid security of the unsuccessful bidder will be discharged/ returned as promptly as possible as but not later than 45 days after expiry of the bid validity period prescribed by the Institute.

2.8.4 The successful bidder's bid security will be discharged upon the bidder's submission of the Performance Guarantee.

2.8.5 The bid security may be forfeited under the following circumstances: -

- a) If a bidder withdraws his bid during the period of bid validity specified by the bidder on the bid form.
- b) In case of a successful bidder, if he fails to submit the Performance Guarantee within the stipulated time or
- c) If he fails to supply the material and same will be executed within the terms of the contract.

2.8.6 No interest is payable on EMD/Performance guarantee /other security deposit.

2.8.7 In case of inadequacy or non-submission of prescribed EMD, the tender shall be deemed to be disqualified and shall be summarily rejected in the technical evaluation.

2.9 VALIDITY PERIOD OF BID

Bid shall remain valid for 180 days after the date of bid opening.

2.10 CLARIFICATION OF BIDS

2.10.1 To assist evaluation and comparison of the bids, the Institute may at its discretion may ask the bidder for clarification of the bid. The clarification and response from bidder shall be in writing. To assist evaluation and comparison of the bids, the Institute at its discretion may ask the bidder for clarification of the bid.

2.10.2 The Institute does not bind himself to accept the lowest or any tender and reserves to Himself the right to accept the whole or any part of the tender and altering the quantities offered and tenderer shall supply the same at the rate quoted.

2.11 EVALUATION OF TENDERS

2.11.1 The Institute shall evaluate the bids in respect to the substantive responsiveness of the bid or otherwise. The Institute shall carry out detailed evaluation of the substantially responsive bids. The Institute shall check the bid to determine whether they are complete, whether any computational errors have been made or required sureties have been furnished.

2.11.2 Arithmetical error shall be rectified on the following basis: -

a) If there is a discrepancy between the unit price and total price that is obtained multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected by the Institute.

b) In case of discrepancy between words and figures, the amount in words shall prevail.

2.11.3 A bid determined as substantially non-responsive shall be rejected by the Institute.

2.11.4 The Institute may waive any minor infirmity or non-conformity or irregularity in the bid which does not constitute a material deviation.

2.11.5 The Institute shall evaluate in detail and compare the bids which are substantially Responsive.

2.11.6 The evaluation of the ranking shall be carried out on the landed price of goods offered Inclusive of all taxes.

2.11.7 The distribution of tendered quantity amongst the technically and commercially complied bidders shall be based on merits of each case.

2.11.8 INSTITUTE shall have the sole discretion in deciding the number of parties on whom the orders shall be finally placed.

2.12 INSTITUTE'S RIGHT TO VARY QUANTITIES

2.12.1 The Institute reserves the right at the time of award of the contract to increase the quantity of the goods and services specified in the schedule of requirements without any change in unit price of the ordered quantity.

2.12.2 In case of division of order among number of parties. The distribution of quantity will be accordingly done by the Institute on an individual tender.

2.13 INSTITUTE 'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

The Institute does not bind himself to accept lowest or any other tender/bid and has the right to cancel the bidding process and reject all bids at any time prior to award of the contract without assigning any reasons whatsoever and without thereby incurring any liability to the affected bidder on the grounds for the Institute's action.

2.14 ISSUE OF LETTER OF INTENT

2.14.1 The issue of Letter of Intent shall constitute the intention of the Institute to place the letter of award with the successful bidder.

2.14.2 The bidder shall within 10 days of issue of Letter of Intent give its acceptance along with Performance Guarantee in conformity with the bid documents.

2.15 CANCELLATION OF LETTER OF INTENT

Failure of the successful bidder to comply with the requirement of submission of Performance Guarantee in time shall constitute sufficient ground for the cancellation of the acceptance of bid and forfeiture of the bid bond, in which case Institute may make the offer to any other bidder at the discretion of the Institute or call for new bids.

2.16 POST BID CLARIFICATIONS

No post bid clarification at the initiative of the bidders shall be entertained and any effort by the bidders to influence the Institute in the Institute's bid evaluation, bid comparison or award of the contract shall result in rejection of the bid.

2.17 DELIVERY

Completion of work shall be done by the Contractor in accordance with the terms specified by the Institute in the Special condition of the contract and work shall remain at the risk of the Contractor until works have been completed in full. The Schedule of quantity & time shall be the essence of the contract.

2.18 SUBMISSION OF BID

Only the following shall be accepted in physical form:

- Tender Fee in the form of Demand Draft
- EMD in the form of Demand Draft/Bank Guarantee

All other documents have to be submitted in Electronic/Soft form and shall not be accepted in physical form.

2.19 OPENING OF PRICE OFFER

Price offers of only those bidders whose Techno-Commercial offers are found to be responsive and acceptable to institute will qualify to be opened online. The qualified parties shall be notified with the date and time of the opening of the Price Offer in same day. Representative of the qualified parties may attend the Online Price Bid opening.

2.20 INSTRUCTIONS OF ONLINE BID SUBMISSION

Instructions to the Bidders to submit the bids online through the Central Public Procurement Portal for e Procurement at <http://eprocure.gov.in/eprocure/app>

1. Possession of valid Digital Signature Certificate (DSC) and enrollment/registration of the contractors/bidders on the e-Procurement/e-tender portal is a prerequisite for e-tendering.
2. Bidder should do the enrollment in the e-Procurement site using the "[OnlineBidder Enrollment](#)" option available on the home page. Portal enrollment is generally free of charge. During enrollment/registration, the bidders should provide the correct/true information including valid email id. All the correspondence shall be made directly with the contractor/bidders through email id provided.
3. Bidder need to login to the site through their user ID/ password chosen during enrollment/registration.
4. Then the Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by SIFY/TCS/n Code/e Mudra or any Certifying Authority recognized by CCA India on e Token/Smart Card, should be registered.
5. The DSC that is registered only should be used by the bidder and should ensure safety of the same.

6. Contractor/Bidder may go through the tenders published on the site and download the required tender documents/schedules for the tenders he/she is interested.
7. After downloading / getting the tender document/schedules, the Bidder should go through them carefully and then submit the documents as asked, otherwise bid will be rejected.
8. If there are any clarifications, this may be obtained online through the tender site, or through the contact details. Bidder should take into account the corrigendum published before submitting the bids online.
9. Bidder then logs in to the site through the secured log in by giving the user id/ password chosen during enrolment/registration and then by giving the password of e-Token/Smartcard to access DSC.
10. Bidder selects the tender which he/she is interested in by using the search option & then moves it to the 'my tenders' folder.
11. From my tender folder, he selects the tender to view all the details indicated.
12. It is construed that the bidder has read all the terms and conditions before submitting their offer. Bidder should go through the tender schedules carefully and upload the documents as asked; otherwise, the bid will be rejected.
13. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender documents/schedule and generally, they can be in PDF/xls/rar/jpg/dwf formats. If there is more than one document, they can be clubbed together and can be provided in the requested format. Bidders Bid documents may be scanned with 100 dpi with black and white option. It is advisable that each document to be uploaded through online for the tenders should be less than 2 MB. If any document is more than 2MB, it can be reduced through rar and the same can be uploaded, if permitted. However, if the file size is less than 1 MB the transaction uploading time will be very fast.
14. If there are any clarifications, this may be obtained through the site. Bidder should take into account the corrigendum published from time to time before submitting the online bids.
15. The Bidders can update well in advance, the documents such as certificates, annual report details etc., under My Space option and these can be selected as per tender requirements and then send along with bid documents during bid submission. This will facilitate the bid submission process faster by reducing upload time of bids.
16. Bidder should submit the Tender Fee/EMD as specified in the tender. The original should be posted/couriered/given in person to the Tender Inviting Authority, within the bid submission due date & time for the tender or as indicated in the tender. Scanned copy of the instrument should be uploaded as part of the offer
17. While submitting the bids online, the bidder reads the terms & conditions and accepts the same to proceed further to submit the bid packets.
18. The bidder has to select the payment option as offline to pay the Tender Fee/EMD applicable and enter details of the instruments.
19. 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 submitted bid will not be acceptable or liable for rejection.

20. The bidder has to digitally sign and upload the required bid documents one by one as indicated. Bidders to note that the very act of using DSC for downloading the bids and uploading their offers shall be deemed to be a confirmation that they have read all sections and pages of the bid document including General conditions of contract without any exception and have understood the entire document and are clear about the requirements of the tender requirements.
21. The bidder has to upload the relevant files required as indicated in the cover content. In case of any irrelevant files, the bid will be rejected.
22. If the price bid format is provided in a spread sheet file like BoQ_xxxx.xls, the rates offered should be entered in the allotted space only and uploaded after filling the relevant columns. The Price-bid BOQ template must not be modified/ replaced by the bidder; else the bid submitted is liable to be rejected for this tender.
23. The bidders are requested to submit the bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission end date & time (as per Server System Clock). The **TIA will** not be held responsible for any sort of delay or the difficulties faced during the submission of bid online by the bidders at the eleventh hour.
24. After the bid submission (i.e. after Clicking "Freeze Bid Submission" in the portal), the acknowledgement number, given by the system should be printed by the bidder and kept as a record of evidence for online submission of bid for the particular tender and will also act as an entry pass to participate in the bid opening date.
25. The time settings fixed in the server side & displayed at the top of the tender site, will be valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system. The bidders should follow this time during bid submission.
26. All the data being entered by the bidders would be encrypted using PK! encryption techniques to ensure the secrecy of the data. The data entered will not be viewable by unauthorized persons during bid submission & not be viewable by any one until the time of bid opening.
27. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers' public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
28. The confidentiality of the bids is maintained since the secured Socket Layer 128 bit encryption technology is used. Data storage encryption of sensitive fields is done.
29. The bidder should logout of the tendering system using the normal logout option available at the top right hand corner and not by selecting the (X) exit option in the browser.
30. For any queries regarding e-tendering process, the bidders are requested to contact as provided in the tender document. Parallely for any further queries, the bidders are asked to contact over phone: 180030702232 or send a mail over to cphp-nic@nic.in.

-END OF SECTION 2-

SECTION – 3

GENERAL (COMMERCIAL) CONDITIONS OF THE CONTRACT

3.1 PRICE APPLICABILITY

Prices in the Purchase shall remain valid for the period of delivery schedule or extended delivery schedule. In case of delayed supplies, after delivery period, the advantage of reduction of taxes/duties shall be passed onto the Institute and no benefit of increase will be permitted to the Contractor.

3.2 STANDARDS

The goods supplied under the contract shall conform to the standards mentioned in the Technical Specifications.

3.3 PATENT RIGHTS

The Contractor shall indemnify the Institute against all third-party actions/claims of infringement of patent, trademark or industrial design rights arising from the use of goods or any part thereof.

3.4 PERFORMANCE SECURITY

3.4.1 Within 10 days of the Contractor's receipt of Letter of Intent (LOI)/P.O./WO., the Contractor shall furnish a Performance Security for the amount specified in special condition of the tender in the form of a Bank Guarantee issued by a schedule Bank.

3.4.2 The proceeds of the Performance Security shall be payable to the Institute as compensation for any loss resulting from the Contractor's failure to complete its obligations under the contract.

3.4.3 The successful tenderer will have to deposit a Bank Guarantee of 10 % of the total order value in favour of "Indian Institute of Management Raipur" payable at Raipur drawn on any Nationalized Bank / Scheduled bank and valid for 60 days beyond the expiry period of contract.

3.5 INSPECTION AND TESTS

3.5.1 The Institute or its representatives or ultimate client shall have the right to inspect and test the goods for their conformity to the specifications. The Institute may also appoint an agency for this purpose. The technical specifications shall specify what inspection and tests the Institute requires and where they are to be conducted. Where the Institute decides to conduct such tests on the premises of the Contractor, all reasonable facilities and assistance like testing instruments and other test gadgets including access to the drawings and production data shall be furnished to the Inspector free of costs. In case the tested goods fail to conform to the specifications, the Inspector may reject them, and the Contractor shall either replace the rejected goods or make alteration necessary to meet the specifications requirements free of cost to the Institute.

3.5.2 Notwithstanding the pre-supply tests and inspections, the material on receipt in the Institute's premises shall also be tested and if any material or part thereof is found defective, the same shall be replaced free of cost to the Institute. If any material before it is taken over is found defective or fails to fulfil the requirements of the contract, the Inspector shall give the Contractor notice setting forth details of such defects or failures and the Contractor shall make the material good or alter the same to make it comply with the requirements of the contract and in any case within a period not exceeding 2 months of the initial report. These replacements shall be made by the Contractor, free of the all charges, at the site(s).

3.6 TRAINING (WHERE REQUIRED)

3.6.1 The successful bidder shall provide training for installation and maintenance staff of the Institute free of cost, where required.

3.6.2 The successful bidder shall provide all training materials and documents and aids.

3.6.3 Conduct of training of the Institute's personnel shall be at on-site in assembly start-up operation, maintenance and/or repair of the supplied goods.

3.7 WARRANTY

3.7.1 The Contractor shall give warranty that works to be done shall be new and free from all defects and faults in material, workmanship, and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for materials of the type ordered and shall perform in full conformity with the specifications and drawings. The Contractor shall be responsible for any defects that may develop under the conditions provided by the Contractor and under proper use, arising from faulty materials, design or workmanship such as corrosion of the equipment, inadequate contact protection, deficiencies in circuit design and or otherwise and shall remedy such defects at his own cost when called upon to do so by the Institute who shall state in writing in what respect goods are faulty. This warrantee shall survive inspection or payment for, and acceptance of goods, after the goods have been taken over.

3.7.2 If it becomes necessary for the Contractor to replace or renew any defective portion/portions of the equipment under this clause, the provisions of the clause shall apply to the portion/portions of equipment's replaced or renewed or until the end of the above mentioned period of 24 months, whichever may be later. If any defect is not remedied within a reasonable time, the Institute may proceed to get the work done at the Contractor's risk and expenses, but without prejudice to any other rights which the Institute may have against the Contractor in respect of such defects.

3.7.3 Replacement under warranty clause shall be made by the Contractor free of all charges at site including freight, insurance and other incidental charges.

3.8 CHANGE ORDERS

3.8.1 The Institute may at any time by written order given to the Contractor make changes within the general scope of the contract in any one or more of the following: -

- a) Drawings, designs or specifications where goods works to be furnished under the contract are to be specifically manufactured for the Institute. Method of transportation or packing.
- b) Place of delivery.
- c) Services work to be provided by the Contractor.

3.8.2 If any such change causes an increase or decrease in the cost or the time required for the execution of the contractor, an equitable adjustment shall be made in the contract price or delivery schedule or both and the contract shall accordingly be amended.

3.9 SUB-LETTING

The bidder cannot assign or transfer and sub-contract its interest/ obligations under the contract without prior written permission of the Institute.

3.10 LIQUIDATED DAMAGES

3.10.1 The date of the delivery of the goods/services stipulated in the acceptance of tender should be deemed to be the essence of the contract and the delivery must be completed no later than the dates specified

therein. Extension in delivery period will not be given except in exceptional circumstances. Should, however, deliveries be made after expiry of the contract delivery period and accepted by the consignee, such deliveries will not deprive the Institute of the right to recover Liquidated Damages.

3.10.2 In case the Contractor fails to supply the goods/services against the order, the same shall be procured from other Contractors at the cost and risk of the Contractor and the excess money will be recovered from any dues of the party.

3.10.3 For late deliveries, as liquidated damages, a sum equal to 2% of the price of any goods/services not delivered or total order value in case where part delivery is of no use to a Institute, for a week or part of a week subject to maximum limit of 10% of the total order will be recovered from the Contractor. The Institute also reserves the right to cancel the order in such cases and forfeit the EMD/Performance Bank Guarantee and may also debar the Contractor for future purchases.

3.10.4 LD can be recovered from any dues of the Contractor.

3.11 ARBITRATION

3.11.2 In the event of any dispute arising between Indian Institute of Management Raipur and the Contractor in any matter covered by this contract or arising directly or indirectly therefrom or connected or concerned with the said contract in any manner of the implementation of any terms and conditions of the said contract, the matter shall be referred to Director Indian Institute of Management Raipur who may himself act as sole arbitrator or may name as sole arbitrator an officer of IIM Raipur /outside IIM Raipur notwithstanding the fact that such officer has been directly or indirectly associated with this contract and the provisions of the Indian Arbitration Conciliation Act, 1996 shall apply to such arbitration. The Contractor expressly agrees that the arbitration proceedings shall be held at Raipur.

3.11.4 In case any Contractor wants to take the dispute to a court of law after arbitration award as aforesaid, it is clearly understood that only courts in C.G. shall have the Jurisdiction.

3.11.5 In case of Public Sector Undertaking/Government Departments

In the event of any dispute or difference relating to the interpretation and application of the provisions of the contracts with any Public Sector Undertaking / Government Department, such dispute or difference shall be referred by either party for Arbitration to the sole Arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under his clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. Upon such reference, the dispute shall be decided by the Law Secretary or the Special Secretary / Additional Secretary, when so authorized by the Law Secretary, whose decision shall bind the Parties finally and conclusively. The Parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator.

3.12 RISK PURCHASE

3.12.1 In the event of Contractor's failure to execute the contract to the satisfaction of the Institute, the Institute reserves the right:

- (a) to reject any part of the Contract executed and withhold payment for such portion of the Contract till such time the defects are rectified to the satisfaction of the Institute.
- (b) to terminate the Contract by giving one month notice in writing without assigning any reason and to get the Contract executed by other agency at the risk and cost of the Contractor.

3.13 GENERAL LIEN

Whenever under this contract any sum of money is recoverable from and payable by the Contractor, the Company shall be entitled to recover such sum by appropriating in part or in whole the security deposit of the Contractor, if a security is taken from the Contractor. In the event of the Security being insufficient or if no security has been taken from the Contractor, the balance or the total sum recoverable, as may be, shall be deducted from any sum due to the Contractor or which at any time thereafter may become due to the Contractor under this or any other contract with the Company. Should this sum be not sufficient to cover the full amount recoverable, the Contractor shall pay to the Company on demand the remaining balance due.

3.14 PACKING

The Contractor shall ensure that the Goods/Equipment is securely and adequately packed to ensure safe arrival at the destination fully withstanding all hazards such as rough handling etc. during transit.

3.15 REPLACEMENT OF DEFECTIVE EQUIPMENT

3.15.1 If any equipment or any part thereof, is found defective or fails to meet the requirements of the contract before it is accepted Institute shall give the Contractor a notice setting forth details of such defects or failures and the Contractor shall forthwith arrange to set right the defective equipment or replace the same by the good one to make it comply with the requirements of the contract. This in any case shall be completed within a period not exceeding one month from the date of the initial report pointing out the defects. The replacement or rectification shall be made at site by the Contractor free of cost. Should the Contractor fail to do the needful within this stipulated time frame, the Institute reserves the right to reject the equipment in full or in part and get it replaced at the cost of the Contractor. The cost of any such replacement made by the Institute shall be deducted from the amount payable to the Contractor against this purchase order.

3.15.2 If any equipment or part thereof is lost or rendered defective during transit, pending settlement of the insurance claim, fresh order shall be placed on the Contractor for such loss or defective equipment and the Contractor shall arrange to supply the same within three months of such order at the same prices and on the same general terms and conditions as mentioned in this purchase order.

3.16 FORCE MAJEURE

If any time, during the continuance of this contract, the performance in whole or in part either party under obligation as per this contract is prevented or delayed by reasons of any war or hostility, act of the public enemy, civil commotion, sabotage, fire, flood, explosion, epidemic, quarantine restrictions, strike, lockout or acts of God (hereinafter referred to “eventuality”), provided notice of happening of any such eventuality is given by either party to the other within 21 days of the date of occurrence thereof, neither party shall be reason of such an “eventuality” be entitled to terminate this contract nor shall either party have any claim or damages against the other in respect of such nonperformance or delay in performance and deliveries under the contract. The contract shall be resumed as soon as practicable after such “eventuality” has come to an end or ceased to exist. In case of any dispute, the decision of Director, IIM Raipur shall be final and conclusive, provided further that if the performance in whole or part of any obligation under this contract is prevented or delayed by reason of any such eventuality for a period exceeding 60 days, either party may at its option, terminate the contract. Provided also that if the contract is terminated under this clause the Institute shall be at liberty to take over from the Contractor at a price to be fixed by the Institute, which shall be final, all unused, undamaged and acceptable materials, bought out components and other stores in the course of manufacture which may be in the possession of the Contractor at the time of such termination, or such portion thereof as the Institute may deem fit except such material, as the Contractor may, with the concurrence of the Institute, elect to retain.

3.17 TERMINATION FOR DEFAULT

3.17.1 The Institute, may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the Contractor, terminate this contract in whole or in part.

- a) If the Contractor fails to deliver any or all the goods within the time period (s) specified in the contract, or any extension thereof granted by the Institute.
- b) if the Contractor fails to perform any other obligation(s) under the contract; and
- c) if the Contractor, in either of the above circumstances, does not remedy his failure within a period of 15 days (or such longer period as the Institute may authorize in writing) after receipt of the default notice from the Institute.
- d) On a notice period of 30 days.

3.17.2 In the event the Institute terminates the contract in whole or in part pursuant to above para the Institute may procure, upon such terms and in such manner as it deems appropriate, goods similar to those undelivered and the Contractor shall be liable to the Institute for any excess cost for such similar goods. However, the Contractor shall continue the performance of the contract to the extent not terminated.

3.18 TERMINATION FOR INSOLVENCY

The Institute may at any time terminate the Contract by giving written notice to the Contractor, without compensation to the Contractor if the Contractor becomes bankrupt or otherwise insolvent as declared by the competent court provided that such termination will not prejudice or effect any right of action or remedy which has accrued or will accrue thereafter to the Institute.

END OF SECTION-3

SECTION– 4

SPECIAL CONDITIONS OF CONTRACT

4.1 PLACE OF INSTALLED EQUIPMENTS UNDER OPERATION & MAINTENANCE CONTRACT

Indian Institute of Management Raipur

4.2 PAYMENT TERMS

Payment will be made on a monthly basis upon submission of the following documents, duly verified by the Engineer In-charge / CAO:

- 1. Monthly bill for the services rendered in the preceding month.**
- 2. Available Consumable item sheet**
- 3. Tools & Plants sheet.**
- 4. Engaged manpower details as per the tender.**
- 5. MEP complaint register/sheet.**
- 6. Verified list of actual consumables used, along with their respective locations.**

4.3 PAYING AUTHORITY

Indian Institute of Management Raipur

4.4 INSPECTION AUTHORITY

Indian Institute of Management Raipur

4.5 VALIDITY OF PERFORMANCE SECURITY

Successful bidder is required to submit Performance Bank Guarantee for a value of 10 % of value of WO with validity up to contract period plus 3months for final handing over of AMC covered equipment's, within 10 days from date of issue of WO.

4.7 PRE-BIDINSPECTION/SURVEY

- 4.7.1** The bidder may inspect the conditions & performance of the Sub-station equipment's, internal & external electrical equipment's & installations, SCADA, STP Plant, WTP Plant, Fire Hydrant System, before submission of their bid.
- 4.7.2** The complete Sub-station & other electrical installations as per the electrical installation and scope of work shall be taken over by the agency for operation & maintenance in the existing conditions and if any initial repairs or replacement of any part or modification of any nature is required in the existing system/equipment, the same shall be carried out by the agency within the quoted rates.

4.8 SCOPE OF WORK:

- 4.8.1 The scope of work shall include the operation, as well as all routine, preventive, and major or special maintenance activities required from time to time for the entire substation infrastructure. This encompasses HT panels, LT panels, other electrical panels, indoor and outdoor transformers, bus ducts, rising mains, and power cables. The contractor shall also be responsible for the maintenance and operation of the STP (Sewage Treatment Plant), WTP (Water Treatment Plant), SCADA system, internal and external electrical wiring and installations, street lighting, area lighting, bollard lighting, fire hydrant systems, and plumbing infrastructure. Additionally, the work includes preventive cleaning of plumbing and electrical chambers, maintenance of drainage pipelines, and clearing of any blockages in chambers and pipelines. All tasks are to be carried out in accordance with the specifications, installation details, and general scope of work described herein.
- 4.8.2 The scope shall also include attending to all day-to-day MEP (Mechanical, Electrical, and Plumbing) maintenance complaints and maintaining proper records of the same. The contractor shall ensure prompt resolution of complaints and maintain a detailed log/register of all issues reported, actions taken, and the resolution status, duly verified by the Engineer In-charge / CAO on a regular basis.
- 4.8.3 The scope of work also includes coordination and liaison with CSPDCL (Chhattisgarh State Power Distribution Company Limited) concerning the 33 kV feeder power connection to the Institute, in order to ensure uninterrupted and uniform power supply at all times.
- 4.8.4 The work shall generally be executed in accordance with CPWD guidelines and standard operating procedures (SOPs) for electrical works, as well as the norms prescribed by the respective equipment manufacturers. All activities shall also comply with the specifications and any specific instructions issued by the CAO or the Institute Engineer In-charge from time to time. A brief description of the maintenance activities typically undertaken is provided in the subsequent section under the general scope of work.
- 4.8.5 All electrical equipment and installations shall be maintained in good working and healthy condition at all times. The contractor shall ensure regular inspection, servicing, and prompt rectification of faults to prevent any disruption in operations and to uphold safety and performance standards.

4.8.6 Availability of Services and 24x7 Helpline Support

The contractor shall provide uninterrupted services on a 24x7 basis, 365 days a year, within the IIM Raipur campus. A dedicated helpline number must remain operational at all times. IIM Raipur will provide the provision for an intercom or landline connection at a designated location on site. The helpline calls must be attended by the site operator, supervisor, or engineer at all times. The helpline may also be set to an auto-recording mode or redirected to a pre-defined mobile or landline number to ensure no call goes unattended, ensuring round-the-clock responsiveness to maintenance-related issues.

4.8.7 Electrical installations and general scope of work

The following scope of work is only indicative, and the contractor is advised to use his own judgment in evaluating the quantum of work involved in round the clock operation and maintenance of the systems.

A. Operation and Maintenance of external electrical works at IIM Campus			
S. N.	Description of works	Unit	Qty
1	Operation and Maintenance of 33 KV Switch yards	Job	1
2	Operation and Maintenance of 33/11 KV Power Transformer	Nos	2
3	Operation and Maintenance of 33 KV HT Panels	Nos	3
4	Operation and Maintenance of 11 KV HT Panels (11 Cubical)	Set	1
5	Operation and Maintenance of 11 KV DG Set	Nos	1
6	Operation and Maintenance of DG main 11 KV HT Panels (06 Cubical)	Set	1
7	Operation and Maintenance of NGR Panels	Set	1
8	Operation and Maintenance of DG Synchronizing Panel	Nos	1
9	Operation and Maintenance of CSS	Nos	1
10	Operation and Maintenance of 33 KV HT Cable (3 core x 300 Sq.mtr)	Job	1
11	Operation and Maintenance of 11 KV HT Cable (3 core x 400 sq.mtr)	Job	1
12	Operation and Maintenance of RMU Panels at ESS-2,3,4	Nos	3
13	Operation and Maintenance of Dry Type Transformer at ESS-2,3,4	Nos	4
14	Operation and Maintenance of LT Panels at ESS-2,3,4,1	Job	1
15	Operation and Maintenance of MCC & PCC of Chiller unit panels at ESS-2	Nos	2
16	Operation and Maintenance of LT Cables at ESS-2,3,4,1 & Building	Job	1
17	Operation and Maintenance of Feeder pillars at IIM Campus	Job	1
18	Operation and Maintenance of Floor Panels at all building of IIM Campus & ESS	Job	1

B. Operation and Maintenance of STP WTP & AHU unit at IIM Campus			
S. N.	Description of works	Unit	Qty
1	Operation and Maintenance of AHU control panels	Job	1
2	Operation and Maintenance of AHU motores	Job	1
3	Operation and Maintenance of VFD panels at STP	Job	1
4	Operation and Maintenance of control panels at STP	Job	1
5	Operation and Maintenance of all pumps and motors at STP	Job	1
6	Operation and Maintenance of VFD panels at WTP	Job	1
7	Operation and Maintenance control panels at WTP	Job	1
8	Operation and Maintenance of LT panels at STP & WTP	Job	1
9	Operation and Maintenance of all pumps and motors at WTP	Job	1

C. Operation and Maintenance of Sensitive Motor Pumps of the WTP & STP at IIM Campus (
S. N	Description of Equipment	Wattage	Unit	Qty
STP Pumps for Maintenance				
1	Filter Feed Pump (1 W + 1 S)	4 KW	Nos	1
2	Hydro Pneumatic Pump for drip irrigation (2 W + 1S) + Pressure Tank (02 Unit)	2 KW	Nos	1
3	Hydro Pneumatic Pump for drip irrigation (2 W + 1S)	7.5 KW	Nos	1
4	Sewage Transfer Pump (1 W + 1 S)	2.2 KW	Nos	1
5	Sewage Re-Circulation Pump (1 W + 1 S)	3 HP	Nos	1
6	Soft Water Transfer Pump (1 W + 1 S)	3 H KW	Nos	1
7	Softener Feed Pump (1 W + 1 S)	2.2 KW	Nos	1
8	Back Wash Pump (1 W + 1 S)	1.5 KW	Nos	1
9	Air Blower (2 W + 1 S)	12.5 HP	Nos	1
10	Screw Slurry Pump, 1.1 KW	1.1 KW	Nos	1
11	UV System (Irrigation Pump)	730 W	Nos	1
12	UV System (Flushing Pump)	730 W	Nos	1
13	UV System (Softener Transfer Pump)	730 W	Nos	1
WTP Pumps for Maintenance				
1	Filter Feed Pump (2 W + 1 S)	5.5 KW	Nos	1
2	Irrigation Pump (1 W + 1 S)	2.2 KW	Nos	1
3	Hydro Pneumatic Pump (2 W + 1 S) with VFD	5.5 KW	Nos	1
4	Submersible Pump (1 W + 1 S)	1.5 KW	Nos	1
5	Air Blower Pump	1.1 KW	Nos	1
6	Back Wash Pump	1.5 KW	Nos	1

D. Operation and Maintenance of Critical Components of the WTP & STP at IIM Campus			
Sr. No	Description of Equipment	Unit	Qty
Filter (STP)		Nos	1
1	Multi-grade Sand Filter	Nos	1
2	Active Carbon Filter	Nos	1
3	Softener with Brine Tank	Nos	1
4	Air Vent for MBBR1 / MBBR 2	Nos	1
5	Filter Press	Nos	1
6	Bar Screen	Nos	1
7	Chlorine Dosing System for Softener	Nos	1
8	Chlorine Dosing System for Filter Feed Tank	Nos	1
9	Flow Meter (Equi-1)	Nos	1
10	Flow Meter (Carbon Filter Out-1)	Nos	1
11	Flow Meter (MBS)	Nos	1
12	PH Meter	Nos	1

WTP Elements for Maintenance			
1	Multi-grade Sand Filter		1
2	Active Carbon Filter	Nos	1
3	Softener Tank	Nos	1
4	Chlorine Dosing System for Raw Water	Nos	
5	Chlorine Dosing System for Filter Water	Nos	1
6	Flow Meter (BMS)	Nos	1
7	Flow Meter (TDS)	Nos	1
8	25 MM Dia Sight Tube with Isolation Valve	Nos	1
9	1300 CFM Vane Axial fan with Starter Panel	Nos	1

E Maintenance of Fire Hydrant and Sprinkler system			
Sr. No	Description of Equipment	Unit	Qty
1	Jockey Pump	No	2
2	Main hydrant pump	No	2
3	Diesel pump	No	1
4	Booster pump with starter panel	No	18
5	Fire shaft	No	130
6	External fire hydrant	No	34

F. Operation and Maintenance of internal /external street lighting etc at IIM Campus			
Sr. No	Description of works	Unit	Qty
1	Operation and Maintenance of all street lights (external & internal lighting) at IIM Campus	Complete-Job	
2	Repairing and replacement of street light at IIM Campus		
3	Operation and Maintenance of solar light at IIM Campus		
4	Repairing and replacement of solar light at IIM Campus		
5	Operation and Maintenance of all electrical internal & external works of all infrastructure at IIM Campus		
6	Repairing and replacement of all internal and external works of all infrastructure at IIM Campus		

G. Operation and Maintenance of SCADA System at IIM Campus			
Sr. No	Description of Equipment	Unit	Qty
1	RTU Panel	Nos	4
2	Workstation PC	Nos	3
3	SCADA Software (01 Server & 02 Client)	Nos	3
4	Network Printer	Nos	1
5	UPS 3KVA	Nos	1
6	Battery rack with battery	Set	1
8	Ethernet Cable	Mtr	305
9	GPS Tie Synchronizing unit with antenna	Nos	1
10	Laptop	Nos	1
11	OFC Ring etc.	Set	1
12	HMI	Nos	4

Note:

1. Bidders are advised to visit the IIM Raipur campus to assess the exact nature, scope, and quantity of the equipment installed, in order to gain a clear understanding of the site conditions and requirements before submitting their bids..
2. The quoted price shall include the cost of one year of operation and maintenance, including the cost of manpower to be deployed. However, consumables (except those mentioned in clause 4.16.1) and spare parts are excluded from the scope of work. The supply of these consumables and spare parts shall be under the contractor's scope, and payment for the same will be made by the Institute to the contractor on a reimbursement basis, based on actual cost. The cost shall be supported with rate analysis as per CPWD norms and duly verified by the Engineer-in-Charge.
3. Please note that for all regular and routine consumables/non-consumable items, the contractor must always maintain adequate stock at their local store to ensure the smooth functioning and uninterrupted operation of the equipment. The contractor shall provide a list of such items (excluding those listed under clause 4.16.1) to the Institute prior to the commencement of the AMC contract. A register for the consumption of such items shall be maintained by the Engineer-in-Charge (IIM Raipur).

4.8.7 OPERATIONAL SCOPE OF WORK

- 1) To operate and maintain the DG sets with a rating of 1010 KVA, 125KVA and Diesel Pumps, including all HT and LT power equipment starting from the outgoing point of the metering equipment. This includes 11 kV oil-immersed circuit breakers, HT cables, HT panels, transformers, incoming and outgoing LT panels, switchgear, feeder panels, feeder switchboards, and all associated protection equipment. The scope also covers control cables, LT bus ducts, battery chargers, capacitor panels/power factor correction systems, pump panels, mechanical ventilation and pressurizing systems, and all related switchgear. These systems should be operated and maintained round the clock throughout the year to ensure uninterrupted power supply and efficient functioning.
- 2) **Monitoring and Regulation of Incoming Power Supply**
To continuously monitor and record the parameters of the incoming power supply. Perform necessary tap changes to maintain the voltage within prescribed limits. Maintain the power factor at not less than 0.9 lagging by switching capacitor banks as required. Ensure that the maximum demand remains within the prescribed limits through effective management and control measures.
- 3) **Maintenance of Electrical Installations**
To maintain all internal and external electrical installations, including lights, fittings, power outlets, switchboards, distribution boards, and associated cables and wiring, ensuring they remain in good working condition. Attend to complaints and faults promptly and carry out preventive maintenance to avoid breakdowns. These services shall be provided round the clock throughout the year to ensure uninterrupted electrical functioning.
- 4) **Maintenance and Testing of Earth Pits**
To inspect earth pits associated with all equipment, systems, and buildings. Carry out watering of earth pits as required and perform regular testing of earth resistance. Submit a detailed earth test report for all earth pits every month to ensure safety and compliance with standards.

- 5) To check the transformers parameters and cooling systems for leakage of transformer oil and topping up of the same as and when required.
- 6) To check/clean with CTC/ tighten all electrical contacts monthly. The heated terminals if required to be made in proper condition by using appropriate size crimping tool and lugs.
- 7) To check and replace, if necessary, the performance of all operational safeties. This activity has to be done at least once in three months and if required earlier too.
- 8) To check and clean all electrical fittings including fans on monthly basis and as per requirement.
- 9) To lubricate motor/pumps bearings periodically and replace the bearings when necessary and submission of report on monthly basis.
- 10) To check electrical circuits and rectify faults as and when necessary.
- 11) To clean, tighten electrical contact points once a month.
- 12) To replace electrical contacts and other items as and when required.
- 13) To tighten all the fasteners of the bus ducts, bus bars and cables as and when necessary and at least once in three months. Also to re-terminate the heated up contacts and replace cabling/wiring as and when necessary.
- 14) To ensure that the control circuitry of all systems are perfectly working.
- 15) To check the silica gel of the transformers and to dry them as and when required.
- 16) To test the oil samples of transformers and to give suggestions for dehydration of oil if required.
- 17) To arrange for a well-equipped first-aid box and maintain it in a healthy condition to take care of first aid for any eventualities of their workman at site.
- 18) Arrange all type of repairs, spares & consumables required for proper working of electrical installations.
- 19) Any other electrical works as assigned by the engineer in charge essentially required for keeping the equipment's in good healthy working conditions though not indicated above.
- 20) Operation of DG sets during office working hour and holidays whenever required.

4.8.8 MAINTENANCE SCHEDULE OF 6.3 MVA POWER TRANSFORMER # 01 & 02

SR. NO.	INSPECTION FREQUENCY	ITEM TO BE INSPECTED	INSPECTION NOTE	ACTION REQUIRED IF INSPECTION SHOWS UNSATISFACTORY CONDITION
1	Hourly	Ambient Temp.	Check that temp. rise is reasonable.	Shut down the Transformer & investigate if either is persistently higher than normal.
2		Winding Temp.		
3		Oil Temp.		
4		Load (Amp.)	Check against rated figure.	Note- An improper tap position can cause excessive core loss
5		Voltage		
6	Daily	Oil Level in Transformer	Check against Oil gauge	If low, examine the Transformer for leaks.
7		Relief vent diaphragm		Replace if cracked or broken.
8		De-hydrating Breather	Check colour of the active agent	If Silica jel is pink change by spare charge. The old charge may be reactivated for further use.
9	Quarterly	Bushings	Examine for cracks & dirt deposits.	Clean or replace.
10		Oil in Transformer	Check the Electric strength & water content.	Take suitable action to restore quality of oil.
11		De-hydrating Breather	Check oil level in oil cup and that air passages are free.	Make up oil if required.
12	Half Yearly	External switch drive for off circuit switches.	Operate 02 or 03 runs through complete range.	Take suitable action.
13	Yearly or earlier if Transformer can conveniently be taken out of checking.	Oil in Transformer	Check for acidity and sludge.	Filter or replace.
14		Insulation Resistance	Compare with value at time of commissioning.	Process if required.
15		(1)Oil filled Bushings.	Test Oil.	Filter or replace.
		(2)Oil flooded Bushings.	Check air releasing arrangement and oil leak.	Clean holes in stem.Replace gaskets.
		(3)Cableboxex	Check sealing arrangement for filling hole,Examine compound for cracke	Replace gasket if leaking.
		(4)Arcing horns	Examine for dirt deposits.	Clean.
16		Gasket joint		Tighten the bolts evenly to avoid uneven pressure.
17		Relays,alarms,their circuits etc.	Examine relay & alarm contacts and their operation, fuses etc.	Clean the components or replace contacts and fuses if necessary.
			Check relay accuracy etc.	Change the setting if necessary.
18		Temperature indicator	Pocket holding Thermometers should be checked.	Oil to be replanished if required.
19		Dial type oil guage	Check pointer for freedom.	Adjust if required.
20		Earth resistance		Take suitable action if resistance high.
21		Paint work	Should be inspected.	Any painting or retouching should be done, if necessary.
22	Two Yearly	Oil conservator	Internal inspection.	Should be thoroughly cleaned.
23		Buchholz Relay	Mechanical inspection.	Adjust Floats,switches, etc. as required.
24	03 to 05 Yearly	Complete Transformer	Overall inspection including lifting of core and coils.	Wash by hosing down with clean dry oil.Tighten where necessary.

4.8.91010 KVA, 11KV Diesel Generator Maintenance Schedule

Item	Control of inspection place of Inspection	Daily inspection (during Running)	Monthly inspection (During stop)	Annual inspection
1	Static Part	1. Noise	1. Insulation Resistance	1. Maintenance of Winding
		2. Temprature	2. Air Gap	2. Maintenance of Core Parts.
		3. Vibration	3. Cleaning	3. Inspection of Lead Wires.
				4. Inspection of Bolt & Nuts.
2	Rotating Part	1. Noise	1. Inspection Resistance	1. Loosening of spigot fitting part and balance weight.
				2. Contact with static part.
				3. Inspection of Lead Wires.
				4. Retightining of bolts and nuts
3	Bearing Part	1. Noise	1. Cleaning	1. Examine of rolling elements
		2. Temprature		2. Pitting marks to be checked.
		3. Vibration		
4	Others	1. Odour.		
		2. Abnormal Noise.		

4.8.10 DRY TYPE 11KV/ 440 V TRANSFORMER # 01, 02,03 ,04 & 05 MAINTENANCE SCHEDULE

DRY TYPE 11KV/ 440 V TRANSFORMER # 01, 02,03 ,04 & 05 MAINTENANCE SCHEDULE	
Maximize your transformer's life-expectancy	
CAUTION: Always de-energize a transformer and ground its case before entering or working on the transformer.	
Connect the ground to all transformer terminals. Remove these connections before re-energizing the transformer.	
1. The life of your dry type transformers can be improved with proper maintenance. An inspection and maintenance schedule should be established to maximize the life of this equipment.	
2. Evidence of rusting, corrosion, and deterioration of the insulation, varnish or paint should be checked, and corrective measures taken. Auxiliary devices should be inspected and serviced during these inspections.	
3. Windings should be inspected for contaminants, especially on insulating surfaces or where they could restrict air flow.	
4. Check for loose connections, condition of tap changers, terminal boards and for the general condition of the transformer.	
5. Check for signs of overheating and tracking or carbonization marks.	
6. The intervals at which ventilated dry type transformers should be inspected depends on operating conditions	
7. For clean, dry locations, an annual inspection may be sufficient. For harsher environments where there is dust, metallic particles or chemical fumes, a more frequent inspection may be required. Usually after a few inspections, a inspection may schedule can be established based on the existing conditions.	
8. Dust, dirt or residues on windings or insulators should be removed to permit free circulation of air and to reduce the possibility of insulation breakdowns. Particular attention should be given to cleaning windings and vents.	
9. The windings may be cleaned with a vacuum cleaner, a blower, or with compressed air. The use of a vacuum cleaner is preferred, followed by compressed air or nitrogen. Maintain adequate ventilation during cleaning.	
10. The compressed air or nitrogen should be clean and dry and should be applied at a relatively low pressure (not over 25 lbs/in2)	
11. Lead supports, tap changers and terminal boards, bushings, and other major insulating surfaces should be brushed or wiped with a dry lint-free cloth. The use of liquid cleaners is undesirable because some have a deteriorating effect on insulating materials.	
12. The insulation resistance test is used to determine the moisture content of a transformer's insulation material. The insulation resistance test should be made before conducting an applied voltage test. The test data should be recorded with the ambient temperature and humidity at the time of measurement.	
13. If a dry type transformer's insulation resistance readings do not meet the minimum values in Table 1 below, it should be dried before the applied voltage test is performed or before the transformer is placed in service. Contact Alfa for more information.	
MINIMUM INSULATION RESISTANCE TABLE	
WINDING CLASS (KV)	INSULATION RESISTANCE (MΩ)
1.2	600
2.5	1000
5	1500
8.7	2000
15	3000

4.8.11 CHECK LIST OF ALL HT BREAKER

EQUIPMENT-ALL HT BREAKER	
S.NO.	CHECK POINTS
1	CLEAN ALL THE BREAKER CUBICAL & RELAY MOUNTING BOX BY BLOWER.
2	CHECK THE TIGHTNESS OF LUGS & BOTH CONTROL & POWER CABLE
3	CLEANING THE TRACK OF BREAKER FOR ITS RACK IN & RACK OUT POSITION.
4	CHECK THE GLANDING OF HOLES & SEALED IF ANY.
5	CHECK & ENSURE PROPER DRESSING OF CABLE.
6	CHECK ANY BURNING OF CONNECTION.
7	CHECK PHYSICAL CONDITION OF CT.(NO ANY HOT SPOT OR CRACK.)
8	CHECK PHYSICAL CONDITION OF PT.(NO ANY HOT SPOT OR CRACK.)
9	OPEN POWER CONTACTOR & CLAEEN ITS POINT BY CTC IF REQUIRED.
10	CHECK THE HEALTHINESS OF INDICATION & LOCAL REMOTE SELECTOR SWITCHES.
11	CHECK THE HEALTHINESS OF METER MOUNTED ON FEEDER.
12	CHECK THE RUBBER LINING OF DOOR FOR DUST SEALING.
13	TAKE TRIAL OF THE BREAKER RACK IN & RACK OUT POSITION.

4.8.12 CHECK LIST OF ALL LT PANEL EQUIPMENT

EQUIPMENT-ALL LT PANEL	
S.NO.	CHECK POINTS
1	CLEAN THE FEEDER BY BLOWER.
2	CHECK THE TIGHTNESS OF LUGS & BOTH CONTROL & POWER CABLE
3	CHECK THE GLANDING OF HOLES & SEALED IF ANY
4	CHECK & ENSURE PROPER DRESSING OF CABLE
5	CHECK ANY BURNING OF CONNECTION
6	OPEN POWER CONTACTOR & CLAEEN ITS POINT BY CTC IF REQUIRED.
7	CHECK THE OVERLOAD SETTING OF RELAY
8	CHECK THE CORRECT RATING OF FUSES & MCB'S.
9	CHECH THE HEALTHINESS OF INDICATION & LOCAL REMOTE SELECTOR SWITCHES.
10	CHECH THE HEALTHINESS OF METER MOUNTED ON FEEDER.
11	CHECK THE RUBBER LINING OF DOOR FOR DUST SEALING.
12	TAKE TRIAL OF THE DRIVE BOTH LOCAL & REMOTE.

4.8.13 CHECK LIST OF ALL MOTOR & DRIVES

EQUIPMENT-ALL MOTOR & DRIVES	
S.NO.	CHECK POINTS
1	CLEAN THE MOTOR & ITS FEEDER BY BLOWER.
2	CHECK THE TIGHTNESS OF LUGS BOTH MOTOR & FEEDER END.
3	CHECK THE GLANDING OF HOLES & SEALED IF ANY
4	CHECK & ENSURE PROPER DRESSING OF CABLE
5	CHECK ANY BURNING OF CONNECTION OR TERMINALS.
6	CHECK ITS EARTHING POINT PROPERLY CONNECTED.
7	CHECKING ABNORMAL SOUND OF THE BEARING/FAN SIDE BEFORE TAKING SHUT-DOWN.
8	CHECK THE VIBRATION & TIGHTNESSOF FOUNDATION BOLT.
9	CLEAN THE AIR VENT HOLES OF MOTER.
10	GREASING BOTH DE& NDE SIDE OF MOTOR IF REQUIRED.
11	CHECK THE IR VALUE OF MOTOR.
12	CHECK THE INTERNAL LEAD OF THE MOTER & TIGHTNESS.
13	TAKE TRIAL OF THE DRIVE BOTH LOCAL & REMOTE.

4.18.14 CHECK LIST OF ALL BATTERY CHARGER & BATTERY BANK

EQUIPMENT- ALL BATTERY CHARGER & BATTERY BANK.	
S.NO.	CHECK POINTS
	DAILY
1	Check the output voltage and current of the complete bank.
2	Check the charging voltage and current of complete bank.
	MONTHLY
1	Check the electrolyte level of the battery. min/ max. level (IF LIQUID BATTERY USED)
3	Check the specific gravity of electrolyte of each cell.if applicable. specified gravity 1250.
4	Clean the panel by air blower.
5	Check the output voltage.
2	Check the individual battery cell voltage if it is less recharges the bank with charger.
6	Check the healthiness' of rectifier circuit.
7	Check the healthiness' of different cards & annunciator ckt. & windows for its operation.
8	Study the discharge rate of battery if possible.
9	Clean the battery by cotton cloth.
10	Clean all the terminals of the battery.
11	Check the terminal tightens of each battery.
12	Check the terminal sulphuration, if available clean it.
13	Put some petroleum jelly at the terminals.

4.18.15 CHECK LIST ALL EARTH PIT

EQUIPMENT- ALL EARTH-PIT.	
S.NO.	CHECK POINTS
1	Clean the earth pit properly.
2	Clean the contact surface and nut bolts, if required replace the nut/bolts with new one.
3	Check the continuity of the earthing strip from earth pit to equipment which is earthed through respective pit.
4	Check the nomenclature board availability containing of resistance and identification details.
5	Check the physical condition of Earthing strip and replace if necessary.
6	Pour the water if necessary to improve the required earth resistance values
7	As per IE 1956 value 132kv & 220kv substation equal to or below 1.0 ohm & for 33 kv or below will be 2.0 ohms. If value comes above this value then pour the water to improve the required earth resistance (once in year).

4.18.16 SHUT DOWN FORM FOR ELECTRICAL STAFF

IIM NAYA RAIPUR	QUALITY MANAGEMENT SYSTEM	FORMAT NO. : MNT (E)/ F 12																																				
	SHUT DOWN FORM FOR ELECTRICAL STAFF	REV. NO :																																				
	FORM NO : HT-LT	REV. DATE :																																				
		PAGE NO. :																																				
NO BACKFEED PERMIT ON SUB-STATION/PCC/MCC																																						
SHOP/DEPT. : SECTION :																																						
A. REQUISITION PERMIT TO WORK & CERTIFICATE OF ABSENCE OF BACKFEED MAY PLEASE BE GIVEN ON THE FOLLOWING SECTION FOR CARRING OUT MAINTENANCE/REPAIR WORK.																																						
DATE :																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="text-align: left;">JOB DISCRPTION :</th> </tr> <tr> <th style="width: 10%;">S.NO.</th> <th style="width: 50%;">CHECK POINTS</th> <th style="width: 40%;">COMPLIANCE STATUS AFTER COMPLETION OF JOB</th> </tr> <tr><td style="text-align: center;">1</td><td></td><td></td></tr> <tr><td style="text-align: center;">2</td><td></td><td></td></tr> <tr><td style="text-align: center;">3</td><td></td><td></td></tr> <tr><td style="text-align: center;">4</td><td></td><td></td></tr> <tr><td style="text-align: center;">5</td><td></td><td></td></tr> <tr><td style="text-align: center;">6</td><td></td><td></td></tr> <tr><td style="text-align: center;">7</td><td></td><td></td></tr> <tr><td style="text-align: center;">8</td><td></td><td></td></tr> <tr><td style="text-align: center;">9</td><td></td><td></td></tr> <tr><td style="text-align: center;">10</td><td></td><td></td></tr> </table>			JOB DISCRPTION :			S.NO.	CHECK POINTS	COMPLIANCE STATUS AFTER COMPLETION OF JOB	1			2			3			4			5			6			7			8			9			10		
JOB DISCRPTION :																																						
S.NO.	CHECK POINTS	COMPLIANCE STATUS AFTER COMPLETION OF JOB																																				
1																																						
2																																						
3																																						
4																																						
5																																						
6																																						
7																																						
8																																						
9																																						
10																																						
MAZOR SPARES : 1. _____ 2. _____ 3. _____ _____ 4. _____ 5. _____ 6. _____ _____																																						
ADVANCE PREPARATION/ TOOLS & TACKLES/ SAFETY ADVICE :																																						
SPECIFIC INSTRUCTION :																																						
PLEASE RETURN THE JOB CARD TO THE OFFICE OF HOD AFTER COMPLETION OF JOB & DULY RECORD THE COMPLIANCE ON OVERLEAF/ ATTACHED PAPER.																																						
JOB INCHARGE : HOD :		SECTION I/C :																																				

4.18.17 LOG BOOK /DAILY PROCESS REPORT OF STP PLANT

DAILY PROCESS REPORT OF STP PLANT																				Date:	
S. No.	Raw Sewage Pump ON/OFF		Filter Feed Pump ON/OFF		Air Blowers ON/ OFF			Sludge Re-Circulation Pump ON/OFF		Screw Slurry Pump ON/OFF		Treated Water Transfer Pump ON/OFF		Flushing Water ON/OFF		Softener Feed Pumps ON/OFF		Chlorine Dosing ON/OFF		Soft Water Transfer ON/OFF (Cooling Tower)	
	I	II	I	II	I	II	III	I	II	I	II	I	II	I	II	I	II	MGF	SF	I	II
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
Consumables		Water Flow Reading				Water Tank Reading		Backwash		Pressure KG/cm2		SV-30 Test		PH	Hardness PPM						
Cl2		Time	9.00 AM	9.00 AM	KL	9.00 AM		Item	Time	Inlet	Outlet	Time	MLS								
Salt		Row Water				Treated Water		MGF					9:00 AM								
		Treated Water				Filter Feed		ACF					3:00 PM								
DAP/Urea		Garden Water				Soft Water		SF					9:00 PM								
		Flushing Water				Holding Tank		Maintenance Work :-													
Bioculture		Flushing Water				Softener Resin Charge															
		Garden Water																			
Remark :-						Operator Sign	A	B	C	Site Engineer Sign											

4.18.18 LOG BOOK /DAILY PROCESS REPORT OF WTP PLANT

DAILY PROCESS REPORT OF WTP PLANT													
Date	Time	PH	Raw Water Hardness PPM	Soft Water Hardness PPM	Backwash				Softener Resin Charge	Raw Water Tank Reading	Domestic Water Tank Reading	Inlet Raw Water (KL) 9:00 AM	Outlet Domestic Water (KL) 9:00 AM
					MGF	ACF							
Maintenance Work :-												A	
												B	
												Operator Sign	
Remark :-												Site Engineer Sign	

4.9. PERIOD OF CONTRACT

Operation & Maintenance Contract shall be initially for a period of two year which may be extendable for further period of two years on same rate and terms & conditions subjected to satisfactory performance of contactor.

4.10 DAMAGE CAUSED TO INSTALLATION

In case of any damage caused to the installation due to negligence, carelessness or inefficiency of staff of the firm the contractor shall be responsible to make good the loss. Decision of the Engineer –in –charge shall be final & binding on the contractor.

4.11 PENALTY OR LD CLAUSE

4.11.1 In case of any abnormal delay on the part of the agency beyond the specified time, penalties shall be imposed and recovered from the monthly bills as under:

Minor Breakdown Rs.500/- per hour of delay subject to maximum of Rs.5000/- per fault.
Major Breakdown - Rs.1000/- per hour of delay subject to maximum of Rs.10000/- per fault.

Penalty will be imposed in following cases: -

1. If it is found that the fault has come due to the poor maintenance, penalty will be imposed as per above.
2. If delay is found to rectify the fault.

Proper report will be submitted by engineer in-charge / CAO to Competent authority for the fault issues. Accordingly, for the penalty.

4.12 .1 TOOLS & PLANTS

All the general & special tools, tackles/ chain pulley blocks etc. required for proper operation, maintenance and repairs/breakdown etc, shall be arranged by the contractor at his own cost and issue to the staff deployed by him for this work. And the contractor shall maintain the following tools & tackles in healthy condition through the period of Contract.

SLNo.	ITEM
1.	Line tester–1No.each for each technician/operator
2.	Test lamps with 2x200W lamps in series–1No.each for each technician/operator
3.	Test lamp with 2nos. spare 60WB/Clamps–1no.each for each technician/operator
4.	Four number Drill machine (Two Hammer and Two Multipurpose)with all required sizes of bits
5.	Power operated hand blower
6.	Insulated combination pliers 150mm, 250mm -1 no. each for each technician/operator
7.	Nosepliers–1no. each for each technician/operator
8.	Dry cell torch–1no. each for each technician/operator
9.	Ring Spanner for 4mm–36mm(03set)
10.	Ring spanner (slugging)36 mm-75mm in between sizes.(03 set)
11.	DE spanner 4mm–36 mm.(03 set)
12.	DE spanner (slugging) 36mm-75mm in between sizes.(03 set)
13.	Slide Wrench8”–12”(03 set)
14.	Screw driver6”–12”(03 set)
15.	Nut Driver 4mm–10mm(02 set)
16.	Allen Keyset(03 set)
17.	Megger500V(Hand driven) and 1KV (Hand driven)of reputed make.- 2 No.
18.	Earth Tester 02 no.
19.	Digital multimeter – 2 Nos. (3.5 digit precision multimeter of Fluke/Yokogawa/Rishabh make).
20.	Clamp on Meter for current measurement- 2Nos (one micro to 2A range &one up to1000A range) 02 no.
21.	Wire Brush for cleaning, Hacksaw frame and blades. 04 no
22.	Hand lamp sand lamp sets for temporary lighting. 02 no
23.	Earthing rod 02 no
24.	Crimping machine/Tools for cables and conductors(upto300sq.mm.size).
25.	Blow Lamp
26.	Soldering Iron (02 no.)
27.	Power extension Board (2 no.) with 30 Meter 4 sq mm 3core cable and
31.	Air blower -02 number
32.	Hot Air Blower- 02 number
33.	Industrial Vacuum Cleaner- 01 number
34.	Any other tool not mentioned specifically but required for satisfactory execution of The job.
35.	Empty Oil Drums (10nos)
36.	Telescopic Tower Ladder for Closing 10feet-extension 60 feet

The following T&P(in healthy condition) are to be arranged on requirement on an urgent basis within 48 hours of instruction received from EIC:	
1	Oil Filtration machine (Portable)
2	Empty Oil Drums (20nos)
3	Scaffolding materials for 75 feet height

4.13 SCHEDULE OF MAINTENANCE

Within the one week of award of work, the contractor shall submit for approval of INSTITUTE enclosing the detailed of the manpower (with experience details) to be deployed at site, schedule of operation, routine, special and preventative maintenance along with daily fortnightly and monthly activities so all works and execute as per directions of CAO/Engineer in charge, INSTITUTE.

4.14 RECORDS TO BE MAINTAINED AT SITE

The following Register shall be maintained by the contractor at site and to be got signed by CAO/Engineer in charge, Institute

- General Maintenance Log Book.
- Preventative Maintenance/Breakdown logbook.
- Account of receipt & issue of spare parts and consumable items for maintenance repairs.

4.15 PERSONAL ACCIDENT INSURANCE:

The entire contractor employee will have to be covered under insurance against any personal accident and Institute will not be liable for payment of any compensation on that account. During the execution of work, the contractor shall follow all standard norms of safety measures / precautions to avoid the accident / damages to man, machineries and building

4.16 MATERIAL AND CONSUMABLES ALONG WITH ADDITIONAL SCOPE OF WORK

4.16.1 GENERAL CONSUMABLE ITEMS TO BE MAINTAINED (THE CONTRACTOR)

Sl.No	Description
For electrical installation and all substation	
1.	Torch cell (for each torch)
2.	PVC insulating tape (SteelGrip)
3.	Teflon tape
4.	HT tape, Ampere tape, PVC tape
5.	Soap & Cleaning powder
6.	Hacksaw Blades
7.	Test/hand lamps
8.	Different type of wooden/machine/Allen Screws (MS/SS/GI/Brass), Washer, Nut etc.
9.	All GI/SS bolts, nuts of required grade(5.6/8.8 etc.), washer, spring washer, split pin etc.
10.	Cotton waste
11.	Marking cloth
12.	Jute
13.	Emery Paper
14.	Petrol
15.	Rust Oil
16.	M-seal

17	CTC/CRC
18	A minimum quantity of 800 liters of diesel shall be maintained per day for the operation of the 1010 KVA DG set, 125 KVA DG set, and the Fire Pump DG.
19	Lubricating Oil, Grease etc.
20	Kerosene oil
21	Electric contact cleaner (Both on-line and off-line cleaner of reputed make –to be Approved by the EIC)
22	Electrical contact grease (of reputed make–to be approved by the EIC)
23	Aluminum/Copper Lugs upto 300 mm ²
24	Socketing Paste
25	Solder, Paste, Cleaning material.
26	Bearing Retainer
27	Gasket sheet upto 3mm thickness
28	Terminal Block upto 16mm ²
29	HT jointer Kit (up to 300 sq mm) as and when required
30	LT Jointing kit (up to 300 sq mm) as and when required
31	Up to 185 sq mm HT cable
32	All insulators, Do fuse , AB switch , AB switch handle, lighting arrester for 33/11kv HT switch yard
34	Transformer oil (for Both Oil Transformer regarding top-up and filtration)
35	Silica Gel (for Both Oil Transformer)
WTP and STP plant with minimum required quantity for one year	
01	Chlorine – 150 ltr
02	Salt : 600 kg
03	DAP: 50 kg
04	Urea : 50 kg
05	Bio-culture : 3 ltr
06	Grease : 10 kg
07	Engine oil : 20 kg
08	Gud : 50 kg
09	Cotton waste : 20 kg
08	Hardness kit : 06 nos
09	<p>As part of the maintenance scope for the Water Treatment Plant (WTP) and Sewage Treatment Plant (STP) motors, the following services shall be included:</p> <ol style="list-style-type: none"> Rewinding of Motors and Pumps – Rewinding of defective motors as required to restore full operational functionality. Replacement of Bearings – Replacement of worn-out or damaged bearings to ensure smooth and safe motor operation. Replacement of Motor Starters and Contactors – Inspection and replacement of faulty motor starters and electrical contactors, as per requirement. Electrical Earthing – Inspection and maintenance of proper electrical earthing systems for motor safety and compliance with electrical standards. Lifting, Shifting, and Transportation – Lifting, shifting, and transportation of motors to and from the workshop for repair shall be included in the scope of service. <p>All works shall be carried out in compliance with OEM guidelines and industry standards. Any spare parts required shall be charged separately and are not included under this contract unless otherwise specified.</p>
10	<p>Additional requirements: Repair and Maintenance of STP and WTP Motors</p> <p>The contractor shall be responsible for the repair of STP and WTP motors as listed in Annexure-A. The contractor shall take charge of all the listed equipment in as-is condition at the time of contract</p>

	<p>commencement.</p> <p>After completion of the necessary repairs, the contractor shall be responsible for the operation and maintenance of the said equipment throughout the contract period and for the entire remaining service life of the equipment as defined by the Original Equipment Manufacturer (OEM), or until the equipment is declared beyond economical repair (BER), whichever is earlier.</p> <p>The contractor shall ensure that all repairs are carried out using genuine parts and in accordance with OEM standards. Any equipment declared as BER shall be jointly inspected and certified by the Engineer-in-Charge.</p>
1010 KVA DG maintenance, 125 KVA DG. Fire pump DG	
01	<p>Clause: OEM Consumables and Service Visits</p> <p>All consumables shall be provided as per the recommendations of the Original Equipment Manufacturer (OEM), either as and when required or as per the prescribed maintenance schedule. This includes all standard consumables necessary to ensure the proper functioning and upkeep of the equipment.</p> <p>Monthly visit charges of the OEM service engineer are also included under this contract.</p> <p>However, the cost of any spare parts required for repair or replacement during the contract period shall be excluded from this agreement and will be charged separately on an actual basis, subject to prior approval.</p> <p>Note: The list of OEM-recommended consumables has been received and acknowledged, and forms a reference document annexed -B to this contract for record and compliance purposes.</p>
Supply and Management of Day-to-Day Consumables (Monthly Basis)	
<p>The contractor shall be responsible for maintaining the following day-to-day consumables in the specified quantities on a monthly basis, as required for the execution of routine electrical and plumbing maintenance works. The total annual quantity of these consumables shall be fixed as per the approved schedule. If the consumption of any item exceeds the specified monthly quantity, the excess requirement may be adjusted against the quantity scheduled for the subsequent month(s), provided it does not exceed the total fixed quantity for the year.</p> <p>In the event that the total quantity consumed for any item exceeds the fixed annual quantity, the contractor shall be eligible for additional payment for the excess quantity. The rate for such additional quantity shall be as per the prevailing market rates, and the valuation shall be duly verified and certified by the Local Purchase Committee (LPC) or the Engineer-in-Charge before any payment is processed.</p> <p>All records of monthly issuance and consumption of consumables shall be maintained and submitted to the Engineer-in-Charge for review and audit purposes</p> <p>List of the items are as follows:</p>	
A: Electrical	

A: Electrical						
S.NO.	ITEM DESCRIPTION	Make	RATING	UNIT	Minimum Quantity to be Maintained Monthly	TOTAL Qty for 01 year
1	Capacitor	Havells / Epcos / Tibcon	2.5 MFD	Nos	45	150
2	Capacitor	Havells / Epcos / Tibcon	1.25 MFD	Nos	15	50
3	Capacitor	Havells / Epcos / Tibcon	150 MFD	Nos	3	10
4	Ceiling Fan Bearing	HCH / Timkeen / SKF	6201 / 6202	Nos	15	50
5	Ceiling Fan	Havells / Bajaj / Orient	70 Watt	Nos	6	20
6	Fan Rod	Zoreza / Bajaj / Orient	2.5 Ft	Nos	3	10
7	Fan Rod	Zoreza / Bajaj / Orient	3 Ft	Nos	3	10
8	Ventillation Fan	Havells / Orient / Anchor	22 Watt	Nos	24	80
9	3 Pin Top	Havells / Orient / Anchor	6 Amp	Nos	9	30

10	3 Pin Top	Havells / Orient / Anchor	16 Amp	Nos	9	30
11	Socket	Rider / Legrand / Schnieder	16 Amp	Nos	15	50
12	Socket	Rider / Legrand / Schnieder	6 Amp	Nos	15	50
13	Switch	Rider / Legrand / Schnieder	16 Amp	Nos	15	50
14	Switch	Rider / Legrand / Schnieder	6 Amp	Nos	15	50
15	Fan Regulator	Legrand / Schnieder / Havells	100 Amp	Nos	30	100
16	MCB SP C10	Schnieder / Legrand / Anchor	10 Amp	Nos	6	20
17	MCB SP C16	Schnieder / Legrand / Anchor	16 Amp	Nos	6	20
18	MCB SP C20	Schnieder / Legrand / Anchor	20 Amp	Nos	6	20
19	MCB SP C32	Schnieder / Legrand / Anchor	32 Amp	Nos	6	20
20	MCB SP C40	Schnieder / Legrand / Anchor	40 Amp	Nos	6	20
21	MCB SP C63	Schnieder / Legrand / Anchor	63 Amp	Nos	6	20
22	MCB DP C16	Schnieder / Legrand / Anchor	16 Amp	Nos	6	20
23	MCB DP C20	Schnieder / Legrand / Anchor	20 Amp	Nos	6	20
24	MCB DP C32	Schnieder / Legrand / Anchor	32 Amp	Nos	6	20
25	MCB DP C40	Schnieder / Legrand / Anchor	40 Amp	Nos	6	20
26	MCB DP C63	Schnieder / Legrand / Anchor	63 Amp	Nos	6	20
27	MCB TPN C32	Schnieder / Legrand / Anchor	32 Amp	Nos	3	10
28	MCB TPN C40	Schnieder / Legrand / Anchor	40 Amp	Nos	3	10
29	MCB TPN C63	Schnieder / Legrand / Anchor	63 Amp	Nos	3	10
30	RCCB Single Phase	Schnieder / Legrand / Anchor	16 Amp	Nos	3	10
31	RCCB 3 Phase	Schnieder / Legrand / Anchor	63 Amp	Nos	3	10
32	RCCB 3 Phase	Schnieder / Legrand / Anchor	40 Amp	Nos	3	10
33	Pressure Switch	Indfos / Danfoss / Lefcoo	0.2/7.5 BAR	Nos	3	10
34	Pressure Switch	Indfos / Danfoss / Lefcoo	6/15 BAR	Nos	3	10
35	Heating Element Rod	Bajaj / Power pack / Havells	5000 Watt	Nos	9	30
36	Geyser Rod	Bajaj / Power pack / Havells	3000 Watt	Nos	9	30
37	Thermostate Auto Cut Off	Bajaj / Power pack / Havells	20 Amp	Nos	18	60
38	Switch	Rider	10 Amp	Nos	30	100
39	Switch	Rider	16 Amp	Nos	30	100
40	Socket	Rider	10 Amp	Nos	30	100
41	Socket	Rider	16 Amp	Nos	30	100
42	Timer Switch	Legrand	5 Amp	Nos	9	30
43	PVC Pipe	Sarswati / Plasto / Polycab	25 mm	Nos	60	200
44	PVC Bend	Sarswati / Plasto / Polycab	25 mm	Nos	60	200
45	GI Flexiabe Pipe	Sarswati / Plasto / Polycab	25 mm	MTR.	30	100
46	LED Surface Light	Phillips / Orient / Havells	10 Amp	Nos	15	50
47	LED Down Light	Phillips / Orient / Havells	12 Amp	Nos	15	50
48	2Ft Battan Light	Phillips / Orient / Havells	10 Amp	Nos	30	100
49	Contactora	Schnieder / L & T / Legrand	40 Amp	Nos	3	10
50	Contactora	Schnieder / L & T / Legrand	50 Amp	Nos	3	10
51	Over Load Relay	Schnieder / L & T / Legrand	10 Amp	Nos	3	10
52	Phase Failure Relay	Minilac / L & T	240VAC	Nos	3	10
53	8 Pin Relay	Salzer / Omron / Arino	MSP 2P 5 Amp	Nos	3	10
54	Phase Sequace Relay	Salzer / Omron / Arino	K8DS	Nos	3	10
55	Voltage Protection Relay	Salzer / Omron / Arino	15 Amp	Nos	3	10
56	Street Light LED Driver	Phillips / Orient / Havells	45 Watt	Nos	12	40
57	Street Light LED Driver	Phillips / Orient / Havells	100 Watt	Nos	3	10
58	LED Panel Light 2x2 Ft Driver	Phillips / Orient / Havells	37 Watt	Nos	6	20
59	LED Panel Light 1x4 Ft Driver	Phillips / Orient / Havells	40 Watt	Nos	6	20
60	LED Panel Light 1x4 Ft Driver	Phillips / Orient / Havells	50 Watt	Nos	6	20
62	Earhting Chemical	Earh way	25 Kg	Pkt	6	20
63	Earthing Rod	Obo	10 Ft	Nos	3	10
64	Earthing Wire	Polycab	6 sq mm	MTR.	30	100

65	Kaju Clips	Tejas / Taj / Hi Clip	25 mm	PKt	3	10
66	Kaju Clips	Tejas / Taj / Hi Clip	20 mm	PKt	3	10
67	Kaju Clips	Tejas / Taj / Hi Clip	16 mm	PKt	3	10
68	Kaju Clips	Tejas / Taj / Hi Clip	12 mm	PKt	3	10
69	Kaju Clips	Tejas / Taj / Hi Clip	10 mm	PKt	3	10
70	Kaju Clips	Tejas / Taj / Hi Clip	8 mm	PKt	3	10
71	Kaju Clips	Tejas / Taj / Hi Clip	6 mm	PKt	3	10
72	Kaju Clips	Tejas / Taj / Hi Clip	4 mm	PKt	3	10
73	Casin Khila	Tejas / Taj / Hi Clip		PKt	3	10
74	Wire	KEI / RR / Polycab	1.0 mm	PKt	3	10
75	Wire	KEI / RR / Polycab	1.5 mm	PKt	3	10
76	Wire	KEI / RR / Polycab	2.5 mm	PKt	3	10
77	Wire	KEI / RR / Polycab	4.0 mm	PKt	3	10
78	Tubelight Rod	Phillips / Orient / Havells	20 Watt	Nos	30	100
79	Metal box	Schnieder / Legrand / Rider	4M	Nos	9	30
80	Metal box	Schnieder / Legrand / Rider	6M	Nos	9	30
81	Metal box	Schnieder / Legrand / Rider	8M	Nos	9	30
82	Metal box	Schnieder / Legrand / Rider	12M	Nos	9	30
83	PVC Plate	Schnieder / Legrand / Rider	4M	Nos	9	30
84	PVC Plate	Schnieder / Legrand / Rider	6M	Nos	9	30
85	PVC Plate	Schnieder / Legrand / Rider	8M	Nos	9	30
86	PVC Plate	Schnieder / Legrand / Rider	12M	Nos	9	30
26	Overlod Relay	Approved by Engineer in-charge	16A		5	1
27	Contactora		40A		1	1
28	8 Pin Relay		5A		2	2
29	3PH sequence Relay				2	2
30	GIC Relay				2	2
31	Ampere Meter				5	5
32	WLC D1 Relay		240 VAC		1	1
33	3PH Preventor Relay VSP D2		240 VAC		1	1
26	Overlod Relay		16A		5	5

B: PLUMBING CONSUMABLE MATERIAL LIST

SNO	MATERIAL DESCRIPTION	Make	Unit	Minimum Quantity to be Maintained Monthly	TOTAL Qty for 01 year
1	50mm CPVC Elbow	Supreme,Finolex ,Astral	Nos	12	24
2	50mm CPVC Socket	Supreme,Finolex ,Astral	Nos	12	24
3	50mm CPVC MTA	Supreme,Finolex ,Astral	Nos	10	20
4	50mm CPVC Pipe-3 Meter Length	Supreme,Finolex ,Astral	Nos	15	30
5	50mm CPVC TEE	Supreme,Finolex ,Astral	Nos	10	20
6	50 mm CPVC End Cap	Supreme,Finolex ,Astral	Nos	20	40
7	50mm CPVC FTA	Supreme,Finolex ,Astral	Nos	15	30
8	40mm CPVC Pipe	Supreme,Finolex ,Astral	Nos	13	25
9	40mm CPVC TEE	Supreme,Finolex ,Astral	Nos	10	20
10	40mm CPVC Elbow	Supreme,Finolex ,Astral	Nos	15	30
11	40mm CPVC Socket	Supreme,Finolex ,Astral	Nos	15	30
12	40mm CPVC FTA	Supreme,Finolex ,Astral	Nos	15	30
13	40mm CPVC End Cap	Supreme,Finolex ,Astral	Nos	15	30
14	40mm Ball Valve GI	Supreme,Finolex ,Astral	Nos	15	30
15	32mm CPVC Pipe	Supreme,Finolex ,Astral	Nos	30	60
16	32mm CPVC Elbow	Supreme,Finolex ,Astral	Nos	30	60
17	32mm CPVC Socket	Supreme,Finolex ,Astral	Nos	30	60
18	32mm CPVC TEE	Supreme,Finolex ,Astral	Nos	30	60
19	32mm CPVC MTA	Supreme,Finolex ,Astral	Nos	30	60
20	32mm CPVC FTA	Supreme,Finolex ,Astral	Nos	30	60

21	32mm CPVC End Cap	Supreme,Finolex ,Astral	Nos	30	60
22	32mm CPVC Valve	Supreme,Finolex ,Astral	Nos	30	60
23	25mm CPVC Pipe-3 Meter Length	Supreme,Finolex ,Astral	Nos	30	60
24	25mm CPVC Elbow	Supreme,Finolex ,Astral	Nos	35	70
25	25mm CPVC Socket	Supreme,Finolex ,Astral	Nos	35	70
26	25mm CPVC TEE	Supreme,Finolex ,Astral	Nos	35	70
27	25x20 mm CPVC TEE	Supreme,Finolex ,Astral	Nos	35	70
28	25mm CPVC FTA	Supreme,Finolex ,Astral	Nos	35	70
29	25 mm CPVC Union	Supreme,Finolex ,Astral	Nos	35	70
30	25mm CPVC MTA	Supreme,Finolex ,Astral	Nos	35	70
31	25mm CPVC End Cap	Supreme,Finolex ,Astral	Nos	25	50
32	25mm CPVC Ball Valve	Supreme,Finolex ,Astral	Nos	13	25
33	25x20 mm CPVC Reducer	Supreme,Finolex ,Astral	Nos	10	20
34	25mm CPVC Valve	Supreme,Finolex ,Astral	Nos	15	30
35	20mm CPVC Pipe-3 Meter Length	Supreme,Finolex ,Astral	Nos	25	50
36	20mm CPVC Elbow	Supreme,Finolex ,Astral	Nos	30	60
37	20mm Socket CPVC	Supreme,Finolex ,Astral	Nos	30	60
38	20mm CPVC TEE	Supreme,Finolex ,Astral	Nos	30	60
39	20mm MTA CPVC	Supreme,Finolex ,Astral	Nos	30	60
40	20mm FTA CPVC	Supreme,Finolex ,Astral	Nos	30	60
41	20mm CPVC End Cap	Supreme,Finolex ,Astral	Nos	30	60
42	20'15mm MTA CPVC	Supreme,Finolex ,Astral	Nos	15	30
43	20'15mm Brass Elbow CPVC	Supreme,Finolex ,Astral	Nos	15	30
44	20mm CPVC Valve	Supreme,Finolex ,Astral	Nos	15	30
45	15mm CPVC Pipe-3 Meter Length	Supreme,Finolex ,Astral	Nos	20	40
46	15mm CPVC Elbow	Supreme,Finolex ,Astral	Nos	15	30
47	15mm CPVC Socket	Supreme,Finolex ,Astral	Nos	30	60
48	15mm CPVC TEE	Supreme,Finolex ,Astral	Nos	30	60
49	15mm CPVC MTA	Supreme,Finolex ,Astral	Nos	30	60
50	15mm CPVC FTA	Supreme,Finolex ,Astral	Nos	30	60
51	15mm CPVC Valve	Supreme,Finolex ,Astral	Nos	30	60
52	15mm CPVC End Cap	Supreme,Finolex ,Astral	Nos	30	60
53	20'15mm Bush CPVC	Supreme,Finolex ,Astral	Nos	30	60
54	25x20 mm CPVC Bush	Supreme,Finolex ,Astral	Nos	30	60
55	15mm CPVC Plug Nipple	Supreme,Finolex ,Astral	Nos	30	60
56	SINK PVC WASTE PIPE	Supreme,Finolex ,Astral	Nos	28	55
57	Gysor Connection Pipe 18"	CERA,Jaugar ,Hindware	Nos	20	40
58	Health faucet Gun (Metal Body)	Hindware,Jaquar ,parryware	Nos	150	300
59	Health faucet Set (Metal Body)	Hindware,Jaquar ,parryware	Nos	50	100
60	Soap disk Glass	Any Reputede Brand	Nos	50	100
61	Health faucet stand	Hindware,Jaquar ,parryware	Nos	50	100
62	West Coupling	Hindware,Jaquar ,parryware	Nos	25	50
63	Kithen Sink Coupling	Hindware,Jaquar ,parryware	Nos	10	20
64	25mm GI Valve	Zoloto ,Leader	Nos	10	20
65	15mm GI Valve	Zoloto ,Leader	Nos	10	20
66	Bottal trap	CERA,Jaugar ,Hindware	Nos	10	20
67	shower ARM 12'	CERA,Jaugar ,Hindware	Nos	15	30
68	Shower Set 4/4	CERA,Jaugar ,Hindware	Nos	15	30
69	Flushing Ball Cock	CERA,Jaugar ,Hindware	Nos	12	24
70	Syfone Set	CERA,Jaugar ,Hindware	Nos	10	20
71	110mm PVC D Jointer	Supreme,Finolex ,Astral	Nos	25	50
72	Splender Divertor	Jaquar	Nos	20	40
73	Sink Mixture Splender	Jaquar	Nos	30	60
74	Splender Spring typ	Jaquar	Nos	30	60
75	Mixture Handel	Hindware,Jaquar ,parryware	Nos	10	20
76	Angel Cock Pixes	Hindware,Jaquar ,parryware	Nos	10	20
77	Focum Flow nozzel	Hindware,Jaquar ,parryware	Nos	25	50
78	RO Ball valve	Hindware,Jaquar ,parryware	Nos	15	30

79	x Nipple	Hindware,Jaquar,parryware	Nos	15	30
80	CP ROUND Jaali 5"	Hindware,Jaquar,parryware	Nos	10	20
81	CP ROUND Jaali 4"	Hindware,Jaquar,parryware	Nos	10	20
82	CP SQUARE Jaali 5"	Hindware,Jaquar,parryware	Nos	10	20
83	CP SQUARE Jaali 4"	Hindware,Jaquar,parryware	Nos	10	20
84	15mm Water Coller ball Cock	Hindware,Jaquar,parryware	Nos	10	20
85	40mm GI Ball Cock	Hindware,Jaquar,parryware	Nos	10	20
86	32mm GI Ball Cock	Hindware,Jaquar,parryware	Nos	10	20
87	25mm GI Ball Cock	Hindware,Jaquar,parryware	Nos	10	20
88	25mm PVC Ball Cock	Hindware,Jaquar,parryware	Nos	10	20
89	Seat Cover locker	Hindware,Jaquar,parryware	Nos	50	100
90	Seat Cover Jaguar	Jaquar	Nos	15	30
91	Seat	Hindware,Jaquar,parryware	Nos	10	20
92	65mm Flang CPVC	Supreme,Finolex ,Astral	Nos	8	15
93	75mm Y Tee PVC	Supreme,Finolex ,Astral	Nos	8	15
94	75mm Bend PVC	Supreme,Finolex ,Astral	Nos	8	15
95	75mm SU Bend PVC	Supreme,Finolex ,Astral	Nos	8	15
96	75mm CLAMP PVC	Supreme,Finolex ,Astral	Nos	8	15
97	110mm CLAMP PVC	Supreme,Finolex ,Astral	Nos	8	15
98	Kithen Sink Mixture 24*18	Hindware,Jaquar,parryware	Nos	5	10
99	CPVC SOLVENT 237 ml	Supreme,Finolex ,Astral	Nos	18	36
100	Towel Rod	Hindware,Jaquar,parryware	Nos	15	30
101	SILICON	Supreme,Finolex ,Astral	Nos	50	100
102	Commond Fasner	Hindware,Jaquar,parryware	Nos	25	50
103	Paper Holder	Hindware,Jaquar,parryware	Nos	15	30
104	Jaguar Flush Sisten	Hindware,Jaquar,parryware	Nos	15	30
105	CP Hole Jaali Round 5"	Hindware,Jaquar,parryware	Nos	25	50
106	15*15 CPVC Brass Elbow	Supreme,Finolex ,Astral	Nos	25	50
107	110 mm PVC Socket	Supreme,Finolex ,Astral	Nos	10	20
108	50*25mm CPVC Reducing Tee	Supreme,Finolex ,Astral	Nos	10	20
109	40*25mm CPVC Bush	Supreme,Finolex ,Astral	Nos	10	20
110	32*25mm CPVC Reducing Tee	Supreme,Finolex ,Astral	Nos	10	20
111	1/2"*2 CP Nipple	Supreme,Finolex ,Astral	Nos	30	60
112	1/2"*1 CP Nipple	Supreme,Finolex ,Astral	Nos	30	60
113	Besin Mixture Splender JAGUAR	Supreme,Finolex ,Astral	Nos	10	20
114	50*25 mm GI Reducer	Supreme,Finolex ,Astral	Nos	10	20
115	25mm GI Elbow	Supreme,Finolex ,Astral	Nos	10	20
116	25*4" GI Nipple	Supreme,Finolex ,Astral	Nos	8	15
117	25*6" GI Nipple	Supreme,Finolex ,Astral	Nos	8	15
118	25mm GI Hos Nipple	Supreme,Finolex ,Astral	Nos	10	20
119	25mm GI Ring Clamp	Supreme,Finolex ,Astral	Nos	10	20
120	25mm PVC Transparent LEVEL Pipe	Supreme,Finolex ,Astral	Mtr	13	25
121	110 MM PVC Plain Bend	Supreme,Finolex ,Astral	Nos	10	20
122	short Body tap	Hindware,Jaquar,parryware	Nos	20	40
123	Long Body Tap	Hindware,Jaquar,parryware	Nos	20	40
124	2 way bib tap	Hindware,Jaquar,parryware	Nos	20	40
125	HDPE Pipe 110mm	Supreme,Finolex ,Astral	Mtr	12	12
126	HDPE Pipe 75mm	Supreme,Finolex ,Astral	Mtr	12	12
127	HDPE Pipe 50mm	Supreme,Finolex ,Astral	Mtr	12	12
128	HDPE Pipe 125mm	Supreme,Finolex ,Astral	Mtr	12	12
129	HDPE Flnge Set 125mm	Supreme,Finolex ,Astral	Nos	6	6
130	HDPE Flnge Set 110mm	Supreme,Finolex ,Astral	Nos	6	6
131	150mm CPVC Pipe	Astral/Supreme/Finolex	Nos	5	5
132	150mm CPVC Socket	Astral/Supreme/Finolex	Nos	5	5
133	150mm CPVC Elbow	Astral/Supreme/Finolex	Nos	5	5
134	150mm CPVC Flange	Astral/Supreme/Finolex	Nos	5	5
135	110mm CPVC Pipe	Astral/Supreme/Finolex	Nos	5	5
136	110mm PVC Pipe	Astral/Supreme/Finolex	Nos	5	5

137	110mm CPVC Elbow	Astral/Supreme/Finolex	Nos	20	20
138	110mm CPVC Socket	Astral/Supreme/Finolex	Nos	20	20
139	110mm CPVC Union	Astral/Supreme/Finolex	Nos	10	10
140	65 mm CPVC Pipe	Astral/Supreme/Finolex	Nos	5	5
141	65 mm CPVC Socket	Astral/Supreme/Finolex	Nos	5	5
142	65 mm CPVC Flange	Astral/Supreme/Finolex	Nos	10	10
143	65 mm CPVC Butterfly valve	Zoloto	Nos	10	10

C: WTP & STP Consumable				
S.No.	Name of the Item	Size	Unit	Quantity
1	Pressure gauge	4 Inch	Nos	7
2	Pressure gauge	2 Inch	Nos	3
3	S Nipple	20 mm	Nos	3
4	Brass NRV	40 mm	Nos	1
5	NRV	50 mm	Nos	1
6	NRV	80 mm	Nos	1
7	Pressure Tank	453 Ltr.	Nos	2
8	GI Nipple	50 mm	Nos	1
9	GI Hose Nipple	50 mm	Nos	1
10	GI Elbow	50 mm	Nos	1
11	Valve	80 mm	Nos	1
12	Air Filter		Nos	3
13	V Belt	B 52	Nos	9
14	Blower Bearing		Nos	2
15	Packing Seal		Nos	3
16	Glesring Pressure gauge	4 Inch	Nos	1
17	Fan Pankhudi	140mm dia 30mm shaft	Nos	
18	Spider Coupler Rubber		Nos	1
19	Fuel connecting pipe	Mtr	Mtr	3
20	Gate valve	25 mm	Nos	1
21	Handle	110 mm	Nos	1
22	Inlet Flow Meter	100 mm, dia 150 psi 8 nut bolt	Nos	1
23	BMS Flow Meter		Nos	3
24	Flow Meter Equalizer (STP FILTER)		Nos	1
25	Clorine Dosing pump		Nos	2
Approved Make : As per Existing makes of all fitting and accessories				

The above consumable must be available with enough in Substation store if any work hampered due to this consumable's penalty charges will be imposed as per agreement

Water Test report as Follows:

S.No	Description	Parameters	Qty.	Remark
1	Waste Water Sample(STP)	PH,TSS,COD,BOD,Oil & Grease,Total Kjendahl Nitrogen(TKN),Ammonical Nitrogen,Residual Chlorine,Total Bacteria Count, Phosphate	2 (Inlet & Outlet)	From NABL Accredited labs
2	WTP Sample Analysis	PH,Total Dissolved Solids,Conductivity,Turbidity ,Total Hardness, Calcium,Magnesium,Chloride,Total Alkalinity,SO4,NO3,Fe,Fluoride,Total Bacteria Count	18	From NABL Accredited labs

PAYMENT FOR THE ABOVE TEST REPORT WILL BE THE SCOPE OF CONTRACTOR

Note: STP sample taken criteria should be on quarterly basis while for WTP water sample on monthly basis

Annexure -B

Spare Consumable parts of DG 1010 KVA

S.N.	Particulars	Unit	Qty
1.	ELEMENT, LUB OIL FILTER	Each	4
2.	KIT, FUEL FILTER AND RING	Each	2
3.	KIT, SUPER BYP.FILTER ELEM	Each	2
4.	SEAL, O RING	Each	2
5.	ELEMENT, AIR CLEANER	Each	3
6.	FUNNEL DUAL FUEL FILTER-CONDUCTIVE-L	Each	1
7.	ELEMENT, AIR CLEANER	Each	2
8.	FUEL SURE SULPHUR KIT SET OF 2	Each	1
9.	INHIBITOR, CORROSION	Each	1
10.	COOLANT EG 50:50 PREMIXED 50 LT DRUM	Each	2
11.	K38G5 HOSE KIT (RADIATOR OPTION)	Each	1

12.	RADIWASH 5LITERS	Each	4
13.	VALVOLINE PREMIUM BLUE 7800PLUS 1/55 LTR	Each	1
14.	RECTIFIER SERVICE KIT	Each	1
15.	ACTUATOR, ETR FUEL CONTROL	Each	1
16.	BATTERY PULSE 24V 100 AH	Nos	01
17.	EMERGENCY STOP SWITCH	Nos	01

Spare Consumable Parts of DG 125 KVA

S.No.	Description	Qty
1	KIRLOSKAR CARE SUPER GENUINE OIL 20 LITERS CAN	1
2	SPINON LUBE OIL FILTER	2
3	FUEL FILTER ELEMENT PRIMARY	1
4	FUEL FILTER ELEMENT SECONDARY	1
5	PRIMARY AIR FILTER ELEMENT	1
6	KOEL CARE GENUINE COOLANT PREMIX 26 LITERS CAN	1
7	KOEL CARE GENUINE COOLANT PREMIX 10 LITRE CAN	1
8	SS LH HINGE FOR CANOPY	2
9	BATTERY CHARGER - 6A 12V	1
10	CONVERSION KIT FROM KG 934 TO KG 645	1
11	LUBE OIL PRESSURE SENDOR	1
12	RELAY BOARD 2 & 1/2 12V DC	1
13	BATTERY 150AH	1
14	AMF STANDARD PANEL OF 125KVA	1
15	AMF PANEL ASSEMBLE AND FITMENT	1

Spare Consumable Parts of Fire DG 85 H

S.No.	Description	Qty
1	Kirloskar Care Super Genuine Oil 13 Liters Can	1
2	Spinon Lube Oil Filter	1
3	Fuel Filter Kit 1.1 Ltr	1
4	Koel Care Genuine Coolant Premix 10 Litre Can	2
5	Primary Filter Element	1
6	Fuel Pipe 8.0 14 B 1000 Wb	2
7	Battery 150 AH	1

Note:

Apart from the consumable items listed in **Annexure-B**, if any **additional consumables** are recommended by the **Original Equipment Manufacturer (OEM)** for the proper and efficient maintenance of the **HT DG set, LT DG set, and Fire Pump DG**, the supply and provision of such consumables shall be **within the scope of the contractor**. However, this shall **exclude spare parts**, which will be dealt with separately and **shall not be considered under the consumables scope**. any additional consumables which

Annexure -A

STP Pumps for Maintenance						
S.N.	Description of Equipment	Rating	Unit	Qty	Status	Remarks
1	Filter Feed Pump	3 HP	Nos	2	Ok	
2	Hydro Pneumatic Pump for drip irrigation + Pressure Tank (02 Unit)	3 KW	Nos	3	Ok	Pressure Tank (02 Unit) & NRV (40mm) Damaged
3	Sewage Transfer Pump	3 HP	Nos	2	Ok	40 mm NRV issue
4	Sewage Re-Circulation Pump	3 HP	Nos	2	Nok	Gasket issue
5	Hydro Pneumatic Pump for drip irrigation	7.5 KW	Nos	3	Ok	1 pump leakage issue & Auto panel not functioning
6	Soft Water Transfer Pump	3 KW	Nos	2	Ok	
7	Softener Feed Pump	2.2 KW	Nos	2	Ok	
8	Back Wash Pump	1.5 KW	Nos	1	Ok	
9	Air Blower	12.5 HP	Nos	3	Nok	1 Nos Pump not functioning, 2 Nos pump bearing & Filter Issue (* 2 Nos Pump currently Functioning)
10	Screw Slurry Pump	1.1 KW	Nos	2	Ok	50 mm NRV Issue
11	UV System (Irrigation Pump)	730 W	Nos	1	Ok	
12	UV System (Flushing Pump)	730 W	Nos	1	Ok	
13	UV System (Softener Transfer Pump)	730 W	Nos	1	Ok	
Filter (STP)						
1	Multi-grade Sand Filter		Nos	1	Ok	
2	Active Carbon Filter		Nos	1	Ok	
3	Softener with Brine Tank		Nos	1	Ok	
4	Air Vent for MBBR1 / MBBR 2		Nos	1	Ok	
5	Filter Press		Nos	1	Ok	
6	Bar Screen		Nos	1	Ok	
7	Chlorine Dosing System for Softener		Nos	1	Nok	Pump not functioning
8	Chlorine Dosing System for Filter Feed Tank		Nos	1	Ok	
9	Flow Meter (Equi-1)		Nos	1	Nok	Meter not

						functioning
10	Flow Meter (Carbon Filter Out-1)		Nos	1	Ok	
11	Flow Meter (MBS)		Nos	1	Nok	Proper not functioning
12	PH Meter		Nos	1	Ok	
13	Tube settler tank		Nos	1	Nok	Jali issue

Note for STP :-

- 1) Pressure Gauge 4 inch – 5 Nos
- 2) Pressure Gauge 2 inch – 3 Nos
- 3) Air Blower Belt Size A52 – 20 Nos
- 4) Exhaust Fan – 01 Nos

WTP Pumps for Maintenance						
S.N.	Description of Equipment	Rating	Unit	Qty	Status	Remarks
1	Filter Feed Pump	5.5 KW	Nos	3	Ok	03 Nos Pressure Gauge set, motor fan blade required & Auto panel not functioning
2	Irrigation Pump	2.2 KW	Nos	2	Ok	
3	Hydro Pneumatic Pump	5.5 KW	Nos	3	Ok	1 Pump leakage issue & Auto panel not functioning
4	Submersible Pump	1.5 KW	Nos	2	Ok	
5	Air Blower Pump	1.1 KW	Nos	1	Ok	
6	Back Wash Pump	1.5 KW	Nos	1	Ok	
Filter (WTP)						
1	Multi-grade Sand Filter		Nos	1	Ok	
2	Active Carbon Filter		Nos	1	Ok	Gate valve & Pressure gauge Issue
3	Softener Tank		Nos	1	Ok	
4	Chlorine Dosing System for Raw Water		Nos	1	Nok	
5	Chlorine Dosing System for Filter Water		Nos	1	Nok	
6	Flow Meter (BMS)		Nos	1	Nok	
7	Flow Meter (TDS)		Nos	1	Nok	
Maintenance of Fire Hydrant						
1	Jockey Pump		Nos	2	Ok	Auto panel not functioning
2	Main hydrant pump		Nos	2	Ok	1 Nos Spider coupler issue & Auto panel not functioning
3	Diesel pump		Nos	1	Ok	

4.17 PERIOD OF OPERATION

The system shall be kept in good working conditions round the clock without any defect.

4.18 Minimum manpower Details with requisite qualification /Experience of Manpower

A: for (33/11/440) switchyard and substation

1. One Site-in-Charge has to be deployed in the general shift who will monitor the work on Regular basis and act as as ingle point of contact with the Institute.
2. One Electrician and One Helper, each in three shifts has to be deployed on a regular basis.
3. Additionally, Two Electrician and Two Helper must be deployed in general shift.

Sl.No	Category of Manpower Engaged	requisite Qualification	requisite Experience
1	Site-in-Charge (Highly Skilled)	Degree/Diploma in Electrical Engineering with Electrical Supervisory License in 33KV (or above) is mandatory.	Degree with a minimum of 1(One) year relevant experience in Electrical O&M experience in 33KV (or above) Switch Yard and allied equipment's etc. Or Diploma with a minimum of 3(Three) years relevant experience in Electrical O&M experience in 33KV (or above)Switch Yard and allied equipment's etc.
2	Electrician(Skilled)	ITI (Electrical Trade)/Class 10 pass with valid Electrical Workmen License.	ITI with Minimum 3(Three) years relevant experience in Electrical Operation & Maintenance in 33KV (or above) Switch yard and allied equipment etc. or Class 10 pass with 5 (Five) years' relevant experience in Electrical Operation & Maintenance in 33KV (or above) Switch yard and allied equipment etc. or The person with Class8 qualification with minimum 7years experience in Electrical Operation & Maintenance in 33KV(or above) Switch yard and allied equipment etc.,with valid Electrical Workmen License may also be considered. .
03	Helper(Unskilled)	Class 10 th Pass	Two Years work Experience in Electrical works

B: for WTP, STP Plant, AHUs and Fire Hydrant of the campus

1. One Supervisor has to be deployed in the general shift who will monitor WTP, STP Plant, HVAC and fire hydrant work of entire campus, work on regular basis and act as single point of contact with the Institute.
2. One Plumber and One Helper, each in three shifts has to be deployed on a regular basis.
3. Additionally, two plumbers and two Helper must be deployed in general shift.

Sl.No	Category of Manpower Engaged	Requisite Qualification	Requisite Experience
1	Supervisor (Highly Skilled)	Diploma/ ITI /12 th Pass	Diploma in Mechanical Engineering with Two Year experience in field of operation and maintenance of WTP Plant, STP Plant Fire Hydrant, HVAC Services / ITI in fitter trade will be Three Year Experience / 10 th Pass with experience of 08 years
2	Semi-skilled	Diploma in Civil/ ITI fitter	Diploma & ITI with Minimum 01 (One) years relevant experience in field of operation and maintenance of WTP Plant ,STP Plant Fire Hydrant, HVAC Services
3	Helper (Unskilled)	Class 10 th pass	Two-year work experience in electrical and plumbing filed

Total Number of Manpower Details

S.N.	Category of Manpower	Qty
01	Highly Skilled	02
02	Skilled	05
03	Semi-Skilled	05
04	Unskilled	10

4.19 EXIT CLAUSE

Contract can be reviewed any time. The contract can be terminated by giving two-month notice period by the Institute and two months' notice by the contractor.

4.20 CONTRACT AGREEMENT

The successful bidder shall be bound to execute an agreement on non-judicial stamp paper of Rs. 100/- (One hundred only). IIMR reserves the right to amend the terms & conditions of contract by mutual discussions and shall be in writing. The amended terms and condition will form part of the agreement.

4.21 OTHER

- Intending tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders to the nature of the site on the day of the pre-bid meeting or before submitting bid. The nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstance which may influence or effect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. Submission of tender by a tenderer implies that he has read this notice and all other contract documents has made himself aware of the scope and specifications of the work do be done.
- The IIMR will not provide any residential space for accommodation to the Agency. The agency has to make its own arrangement for the residential accommodation to the deployed staff.
- The scope of work may change during the period of contract by mutual consent.
- The IIMR is not bound to award contract at the lowest price received in the Tender and reserves the right to decide on fair and reasonable price of the services tendered for any counter offer the same to the bidders. All other terms and conditions of the tender shall remain operative even if a counter offer rate is offered to the bidders. IIMR reserves the right to negotiate with first lowest bidder to arrive at the fair and reasonable price. In case of first lowest is more than one, then it would be at the discretion of the IIMR.
- Sub-Contracting: The contractor shall not assign, sub-contract or sub-let the whole or any part of the contract in any manner. In case of an unavoidable circumstance, the contractor shall be able to do it with the approval of the Institute. However, the job shall be sublet only to the party approved by the Institute.
- The contractor and his employees shall comply with all norms stipulated by the Institute such as Gate Passes, Checking, Maintenance of Cleanliness, Discipline & Decency at and around the work site, Safety Precautions and Safety Regulations.
- Misconduct: The conduct/characters/antecedents and proper bonafide of the workers shall be the sole responsibility of the contractor. However, the contractor should provide the necessary details of all its employees to the Institute. All the employees should be police verified.
- The persons employed by the contractor will be the employees of the contractor and the IIMR shall have nothing to do with their employment or non-employment. Under no circumstances any liability in respect of matters connected with their employment shall be held against the IIMR and the personnel employed by the contractor shall have no right whatsoever to claim employment or other rights from the IIMR.
- There should be no case pending with the police against the Proprietor/Firm/Partner or the Company (Agency) and the firm should not be blacklisted. An undertaking to this effect on firm letterhead should be attached.
- IIMR reserves the right to reject all or any tender in whole, or in part, without assigning any reasons thereof.
- IIMR reserves the right to withdraw/relax/modify any of the terms and conditions mentioned in the tender document if it felt necessary in the benefit of the Institute.
- The decision of the Director of IIMR will be final in all respect and will be acceptable to all the tenderers.

Annexure-I

Agency Details (Technical Bid Part)

I. Details of Tenderer		
<u>Sr.</u>	<u>Particulars</u>	<u>Details</u>
1	Name of Tendering Agency	
2	Name of the Proprietor/ Director/ Partner	
3	Full Address of registered office with pin code	
4	Mobile number of two top officials with name and designation	
5	E-mail ID of the two top officials with name	
6	Website of the agency, if any	
7	Name and designation of authorized person with mobile number (authorization letter to be enclosed)	
II. Registration and Other Statutory document details:		
The agency should possess all statutory requirements including labour License, PF, ESIC, GST, PAN etc.		
1	Name of the agency (Individual/ Pvt. Ltd./ Ltd Company etc.) and Month & Year of the Establishment (attach self-attested copy)	
2	Permanent Account Number	
3	GST Registration Number	
4	PF Registration No.	
5	ESI Registration No.	
6	Registered labor license / Certificate no	License No- Validity till

Certified that all above information's are correct to the best of my/our information, knowledge and belief. All the attached relevant documents are duly signed, sealed and serially numbered.

Place:

Date:

(Signature of the bidder with seal)

Annexure-II

Tender ACCEPTANCE LETTER

(To be given on Company Letter Head)

To,
Director
IIM Raipur

Date :

Sub.: Acceptance of Terms & Conditions of Tender.

GeM bid/tender reference no and date.: _____

Name of Tender / Work: _____.

Dear Sir,

1. I/We have downloaded I obtained the tender document (s) for the above mentioned 'Tender/Work' for the web site(s) namely: _____ as per your advertisement, given in the above mentioned website(s).
2. I/We hereby certify that I/We have read the entire terms and conditions of the tender documents from Page No. ____ to ____ (including all documents like annexure(s), schedule(s), etc.,) which form part of the contract agreement and I/we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department / organization too have all been taken into consideration, while submitting this acceptance letter.
4. I/We hereby unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totally / entirely.
5. In case any provisions of this tender are found violated, then your department/organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely.

Yours faithfully,

(Signature of the Bidder, with Official Seal)

Annexure – ` III `

Certificate

I/ We/ Auditor name/ CA name/ CA firm name/
..... declare that
agency name/ proprietor
name..... is not a
defaulter / backlisted to any Govt. organization since last
5 years from the date of issue of this tender no. &
date..... . In
addition to that 'No court case' has pending against the
agency (proprietor /firm / partner or the company) since
last 5 years in the labour court, GST office and any other
court'.

Seal and sign of
Statutory auditor / CA auditor
UDIN no.

Note: Without seal of 'Statutory auditor / CA auditor' with UDIN number the certificate will remain null and void.

SECTION 6

PRICE BID SCHEDULE

I. MANPOWER CHARGES INCLUDING PF, ESI AND PAID WEEKLY OFF (EXCLUDING BONUS) AS PER THE * NOTES BELOW-

Govt. of India, Ministry of Labor & Employment, office of Chief Labor Commissioner, New Delhi vide Notification number F. No. I/6(3)/2025-LS-II revised wages rate w.e.f 01.04.2025 (Area B, construction or maintenance or housekeeping or in building operations category) - ***Bidders are requested to quote the minimum rates in the manpower charges (total per month per worker) as per mentioned rates reference , below these rates the bid will be rejected.***

	Type of manpower	Rate per Month (Rs.)	Total Nos.	Amount per month (Rs.)
A.	Highly skilled	Rs. 29,610.00	01	Rs.29,610.00
B.	Skilled	Rs. 28,079.00	06	Rs.1,68,474.00
C.	Semiskilled	Rs. 23,897.00	05	Rs.1,19,485.00
D.	Unskilled	Rs. 21,193.00	10	Rs.2,11,930.00

II. Charges for AMC, Consumable and all others except manpower charges Amount per month

E.	Annual Maintenance Contract for the comprehensive operation and maintenance of 33/11 KV Transformer, HT/LT panels, RMU and other panels, DG Set Substation, Sewage Treatment Plant (STP), Water Treatment Plant (WTP), SCADA system, internal and external street lighting, and all electrical installations at the Indian Institute of Management Raipur. The contract shall include all works as per the scope defined in the tender documents, including electrical installations, general and operational scope, and all related services. Charges includes supply, fixing, and storage of consumables and spares as specified in Section-04, ensuring timely availability and proper maintenance of all required items for uninterrupted operation and upkeep of the systems as per the scope defined in the tender document. In addition to that total value includes service charges/ Management fee which should include: All expenditure on providing managerial /supervisory/ administrative services by all means to get the work through deployed outsource staff. The service charge also includes the cost for providing uniforms and ids to each worker including other facility charges which are mentioned in Scope of work. Other charges will also be included if not mentioned.	Rs.
----	---	-----

III. Total sum of category of I+II (Rs. / Month) Rs.

GST will be paid extra as actual at the time of billing

***Notes:**

1. The Central Govt. minimum wages act (Labor) to be applied.
2. Bidders are advised to take reference from Govt. of India, Ministry of Labor & Employment, office of Chief Labor Commissioner, New Delhi vide Notification number F. No. I/6(3)/2025-LS-II revised wages rate w.e.f 01.04.2025 (Area B, construction or maintenance or housekeeping or in building operations category) for quoting the manpower charges. The same cost per month will be filled in the bidder in above price breakup format for Sr.no.I in manpower charges (*Bidders are requested to quote the minimum rates in manpower charges (total per month per worker) as per notes above, below these rates the bid will be rejected*).
3. The contractor will have to provide one weekly off on paid basis to each worker.
4. Bonus will be paid separately to workers as per Govt. of India, amendment Act 2015.
5. Manpower may be increased or decreased in any month as per quantum of work.
6. Per month rate for Sr. No II will remain the same till the contract period including an extension period; even scope of work or area will increase. The service provider will maintain the same without claiming any extra cost. However, minimum wages will be revised as per notification of Govt. of India.

7. Any other rule or payment to be affected in contract as per Govt. of India rule/ Act, the same be included with mutual consent by both.
8. The maintenance of machinery and equipment shall be taken care of by the service provider at their own cost. Also, the cost of fuel that will be used in all such machinery and equipment shall be borne by the service provider.
9. The lowest (L-1) bidder will be decided on the basis of the total all-inclusive lump sum price quoted per month on financial bid part except GST charges.

Place :

(Signature of the bidder with seal)

END OF SECTION-5