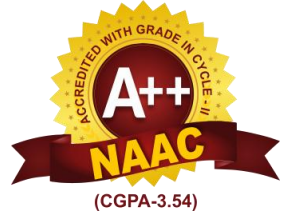




राजस्थान केन्द्रीय विश्वविद्यालय  
CENTRAL UNIVERSITY OF RAJASTHAN  
NH-8, Bandarsindri, Kishangarh-305817, Ajmer (Raj.)



**NIT No. CURAJ/R/F166/833 Date 30.05.2025**

**NOTICE INVITING E-TENDER**

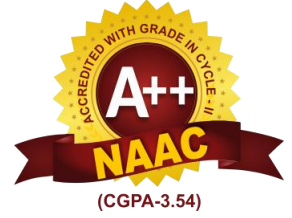
**FOR**

Comprehensive Annual Operation and Maintenance Works & Services (Day to Day) including all Civil Repair & Maintenance Works (buildings, roads, hard standings, paths, security wall, sewer lines, plumbing, drainage works, sanitary/pantry fittings/fixture, other related items etc.); All Electrical Repair & Maintenance Works (Internal & External Electrical Wiring, Fitting & Fixtures, Panels, Overhead & Underground Electric Lines, Fans, Motors & Pumps, Road Lights etc.); Operation and CAMC of Electric Sub-Stations, DG Sets, Specialized E&M Equipment, HVAC System, Passenger Lifts; Online UPS, Water Coolers, RO Plants, STP Plants, General Pest Control and Anti-Termite Services, Rainwater Harvesting System, Fire Fighting System with Wet Riser, Sprinkler & Fire Alarm, Internal Water Supply System; Operation & CAMC of Audio & Video Conferencing System, Networking items for LAN and WiFi systems like Switches, Active & Passive network components, Smart classrooms Equipments including PA Systems, Hardware and Software maintenance of Computers, Laptops, Printers, Projectors, Servers, CCTV systems, Mechanized Housekeeping Services and Garbage Collection & Disposal Services; Horticulture Maintenance and O&M of Drip Irrigation System as mentioned in the tender document at Central University of Rajasthan.

Registrar  
Central University of Rajasthan



राजस्थान केन्द्रीय विश्वविद्यालय  
CENTRAL UNIVERSITY OF RAJASTHAN  
NH-8, Bandarsindri, Kishangarh-305817, Ajmer (Raj.)



NIT No.: CURAJ/R/F.166/2025/833

Date 30.05.2025

**NOTICE INVITING E-TENDER**

The Registrar, Central University of Rajasthan, NH-08, Bandarsindri, Tehsil.- Kishangarh, Dist.- Ajmer, Rajasthan -305817 invites sealed **Tenders** from eligible approved/registered/enlisted Agencies/Companies with CPWD, MES, BRO, State PWD etc., private agencies and Public Sector Undertakings set up by the Central or State government having successfully completed works of similar nature as per eligibility conditions in two bid system for carrying out the **Comprehensive Annual Operation and Maintenance Works & Services** (Day to Day) including all Civil Repair & Maintenance Works (buildings, roads, hard standings, paths, security wall, sewer lines, plumbing, drainage works, sanitary/pantry fittings/fixture, other related items etc.); All Electrical Repair & Maintenance Works (Internal & External Electrical Wiring, Fitting & Fixtures, Panels, Overhead & Underground Electric Lines, Fans, Motors & Pumps, Road Lights etc.); Operation and CAMC of Electric Sub-Stations, DG Sets, Specialized E&M Equipment, HVAC System, Passenger Lifts; Online UPS, Water Coolers, RO Plants, STP Plants, General Pest Control and Anti-Termite Services, Rainwater Harvesting System, Fire Fighting System with Wet Riser, Sprinkler & Fire Alarm, Internal Water Supply System; Operation & CAMC of Audio & Video Conferencing System, Networking items for LAN and Wi-Fi systems like Switches, Active & Passive network components, Smart classrooms Equipments including PA Systems, Hardware and Software maintenance of Computers, Laptops, Printers, Projectors, Servers, CCTV systems, Mechanized Housekeeping Services and Garbage Collection & Disposal Services; Horticulture Maintenance and O&M of Drip Irrigation System as mentioned in the tender document at Central University of Rajasthan.

**Bids are invited** to carry out the above mentioned scope of works.

Tender Document No.	CURAJ/R/F.166/2025/833 Date 30.05.2025
Name of work	Comprehensive Annual Operation and Maintenance Works & Services (Day to Day) including; all Civil Repair & Maintenance Works (buildings, roads, hard standings, paths, security wall, sewer lines, plumbing, drainage works, sanitary/pantry fittings/fixture, other related items etc.); All Electrical Repair & Maintenance Works (Internal & External Electrical Wiring, Fitting & Fixtures, Panels, Overhead & Underground Electric Lines, Fans, Motors & Pumps, Road Lights, etc.); Operation and CAMC of Electric Sub-Stations, DG Sets, Specialized E&M equipment, HVAC System, Passenger Lifts; Online UPS , Water Coolers, RO Plants, STP Plants, General Pest Control and Anti-Termite Services, Rainwater Harvesting System, Fire Fighting System with Wet Riser, Sprinkler & Fire Alarm, Internal Water Supply System; Operation & CAMC of Audio & Video Conferencing System, Networking items for LAN and Wi-Fi systems like Switches, Active & Passive network components, Smart classrooms Equipments including PA Systems, Hardware and Software maintenance of Computers, Laptops, Printers, Projectors, Servers, CCTV systems, Mechanized Housekeeping Services and Garbage Collection & Disposal Services; Horticulture Maintenance and O&M of Drip Irrigation System as mentioned in the tender document at Central University of Rajasthan.

Estimated Cost	Rs. 9,29,09,905/- Crore (Rs. Nine Crore Twenty nine Lakh Nine Thousand Nine Hundred Five only) including GST etc.
Period of contract execution	The duration of contract will be <b>One years (01) from signing of MOU and 'Period will be extendable annually for further period of one years on same rates, terms &amp; conditions' with the approval of Competent Authority.</b>
Earnest Money Deposit	Rs. 18,59,000/-.
Document download start date & time	<b>30.05.2025 17:00 Hours.</b>
Bid submission start date & time	<b>30.05.2025 17:00 Hours.</b>
Bid submission closing date & time	<b>23.06.2025 14:00 Hours</b>
Date & time of opening of tender (Technical Bids)	<b>24.06.2025 15:00 Hours</b>
Date & Time of Opening of Financial Bids (Price Bid)	<b>To be intimated later</b>

The tender document can be downloaded from CPP Portal (URL: <https://eprocure.gov.in>), and University Website ([www.curaj.ac.in](http://www.curaj.ac.in)). "Corrigendum" if any, would appear only on the above websites.

Prospective Bidders are advised to regularly scan through e-tender portal <https://eprocure.gov.in>, as corrigendum/amendments etc., if any, will be notified on this portal only and separate advertisement will not be made for the same. The Bids shall remain valid for acceptance for a period of 90 days from the date of opening of Technical Bids.

- On the said portal (<https://eprocure.gov.in>) by clicking "Tenders by Organization", then under organization name "CURAJ", the NIT document can be searched by date/number of tender notice, name of work etc.

- Any Bidder who is having criminal record is not allowed to participate in the Bidding process.
- Any Bidder who is registered with the State Bar Council is not allowed to participate in the Bidding process.
- The Qualified Bidder shall have to register all the labourers employed in the project with the labour department. The associated contractor/ sub-contractors have also to comply accordingly.

**The tender document, complete in all respects should be submitted online on CPPP portal eprocure.gov.in.**

*The Goods and Service Tax, Turnover Tax, Excise Duty, Work Contract Tax, Or any other Tax as applicable shall be paid by the contractor himself. **The contractor shall quote his rates considering all such Taxes.***

**Minimum Eligibility Criteria:**

The interested eligible approved/registered/enlisted Agencies/Companies with CPWD, MES, BRO, State PWD etc. and Public Sector Undertakings set up by the Central or State government, meeting the following minimum qualifying criteria:

**The services shall be executed by the bidders as per the relevant code of practices of CPWD Work/Maintenance Manual, SOPs, and GCC 2023 as amended time to time.**

**Work Experience:**

Experience of having successfully completed similar works during the last 5 years ending previous day of last date of submission of tenders:

**Three similar works each costing not less than the amount equal to 60% of the estimated cost. OR**

**Two similar works each costing not less than amount equal to 80% of the estimated cost. OR**

**One similar work costing not less than amount equal to 120% of the estimated cost**

**"Similar works" shall mean "Comprehensive Annual Operation & Maintenance of buildings including Mechanized Housekeeping, Civil, E&M, horticulture, Fire Fighting, , Sanitary installations, Pest Control, Lifts, DG sets, STP, RO Plants & Purifiers, Water Coolers, ICT system and UPS etc.**

The past experience in similar nature of work should be supported by certificates issued by the client's organization.

- a. The value of executed works shall be brought to the current level by enhancing the actual value of work done at a simple rate of 7% per annum, calculated from the date of completion to previous day of last day of the submission of tenders.

**Financial Strength:**

- i) The bidder should have had average annual financial gross turnover not less than Rs. 7.63 Cr. on works during the last **three financial years**. Attested copy of audited balance sheets duly certified by chartered accountant for the last three consecutive financial years (2021-22, 2022-23, 2023-24) should be submitted along with the bid document. Year, in which no

turnover is shown, would also be considered for working out the average.

- ii) Net Worth of the company/ firm as on 31st March of previous Financial Year should be positive.
- ii) The bidder should not have incurred any loss (profit after tax should be positive) in more than two years during available last five consecutive balance sheets, duly audited and certified by the Chartered Accountant, should be submitted along with the bid document
- iii) The bidder should have **bidding capacity** equal to or more than the estimated cost of the work put to tender. The bidding capacity shall be worked out by the following formula:

$$\text{Bidding Capacity} = \{[A \times N \times 1.5] - B\}$$

Where,

A = Maximum turnover in Comprehensive Maintenance/ Services works executed in any one year during the **last seven years** taking into account the completed as well as works in progress. The value of completed works shall be brought to current costing level by enhancing at a simple rate of 7% per annum.

N = Number of years prescribed for completion of work for which bids have been invited.

B = Value of existing commitments and ongoing works to be completed during the period of completion of work for which bids have been invited.

- iv) The bidder has to submit a list of jobs in progress for **Comprehensive Annual Operation and Maintenance Works & Services** and brief details of the scope of work, names and address (postal mail) of present clients.

#### 1) Set of Contract/Tender Documents:

1. The following documents will constitute set of tender documents:
  - i) Notice Inviting e-Tender
  - ii) Guidelines for submission of tender
  - iii) Scope of work
  - iv) Bill of quantities (BOQ)
  - v) Special conditions of contract
  - vi) Memorandum (Annexure-I)
  - vii) Acceptance of tender conditions (Annexure-II)
  - viii) Annexure- III of NIT -Affidavit for correctness of Documents/ Information
  - ix) Annexure IV - Proforma of Performance of Bank Guarantee
  - x) Financial Bid - Price Bid Submission Form.
  - xi) Addendum/Corrigendum, if any-duly signed by authorized person.
2. The bidders are required to quote strictly as per terms and conditions, specifications, standards given in the tender documents and not to stipulate any deviations.
3. The bidders are advised to submit complete details with their bids as Technical Bid Evaluation will be done on the basis of documents uploaded on website by the bidders with the bids. The information should be submitted in the prescribed proforma. Bids with Incomplete /Ambiguous information will be rejected.
4. The bidders are advised in their own interest to submit their bid documents well in advance from last date/time of submission of bids so as to avoid problems which the bidders may face in submission at last moment /during rush hours.
5. The bidders to submit copies of all the documents including valid GST registration, EPF & ESIC registration, PAN No. as stipulated in the tender document.
6. If the bidder is found ineligible after opening of tenders, his tender shall become invalid.
7. Certificate of Financial Turnover: At the time of submission of tender, the bidders shall upload Affidavit / Certificate from Chartered Accountant mentioning Financial Turnover of

last 5 years and further details if required may be asked from the bidders after opening of technical bids. There is no need to upload entire voluminous balance sheet.

8. The bidders if required may submit queries, if any, through E-mail or in writing to the tender inviting authority to seek clarifications within 7 working days from the date of uploading of Tender on website. CURAJ will reply only those queries which are essentially required for submission of bids. CURAJ will not reply to the queries which are not considered fit like replies of which can be implied/found in the NIT/Tender Documents or which are not relevant or in contravention to NIT/Tender Documents, queries received after 7 working days from the date of uploading of Tender on website, request for extension of time for opening of technical bids, etc. Technical Bids are to be opened on the scheduled dates as far as possible. Requests for extension of opening of Technical Bids will not be entertained. If tender opening day is declared a Holiday, the tender will be opened on next working day.
9. The track record of the contracting agency/contractor should be clean and should not be blacklisted or not have any involvement in illegal activities or financial misappropriation / frauds etc. by any Central/State Government/Public Sector Undertaking/Govt. Institute on any account. A self-certificate on Non-Judicial Stamp Paper shall be attached in this regard.
10. The bidder should have registration with Employee Provident Fund Commissioner and Employee State Insurance Corporation. The self-attested copies of same should be enclosed with the technical bid.
11. **This contract will be valid initially for a period of One year commenced after 15 days from the date of issue of letter of commencement of work.** However the contract further may be extended for one more year or part thereof on same terms and conditions, if the contractor's performance is satisfactory. The performance would be evaluated by the University.

#### **12. Earnest Money Deposit:**

The bidder shall be required to submit the Earnest Money Deposit (EMD) for an amount of **Rs. 18,59,000/-** by way of demand draft/ Bank Guarantee/ CURAJ Account only.

The demand drafts shall be drawn in favour of "Central University of Rajasthan" payable at Bandarsindri/Kishangarh. The demand drafts for earnest money deposit must be enclosed in the envelope containing the technical bid. The EMD of the successful bidder may be a part of Performance Guarantee and for unsuccessful bidder(s), it would be returned (without interest) after award of the contract. Tenders received without EMD shall not be accepted.

Details of University account for deposition of EMD: Name: Central University of Rajasthan

Name of Bank: Bank of India

Branch Name: Central University of Rajasthan

Account No. 666110210000003

IFSC: BKID0006667

#### **13. Performance Guarantee:**

The Contractor, whose bid is accepted, will require furnishing performance guarantee of **10% (Ten Percent)** of the tendered amount within 10 days from the date of issue of LoA.

14. **Association of Agency:** For Specialized Works of Civil, Electrical & Mechanical, Housekeeping, Security, Fire - fighting System, Pest Control, ICT, R.O. etc., the bidder, if required by the University, is allowed to execute the MOU with OEM / Authorized Service Agent of OEM or Sub-Contractors as applicable. Failing which, EMD/PG will be forfeited. The agency shall also be suspended for 02 years and shall not be eligible to bid at CURAJ from the date of issue of suspension order.

15. The contractor whose bid is accepted will also be required to furnish, either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No., if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors (if any) engaged by the contractor for the said work.

16. No Running Account Bill will be paid till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board {The Building and Other Construction Workers (Regulation and Conditions of Service) Act, 1996}, wherever applicable are submitted by the Contractor/Agency to the University at the time of start of work.

17. The bidder should have his own testing equipment/machinery for proper and timely execution of works and he should submit a list of these equipment/machinery. Else, he should certify that, he would be able to manage the equipment by hiring etc. and submit the list of agency/contractors with their consent from whom he proposes to hire. The name of equipment/machinery, serial number of the equipment should be submitted.

18. Tenders submitted shall remain valid for **90 days** from the date of opening for the purpose of acceptance and award of work.

19. Intending bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of works, equipment, etc. (so far as practicable), the form and nature of the site, the means of access to the site, the accommodation and other basic facilities they may require in general, shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bids.

A tenderer shall be deemed to have full knowledge of the site, whether he inspects it or not and no extra claims / payments consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining all materials, tools & plants, water, electricity, access to site, facilities for workers and all other services required for executing the works unless otherwise specifically provided for in the contract documents at their own cost.

Submission of bid by the bidder implies that, he/she has read this notice, contract documents and all other terms & conditions therein has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the government, mentioned if any in this tender document and local conditions and other factors having a bearing on the execution of the work. No claim whatsoever on such accounts shall be entertained by the University in any circumstances after award of tender.

20. Except writing rates and amount, the tenderer should not write any condition(s) or make any changes, additions, alterations and modifications in the printed/downloaded form of tenders. If any changes, additions, alterations, modifications are detected in the submitted bid even at a later stage when contract has been awarded, the contract will be liable to be void. The decision of Registrar, Central University of Rajasthan will be final & binding on the Contractor in this regard.

21. The authorized persons of the contracting agency/contractor must put his/her signature on all the pages of the tender documents invariably in having accepted all the terms and conditions in respect of this tender work.

22. The competent authority of CURAJ does not bind itself to accept the lowest or any other tender, and reserves itself the authority to reject any or all the tenders received, without assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected. The competent authority of CURAJ reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the quoted rate.

23. The contractor shall not be permitted to bid for the works in CURaj responsible for award and execution of contracts, in which his/her near relative is posted as an officer in any capacity. He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the CURaj. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

24. **The tender will be awarded to the L-1 bidder who will be qualified in bidding process technically as well as financially. The contractor/agency must ensure to quote the rates for all the services.**

**24.1 The estimated cost put to tender (ECPT) is based on the Sub-Heads of Part-A and the L-1 bidder shall also be finalized based on below mentioned Sub Heads of Part- A only.**

**PART-A**

<b>Sub Heads.</b>	<b>Name of Works</b>
<b>SH- I (a)</b>	<b>Deployment of Maintenance Gang for day to day Civil Maintenance work at CURAJ.</b>
<b>SH- I (b)</b>	<b>Operation And Maintenance Of 750 KLD Sewerage Treatment Plant at CURAJ.</b>
<b>SH- II (a):</b>	<b>Electrical &amp; Mechanical Preventive And Day To Day Maintenance Works, Annual Operation, Repair, Maintenance And Periodic Servicing Works Of Pump Houses And Annual Electrical Works At CURAJ.</b>
<b>SH- II (b):</b>	<b>Comprehensive AMC Work of Online UPS(s) of different ratings installed in various buildings of CURaj.</b>
<b>SH- II (c):</b>	<b>Comprehensive AMC Work of 86 Nos. Water Coolers of 150 LPH capacity each, installed in various buildings of CURaj.</b>
<b>SH- II (d):</b>	<b>Comprehensive AMC Work of HVAC System (Ductable / VRV-VRF / Cassate / Split / Tower / Window Type Air Conditioners and ETAC System) installed in various buildings of CURaj.</b>
<b>SH- II (e):</b>	<b>Comprehensive Annual Operation, Repair and Maintenance of 04 Nos. 11/0.433 kV electric sub-stations and 05 numbers DG Sets at CURaj.</b>
<b>SH- II (f):</b>	<b>Comprehensive Annual Operation (in general shift), Repair and Maintenance of 14 nos. Johnson make, machine room less passenger lifts at CURaj.</b>
<b>SH – III</b>	<b>Comprehensive Annual Repair &amp; Maintenance Work of Fire Hydrant System and Fire Alarm System installed at CURaj.</b>
<b>SH – IV</b>	<b>Comprehensive Annual Maintenance Contract for RO Plants/Purifiers.</b>
<b>SH – V</b>	<b>Comprehensive Operation and Maintenance of IT Works.</b>
<b>SH – VI</b>	<b>Comprehensive Maintenance of Horticulture and operation &amp; maintenance of Drip Irrigation System.</b>
<b>SH – VII</b>	<b>Mechanized Housekeeping Services, Garbage Collection &amp; Disposal Services, and Pest Control Services at CURAJ.</b>
<b>SH-VIII</b>	<b>Hiring Manpower with fixed remuneration through outsourced agency at CURaj.</b>

**24.2 The rates for the below mentioned Sub Heads (Part- B) are also invited by the bidders but the cost of the same will not be included in the financial bid document for evaluation of the bids and the estimated cost of this part has not been considered in the estimated cost put tender(ECPT). Bidders are advised to quote their rates of Part(B) and uploaded it along with technical bid as per Schedule of Quantity Part B Page 58 -97**

**Part-B**

<b>Sub Heads</b>	<b>Name of Heads</b>
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<b>SH- IX:</b>	<b>Supply of Electrical Consumable Items at CURAJ</b>
<b>SH- X (a):</b>	<b>Supply of Civil Maintenance Consumable Items at CURAJ.</b>
<b>SH- X (b):</b>	<b>Supply of Civil Maintenance Consumable Items (DSR Items) at CURAJ.</b>
<b>SH- X(c):</b>	<b>Misc. Civil Maintenance works at CURAJ.</b>

25. Before submitting the bids, please go through complete tender document and terms & conditions on which the work will be awarded and shall be executed by the successful tenderer. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of:- The notice inviting tender, form of agreement, integrity pact, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto. Standard C.P.W.D. Form as mentioned in schedule(s) consisting of (a) various standard clauses with corrections up to the date stipulated in schedule(s) along with annexures thereto, (b) C.P.W.D. Safety Codes. No payment for the work done will be made, unless the contract is signed by the contractor.
26. Every care has been taken while preparing this document to cover all necessary information, matters, specifications, general conditions, special conditions & provisions for smooth and complete execution of works. However, in case of any omission in the tender/ contract document, the most recent version of general conditions of contract for CPWD Works, 2023, CPWD Work Manual, SOPs shall be applicable.
27. **List of Documents to be submitted with the bid documents:**
- EMD.
  - Enlistment of Bidders.
  - Bidding capacity document.
  - Memorandum (Annexure-I) of NIT.
  - Letter of Acceptance of Tender Conditions unconditional (Annexure II) of NIT on letter head of the bidder.
  - Annexure-III of NIT –Affidavit for correctness of Documents/Information.
  - Details of Work Experience Certificates
  - Details of Similar Works
  - Financial Details
  - Documents regarding Net Worth of the Company/Firm.
  - Power of Attorney of the person authorized for signing/submitting the tender.
  - Valid GST registration, EPF registration, ESIC registration, PAN No.
  - All pages of the entire Corrigendum (if any) duly signed by the authorized person.
  - Integrity pact
  - Registration Details of the contractor in the GST Act in the State at the location of the Project.

**NOTE: All the uploaded documents should be in readable, printable and legible form failing which the Bids shall not be considered for evaluation.**

28. Central University of Rajasthan reserves the right to reject any or all tenders or cancel/withdraw the invitation for bid without assigning any reasons what so ever thereof. CURAJ does not bind itself to accept lowest tender. The CURAJ reserves the right to award the work to a single party or to split the work amongst two parties as deemed necessary without assigning any reason thereof. The contractor is bound to accept the portion of work as offered by CURAJ after split up at the quoted/negotiated rates. No claim of the contractor whatsoever shall be entertained by CURAJ on this account.

29. Canvassing in connection with the tender is strictly prohibited, and such canvassed tenders submitted by the contractor will be liable to be rejected and his earnest money shall be absolutely forfeited.
30. In case of any query, please contact Estate Section, on contact No.01463257507 during the Office hours.

**Registrar**  
**Central University of Rajasthan**

**Memorandum**

S.No.	Description	Values/ Description to be Applicable for Relevant Clause(s)
1	Name of Work	Tender for Comprehensive Annual Operation and Maintenance Works & Services (Day to Day) including all Civil Repair & Maintenance Works (buildings, roads, hard standings, paths, security wall, sewer lines, plumbing, drainage works, sanitary/pantry fittings/fixture, other related items etc.); All Electrical Repair & Maintenance Works (Internal & External Electrical Wiring, Fitting & Fixtures, Panels, Overhead & Underground Electric Lines, Fans, Motors & Pumps, Road Lights, etc.); Operation and CAMC of Electric Sub-Stations, DG Sets, Specialized E&M equipment, HVAC System, Passenger Lifts; Online UPS , Water Coolers, RO Plants, STP Plants, General Pest Control and Anti-Termite Services, Rainwater Harvesting System, Fire Fighting System with Wet Riser, Sprinkler & Fire Alarm, Internal Water Supply System; ICT Services (CCTV cameras, LAN System, Wi-Fi System, EPBAX System, Public Address System, Operation & CAMC of Audio & Video Conferencing System, Networking, Switches, Active & Passive Network components, Computer Peripherals etc.); Mechanized Housekeeping Services and Garbage Collection & Disposal Services; Horticulture Maintenance and O&M of Drip Irrigation System as mentioned in the tender document at Central University of Rajasthan.
2	Earnest Money Deposit	The bidder shall be required to submit the Earnest Money Deposit (EMD) for an amount of Rs. <b>18.59- lakhs</b> by way of demand draft/ Bank Guarantee/ CURAJ Account only.
3	<b>Period of execution contract</b>	The duration of contract will be one year from signing of MOU and <b>'Period will be extendable for further period of one year on same rates, terms &amp; conditions' with the approval of Competent Authority.</b>
4	Mobilization Advance	Nil
5	Validity of Bid	90 days
6	<b>Performance Bank Guarantee</b>	<b>10% (Ten Percent Only) of contract value within 10 days from the date of award of LoA.</b>
7	General Conditions of Contract	Govt. of India Guideline for respective services.

**ACCEPTANCE OF TENDER CONDITIONS**

From: (On the letter head of the company by the authorized officer having power of attorney)

To

The Registrar  
Central University of Rajasthan, NH-8, Bandarsindri,  
Teh.- Kishangarh, Ajmer, Rajasthan - 305817

**Subject:** Tender for Comprehensive Annual Operation and Maintenance Works & Services (Day to Day) including all Civil Repair & Maintenance Works (buildings, roads, hard standings, paths, security wall, sewer lines, plumbing, drainage works, sanitary/pantry fittings/fixture, other related items etc.); All Electrical Repair & Maintenance Works (Internal & External Electrical Wiring, Fitting & Fixtures, Panels, Overhead & Underground Electric Lines, Fans, Motors & Pumps, Road Lights, etc.); Operation and CAMC of Electric Sub-Stations, DG Sets, Specialized E&M equipment, HVAC System, Passenger Lifts; Online UPS , Water Coolers, RO Plants, STP Plants, General Pest Control and Anti-Termite Services, Rainwater Harvesting System, Fire Fighting System with Wet Riser, Sprinkler & Fire Alarm, Internal Water Supply System; ICT Services (CCTV cameras, LAN System, Wi-Fi System, EPBAX System, Public Address System, Operation & CAMC of Audio & Video Conferencing System, Networking, Switches, Active & Passive Network components, Computer Peripherals etc.); Mechanized Housekeeping Services and Garbage Collection & Disposal Services; Horticulture Maintenance and O&M of Drip Irrigation System as mentioned in the tender document at Central University of Rajasthan.

Sir,

- i) This has reference to above referred tender. I/We are pleased to submit our tender for the above work and I/We hereby unconditionally accept the tender conditions and tender documents in its entirety for the above work.
- ii) I/we are eligible to submit the tender for the subject tender and I/We are in possession of all the documents required.
- iii) I/We have viewed and read the terms and conditions of this GCC carefully. I/We have downloaded the following documents forming part of the tender document:
  - a) Notice Inviting e-Tender
  - b) Guidelines for submission of tender
  - c) Scope of work
  - d) Bill of quantities
  - e) Special conditions of contract
  - f) Memorandum (Annexure-I)
  - g) Acceptance of tender conditions (Annexure-II)
  - h) Annexure-III of NIT- Affidavit for correctness of Documents/ Information.
  - i) Annexure IV - Proforma of Performance of Bank Guarantee
  - j) Financial Bid - Price Bid Submission Form
  - k) Addendum/Corrigendum, if any-duly signed by authorized person
- iv) Should this tender be accepted, I/We agree to abide by and fulfill all terms and conditions referred to above and as contained in tender documents elsewhere and in default thereof, to forfeit and pay CURAJ, or its successors or its authorized nominees such sums of money as are stipulated in the notice inviting tenders and tender documents.
- v) If I/we fail to commence the work after the date of issue of Letter of Award and/or I/we fail

to sign the agreement as per Clauses of Contract and/or I/we fail to submit performance guarantee as per of Clauses of Contract, I/we agree that CURAJ shall, without prejudice to any other right or remedy, be at liberty to cancel the Letter of Award and to forfeit the said earnest money as specified above.

Yours faithfully,

(Signature of the bidder with rubber stamp)

**AFFIDAVIT**

**(To be submitted in original by bidder on non-judicial stamp paper of Rs. 100/- (Rupees Hundred only) duly attested by Notary Public)**

**(To be submitted in Envelope-I)**

Affidavit of Mr. ....s/o.....I, the deponent above named do hereby solemnly affirm and declare as under:

1. That I am the Proprietor/Authorized signatory of M/s. .... Having its Head Office/Regd. Office at .....
2. That the information / documents / Experience certificates submitted by ..... along with the tender for ..... (Name of Work) ..... to Central University of Rajasthan are genuine & true and nothing has been concealed.
3. I shall have no objection in case CURAJ verifies them from issuing authority (ies). I shall also have no objection in providing the original copy of the document(s), in case Central University of Rajasthan demands so for verification.
4. I hereby confirm that in case, any document, information & / or certificate submitted by me found to be incorrect /false/ fabricated, CURAJ at its discretion may disqualify/ reject/ terminate the bid/contract and forfeit All dues.
5. I shall have no objection in case CURAJ verifies any or all Bank Guarantee(s) under any of the clause(s) of Contract including those issued towards Performance Guarantee from the Zonal Branch
6. /office issuing Bank and I/We shall have no right or claim on my submitted PBG before Central University of Rajasthan receives said verification.
7. That the Bank Guarantee issued against the PBG issued by (name and address of the Bank) is genuine and if found at any stage to be incorrect / false / fabricated, Central University of Rajasthan shall reject my bid, cancel pre-qualification and debar me from participating in any future tender for three years.
8. I hereby confirm that our firm/company is not blacklisted/barred/banned from tendering by the Government / PSUs. If this information is found incorrect, CURAJ at its discretion may disqualify / reject/ terminate the bid/contract.
9. The person who has signed the tender documents is our authorized representative. The Company is responsible for all of his acts and omissions in the tender.

I, ....., the Proprietor / Authorized signatory of M/s..... do hereby confirm that the contents of the above Affidavit are true to my knowledge and nothing has been concealed there from and that no part of it is false.

Verified at .....this.....day of .....

DEPONENT ATTESTED BY (NOTARY PUBLIC)

**PROFORMA OF PERFORMANCE BANK GUARANTEE**

(Judicial Stamp paper of appropriate value as per stamp Act-of respective state)

To,

The Registrar  
Central University of Rajasthan,

Whereas Central University of Rajasthan situated at NH-8, Bandarsindri, Kishangarh, Ajmer (Rajasthan) - 305817 (hereinafter called "CURAJ") which expression shall include its successors and assigns) having awarded a work order/contract / supply order No. dated..... (hereinafter called the contract) to M/s. .... (hereinafter called the contractor / supplier) at a total price of Rs..... subject to the terms and conditions contained in the contract.

WHEREAS, the terms and conditions of the contract require the contractor to furnish a bank guarantee for Rs..... (Rupees.....) being 10% of the total value of the contract for proper execution and due fulfillment of the terms and conditions contained in the contract.

We, the Bank, (hereinafter called the "Bank") do hereby unconditionally and inescapably undertake to pay to CURAJ, immediately on demand in writing and without protest/or demur all moneys payable by the contractor/supplier to CURAJ in connection with the execution/supply of and performance of the works/equipment, inclusive of any loss, damages, charges, expenses and costs caused to or suffered by or which would be caused to or suffered by CURAJ by reason of any breach by the contractor/supplier of any of the terms and conditions contained in the contract as specified in the notice of demand made by CURAJ to the bank. Any such demand made by CURAJ on the bank shall be conclusive evidence of the amount due and payable by the bank under this guarantee. However, the Bank's liability under this guarantee, shall be limited to Rs.....in the aggregate and the bank hereby agrees to the following terms and conditions:-

- (i) This guarantee shall be a continuing guarantee and inescapable for all claims of CURAJ as specified above and shall be valid during the period specified for the performance of the contract.
- (ii) We, the said bank further agree with CURAJ that CURAJ shall have the fullest liberty without our consent and without affecting in any manner our obligations and liabilities hereunder to vary any of the terms and conditions of the said contract or to extend time for performance of contract by the contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by CURAJ against the contractor/supplier under the contract and forbear or enforce any of the terms and conditions relating to the said contract and we shall not be relieved from our liability by reason of any such variations or extension being granted to the contractor or for any forbearance, act or omission on the part of CURAJ or any indulgence by CURAJ to the contractor or by any such matter or thing whatsoever, which under the law relating to the sureties would, but for this provision, have effect of so relieving us.
- (iii) This guarantee / undertaking shall be in addition to any other guarantee or security whatsoever CURAJ may now or at any time have in relation to the performance of the works/equipment and the company shall have full recourse to or enforce this security in performance to any other security or guarantee which the CURAJ may have or obtained and there shall be no forbearance on the part of the company in enforcing or requiring enforcement of any other security which shall have the effect of releasing the Bank from its full liability. It shall not be necessary for CURAJ to proceed against the said

contractor/supplier before proceeding against the Bank.

- (iv) This guarantee/ undertaking shall not be determined or affected by the liquidation or winding up, dissolution or change of constitution or insolvency of the supplier/ contractor, but shall in all respects and for all purposes be binding and operative until payment of all moneys payable to
- (v) CURAJ in terms thereof are paid by the Bank.
- (vi) The Bank hereby waives all rights at any time inconsistent with the terms of this Guarantee and the obligations of the bank in terms hereof, shall not be otherwise effected or suspended by reasons of any dispute or disputes having been raised by the supplier/contractor (whether or not pending before any Arbitrator, Tribunal or Court) or any denial of liability by the supplier/contractor stopping or preventing or purporting to stop or prevent any payment by the Bank to CURAJ in terms hereof.

We, the said Bank, lastly undertake not to revoke this guarantee during its currency except with the previous consent of CURAJ in writing upon expiry of which, we shall be relieved from all liabilities under this guarantee thereafter.

Signed this ..... day of ..... at.....

For and on behalf of Bank

WITNESS.

I. ....

2. ....

Note: Validity- Bank Guarantee shall remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the Contractor.



## **SPECIAL CONDITIONS OF CONTRACT (SCC)**

1. The contract means the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority on behalf of the tenderer and the Central University of Rajasthan together with the documents referred to therein including these conditions and instructions issued from time to time. All these documents taken together shall be deemed to form one contract and shall be complementary to one another. In case of difference, contradiction, discrepancy, dispute with regard to General Conditions of Contract, the provision made in the Special Conditions of Contract (SCC) will prevail.
2. The duration of contract will be 01 years from the date of start of work extendable further period of one year on the same rates, terms and conditions at the sole discretion of the CURAJ if it is fully satisfied with the performance of the agency and if it is required.
3. The tenderer shall visit the site and shall satisfy him-self as to conditions under which the work is to be performed. He shall also check and ascertain the condition of the complete Housekeeping, Horticulture, Sanitary & Electrical Installations, Operation of Lifts, AMC of Rodent & Pest Control, Refilling of Fire extinguishers & their defective parts and the locations of any existing structures or equipment or any other situation, which may affect the work. No extra claim for ignorance or on the ground of insufficient description will be allowed at a later date.
4. The agency shall be responsible to collect the feedback forms from each allottee every month (specimen of feedback form placed at Technical specification and scope of work). Based on the observations, if any, recorded by the allottee, necessary action shall have to be initiated by the agency and defects/deficiencies shall have to be attended immediately and is to be brought to the notice of the Central University of Rajasthan.
5. No extra payment shall be made by the Central University of Rajasthan if tenderer chooses to deploy more workforces to maintain the service quality than mentioned in the tender documents. If any short supply of any category of worker then recovery per worker per day shall be deducted from the RA bills as specified in the scope of work.

### **6. MINIMUM WAGES**

It shall be the responsibility of tenderer to pay minimum wages to the workers as applicable/ revised from time to time during the period of the contract.

### **7. BIOMETRIC ATTENDANCE**

The tenderer shall install a Biometric Attendance Machine for his workforce and attendance record to be given with the monthly Running bill. List of staff being posted to be given with their experience and credentials.

### **8. Timeline for attending the defects and penalty for the delay;**

The tenderer has to attend any breakdown in any of the equipments within definite timeline so that office work does not suffer for non-availability of these services. He has to ensure that all minor breakdowns/complaints are set right within 4 hours of its occurrence on the same day from the time it is reported /informed to the tenderer through complaint monitoring system or by telephone (Extension) or by verbal complaints by the Central University of Rajasthan. A simple telephonic call by clients(CURAJ) officers also will always be treated as a complaint for this purpose. From the time of reporting, all the defects have to be removed within 48 hours of its occurrence. The tenderer will keep all necessary spare parts of these

equipments ready in the stock. If the tenderer fails to deliver the services within the time, Liquidated Damages will be charged @ 0.5% per week or part of the week of delayed period not exceeding 5% of the contract value.

9. The rates shall be quoted in Indian rupees, both in figures and in words. In case of discrepancy in the two, price quoted in words will be taken as valid.

10. The service charges quoted by bidders shall be firm and fixed throughout currency the coverage of the contract.

11. The tenderer shall be responsible for the compliances of the following statutory requirements, which are applicable at present:

- i) EPF - 12% of total wage for employer- employee share and may be released as ECR, challan submitted to the contractor. If contractor fails to submit proof of ECR, same shall be recovered from Running Bills.
- ii) EPF Admn ./ Service charges
- iii) ESIC Charges 3.25 %
- iv) Bonus 8.33% of monthly wages.
- v) Weekly off- 4 days per month for the worker deployed for 7 days a week by the contractor
- vi) GST@ 18% or as applicable.

Tenderer is fully responsible for compliances of above statutory requirements, as revised time to time if revised by concern authorities.

The tenderer shall give the liveries to all workers at his own cost as per following details:-  
Uniform of approved colour: 2 Set of stitched pant and full sleeve shirt every year.

One Pair Leather shoes with socks -Once in a year Woolen sweater/Jackets - Once in a year  
Raincoat to Horticulture staffs - Once in a year colour/uniform as approved by the CURAJ.

The above shall be complied by the agency within 15 days from the date of start of work, without any fail. Tenderer is fully responsible for any consequences if arise any. No extra claim, whatsoever, in this regard, shall be entertained.

## **SCOPE OF WORK**

Comprehensive Annual Operation and Maintenance Works & Services (Day to Day) including all Civil Repair & Maintenance Works (buildings, roads, hard standings, paths, security wall, sewer lines, plumbing, drainage works, sanitary/pantry fittings/fixture, other related items etc.); All Electrical Repair & Maintenance Works (Internal & External Electrical Wiring, Fitting & Fixtures, Panels, Overhead & Underground Electric Lines, Fans, Motors & Pumps, Road Lights, etc.); Operation and CAMC of Electric Sub-Stations, DG Sets, Specialized E&M equipment, HVAC System, Passenger Lifts; Online UPS , Water Coolers, RO Plants, STP Plants, General Pest Control and Anti-Termite Services, Rainwater Harvesting System, Fire Fighting System with Wet Riser, Sprinkler & Fire Alarm, Internal Water Supply System; Operation & CAMC of Audio & Video Conferencing System, Networking items for LAN and Wi-Fi systems like Switches, Active & Passive network components, Smart classrooms Equipments including PA Systems, Hardware and Software maintenance of Computers, Laptops, Printers, Projectors, Servers, CCTV systems, Mechanized Housekeeping Services and Garbage Collection & Disposal Services; Horticulture Maintenance and O&M of Drip Irrigation System as mentioned in the tender document at Central University of Rajasthan.

The details of the Buildings are as under:-

<b>S. No.</b>	<b>Details of Buildings</b>	<b>Build up area in sqm.</b>
1.	Guest House (G + 2)	7,951.92
2.	Academic Building 4A4 (G+2)	7,923.18
3.	Administrative Building (G+2)	6,469.64
4.	Hostel Boys (G+3) (8A-2)	8,916.06
5.	Hostel Boys (G+3) (8A-1)	8,723.05
6.	V.C. Residence (G)	706.39
7.	Academic Building 4A3 (G+3)	10,993.31
8.	Hostel Boys 8A-6 (G+3)	8,655.87
9.	Academic Building 4A-5 (G+2)	7,923.18
10.	Academic Building 4A-6 (G+3)	10,994.35
11.	Estate Building (G+1)	3,278.39
12.	Dining Block (9.2) (G)	1,685.77
13.	Utility Building (19.1) (G)	1,111.76
14.	Utility Building (19.2) (G)	1,258.19
15.	ESS Block (20.1) (G)	978.20
16.	ESS Block (20.7) (G)	978.20
17.	Faculty Housing Type-B Block-12B-9 (G + 2)	1,429.64
18.	Faculty Housing Type-B Block-12B-10 (G + 2)	1,429.64
19.	Faculty Housing Type-B Block-12B-11 (G + 2)	1,429.64
20.	Faculty Housing Type-B Block-12B-12 (G + 2)	1,429.64
21.	Faculty Housing Type-C Block-12C-2 (G + 2)	898.28
22.	Faculty Housing Type-C Block-12C-4 (G + 2)	898.28
23.	Faculty Housing Type-D Block-12D-1 (G + 3)	1,942.92
24.	Faculty Housing Type-D Block-12D-2 (G + 3)	1,942.92
25.	Girls hostel No.1,2,3,4	23,400.00
26.	Semi- permanent Structure SP-1,2,3 & 4	11,700.00
27.	Health Centre	340.00
28.	OBC Girls Hostel (G +1)	2,660.00
29.	16 Nos. Type -II and 36-Nos. Type-III Residential Staff Quarters	4,000.00
30.	Central Instrumentation Laboratory Building	1,560.00
31.	School of Education and Dept. of Yoga Science Building	1,822.98
32.	Academic Building 4A-2	10,515.00

Details of Services covered in this contract:-

- a) Civil Maintenance Services i/c internal & external maintenance of buildings such as internal / external plaster repair, tile repair of floor / toilet / walls, Toilets, roads, Tiled Path, drains works, Internal / External Water Supply Pipelines, Internal / External Sewerage Pipeline, Boundary wall, Ornamental Stone Walls etc.
  - b) E & M Services including Internal & External Electrical Wiring, Fitting & Fixtures, HT / LT Panels, Electric Rooms, Overhead & Underground Electric Lines, Fans, Road Lights etc.
  - c) Comprehensive Annual O & M of four numbers 11/0.433 kV Electric Sub-stations.
  - d) Comprehensive Annual O & M of five numbers DG Sets.
  - e) CAMC of 40 numbers online UPS .
  - f) CAMC of 86 numbers Water Coolers.
  - g) CAMC of HVAC System (Ductable / VRV-VRF / Cassate / Split / Tower / Window Type Air Conditioners and ETAC System).
  - h) CAMC of ETAC System.
  - i) Comprehensive Annual O & M of 14 numbers Passenger Lifts.
  - j) CAMC of Fire Hydrant Systems.
  - k) Fire Fighting Services.
  - l) Horticulture, Mechanized Housekeeping, Pest Control etc.
  - m) Operation & CAMC of Audio & Video Conferencing System, Networking items for LAN and Wi-Fi systems like Switches, Active & Passive network components, Smart classrooms Equipments including PA Systems, Hardware and Software maintenance of Computers, Laptops, Printers, Projectors, Servers, CCTV systems.
  - n) Comprehensive Annual O & M of Water Supply Systems i/c Pumps, Sewerage System/Network Pipeline.
  - o) CAMC of RO Plants.
  - p) 750 KLD Sewerage Treatment Plant. (Bio Remediation Based Technology)
  - q) Horticulture Maintenance and O & M of Drip Irrigation System,
  - r) Mechanized Housekeeping, Garbage Collection and Disposal, Pest Control and Anti Termite Treatment etc.
  - s) CAMC works of RO Plants and Purifiers.
1. The tenderer will deploy a Facility Manager (FM) at site in general shift on all working and nonworking days, who will coordinate all the above services to be provided at CURAJ premises at no extra cost. He will be responsible to see that there is no deficiency in the work, will take & implement all instructions from the Central University of Rajasthan. The FM must be **Graduate** with minimum **5 years of experience** in the such comprehensive maintenance contracts. In case FM is found absent from his duty, a penalty @ Rs. 2000 per day shall be made.
  2. Work shall be carried out as per CPWD specifications wherever applicable. Safety procedure as indicated in CPWD specification of Civil/Electrical work Water Supply System, STP Work/HVAC work and DG Sets & Sub Station work, Lifts Work/Fire Fighting/ Fire Alarm Work/I3MS/ Wet Riser/ Sprinkler & IT & AV Works and IPPBX etc. should be strictly followed.
  3. The tenderer shall take all precautions for safety of the workmen. If any accident / miss-happening occur, the CURAJ shall not be responsible for the same. If any compensation is to be paid to the victim, the tenderer shall pay the same and no claim in this account shall be entertained by the CURAJ.
  4. The tenderer shall furnish name & contact number of the persons, who should be contacted during emergency.
  5. All the malba or rubbish, sweeping waste, construction waste, complete horticulture waste, household waste of the entire campus, or any other waste collected/ obtained from dismantling or otherwise during the maintenance and execution of the work have to be collected at the centralized place and to be disposed of outside the campus to a place to be arranged by the tenderer. Nothing extra shall be paid for transportation and arrangement of disposal place except otherwise mentioned in BOQ item, if any. Further, all the malba or rubbish, sweeping waste, construction waste, horticulture waste, house hold waste, or any other waste collected/ obtained

from dismantling shall be brought down through the staircase and shall not be thrown to the ground directly.

6. All the dismantled materials such as water tapes, plumbing / carpentry fittings / fixtures, gate valves and any other costly materials shall be the property of Central University of Rajasthan only. Contractor is advised to deposit the same at the Central Store of the University.
7. No temporary huts/ structures will be constructed by the tenderer at the site of work or at any Government land. Such structures, if any found at the site or at Government land will be demolished and removed without any notice. The tenderer will not pitch up tents for labourers, materials and his stores etc.
8. The tenderer shall prepare a Sub Head wise "fortnightly/Monthly" duty chart with name and duty hours stated therein. The same shall be submitted to the concerned officials at least seven days in advance.
9. In case of any damage to any equipment due to negligence of the tenderer's staff, the same will have to be made good by the tenderer at his cost. Failure to which recovery of the cost will be made from the tenderer's bill as decided by the Central University of Rajasthan.
10. Regular preventive maintenance for all services shall be carried out by deputing exclusive preventive maintenance teams. Payment on this account shall be inclusive in quoted rates and nothing extra shall be paid on this account.
11. The tenderer shall replace the staff immediately, in the event of misconduct by him/her.
12. The tenderer is advised to visit the site of work before quoting the rates, in order to ascertain the quantum and location of works.
13. For the purpose of categorization of staff as highly skilled, skilled, semiskilled and unskilled, the sweepers/ Beldar/ Helper shall be taken as unskilled, plumber, carpenter, wireman, electrician, shall be taken as skilled and IT Engineer, Supervisor, shall be taken as highly skilled. They should wear different dresses as per University office order No. 170 dated 13.04.2022, if applicable. Identity cards duly signed by tenderer or his representative shall be issued to each personnel by the tenderer.
14. It shall be entirely the responsibility of the tenderer to ensure that no unlawful acts done by his persons while on duty. In case any theft/loss of departmental property take place due to the negligence or carelessness of his personnel, the tenderer will be held responsible and shall make good of the same.
15. Tenderer should have established the complaint cell within the University campus. University will provide the space for the complaint cell free of cost. The Tenderer must has to ensure for providing services of Enquiry Clerk (minimum qualification graduate) having knowledge of computer (Shift-One 6.00 AM to 2.00 PM) (Shift-Two 2.00 PM to 10.00 PM) and (Shift-Three 10.00 PM to 6.00 AM) (computer & peripherals including operating staff and necessary consumable/software shall be arranged by the Tenderer at his own cost). Agency shall arrange the Computer system, telephone/Mobile & internet/broadband connection as required with furniture. Payment of mobile/internet bills for the same shall be borne by the agency itself. Followings jobs are required to be performed to the entire satisfaction and as per direction of the University:-
  - a) Download/Register the complaints received on daily basis and assigning the work to the workers of respective trade as per the benchmark time defined.
  - b) Recording the complaints received at service center in person or through telephone and logging these complaints at Call Centre and assigning the work to the workers of respective trade.
  - c) Submitting the status of attending of the complaints on daily basis to the University officials.
  - d) Preparing the abstract of attended / unattended complaints on daily, weekly and monthly basis and submitting the same to the concerned Official in-charge` of the service center or his authorized representative.
  - e) Any other miscellaneous works connected with above as per direction of the University.
  - f) Supervising the staff and work completely.
16. **Terms of payment and other facilities for workers:-**
  - i) The tenderer is bound to disburse the salary/ wages to his workers up to 7<sup>th</sup> of each

month, positively, by cheque or IMPS/NEFT/RTGS as feasible and has to furnish a certificate to this effect on prescribed format. In the absence of this certificate, no payment shall be made / released.

- ii) The tenderer shall be responsible for payment of compensation to the workers, if required, and keep the CURAJ informed.
- iii) The tenderer shall take all precaution for safety of the workmen. If any accident / miss-happening occur, the CURAJ shall not be responsible for the same. Tenderer is required to take insurance cover under the Workman Compensation Act, 1923 as amended from time to time from an approved insurance company within 10 days of signing of MOU and pay premium charges thereof.

**17. Terms of Payment for the contractor**

The healthiness of the complete system shall be evaluated on the method detailed in additional terms and conditions of individual Sub Head. Production of Bill on Electronic measurement book along with re-writeable CD and Bill in triplicate by 5<sup>th</sup> Day of the Every Month. Payments to the tenderer shall be made, 'on monthly basis' after production of following proof:

- a) Documentary proof of disbursement of wages to the workers. The copy of wage register in the format shall be produced with RIA or final bill.
- b) Tenderer is advised to strictly adhere to prevailing laws.
- c) Challans in token of depositing EPF, ESIC with the concerned Authority.

**18. Inventory:**

The tenderer shall take over the detailed inventory from the CURAJ, which will be maintained by SITE IN CHARGE at their Site Office against each sub head mentioned in Schedule of work and, any short comings noticed at the time of taking over shall be brought out specifically to the notice of CURAJ. Rectification cost, if any shall be approved by CURAJ failing which it shall be presumed that the site has been taken over in perfect working order. On completion of work against each sub head mentioned in Schedule of work shall be handed over to Site-in Charge or any authorized representative. In case any short fall or damage to the installation is noticed, the tenderer shall make good of the same with same make equipment or as directed by the CURAJ, failing to do so, the recovery shall be affected from any payment due to the tenderer. The decision of the CURAJ shall be final and binding. Unserviceable items, if any shall also brought in the notice of CURAJ for further necessary action.



**19. Consumables:**

- i) Consumables: All consumables required for day to day, preventive maintenance & Comprehensive maintenance shall be arranged by the tenderer as per BOQ.
- ii) Cost of the tools & tackles required for workers for attending complaints shall be borne by the tenderer. No Claim of such tools & tackles shall be paid to him.
- iii) The tenderer should maintain a stock register for material purchased and consumed for maintenance work. This register should clearly indicate date wise receipt of material and material consumed on work. The tenderer should also maintain a register for un-serviceable material received during repair work, which shall be the property of the Central University of Rajasthan.

- 20. All tools & tackles and machineries whichever is required for maintenance work shall be provided by the tenderer and nothing extra shall be payable on this account by the Central University of Rajasthan.
- 21. Working hours would be normally 8 hours per day during working days and ½ hour lunch break (six days a week). However, the concerned person may have to work beyond office hours, in case of the exigencies of work and may be called weekends and other Gazetted holidays, if required.
- 22. The contractor will assist each new manpower, in the opening of EPF/ESI account and bank account. The contractor has to maintain EPF account with the Regional Provident Fund Commission, in respect of each deployed personnel. The contractor will be responsible for any queries from the Regional/Assistant Labor Commissioner or other such authorities, on issues related to EPF/ESI etc.
- 23. Contractor will ensure of providing ESI cards (if applicable) to all the workmen within three months of commencement of work under this contract to enable them to avail of the entitled medical facilities.
- 24. The Contractor will ensure that all payments will be made through e-transfer only as per the notifications issued by Regional Labor Commissioner from time to time. Payment in cash is totally prohibited. A certificate that the remuneration has been paid in accordance with the said notification should invariably be furnished by the contractor every month along with the monthly bill to the University.
- 25. Disputes, grievances, if any, between the contractor and personnel deployed by her/him have to be settled by the contractor only.
- 26. In case of death or mishap leading to any injury or disability whatsoever, occurred during discharging the duty, the compensation, legal proceeding or any other liability solely rests with the contractor.
- 27. In case, the contractor fails to discharge her/his primary liabilities, the Security Deposit /other dues and the amounts due against running bills under the contract will be utilized by the University for meeting such liability.
- 28. The contractor or its representative will remain available for contacting at all the times via Mobile/E-Mail/ Fax/ Special Messenger and respond to the University on the same day.
- 29. The contractor will not assign, transfer, pledge or sub contract the work/performance of services without prior written consent of the University.
- 30. In case, the contractor does not execute the work as per the terms and conditions of the work order /Agreement, the same will be got executed by some other contractor/agency and the expenditure, 'if any', incurred in this regard will be recovered from the Contractor's Security Deposit/Pending bills or otherwise.

**Sub Head-I (a) & (b) : Additional Terms & Conditions for deployment of Maintenance Gang for day to day Civil Maintenance Works and O & M of 750 KLD Sewerage Treatment Plant at CURAJ.**

Day to Day Civil Repair and Maintenance Works as specified in Schedule of Work and as directed by the Site In-Charge or his representative.

**1. Scope of Work:-**

- (i) The work involves day to day civil repair and maintenance works of all the Buildings premises including minor civil maintenance and repair work, earth work, dismantle work of tile/concrete / masonry/ plaster, concrete work, carpentry work, patch painting, repairing, patch plaster, tiling of floors, walls and toilets, flooring of marble, granite, kota stone, tile grouting, aluminum / UPVC doors repair and maintenance work such as replacement of broken glass, glazing, façade galazing, toughened glass/door, floor machine, aluminium snap beading, rubber etc. and all other civil & interior works (Fittings and Fixtures installed in aluminium / flush doors at CURAJ Campus) and shall be done within the quoted rates.
- (ii) Maintenance of water tanks including cleaning, disinfection etc., water pipe lines, drainage lines, toilet W/C Indian and European on same make and washbasin, urinals, W/C, Choke up of flushing, replacement/ alteration of components, rectifications of leakages of pipes, fittings / fixtures and repair of entire sewage system of the buildings, repair and maintenance of internal / external water supply pipelines inclusive all etc.
- (iii) The tenderer shall clean the all types of water tanks (O/H & U/G), rain water lines, sewerage lines, manholes etc. of the University premises at every six months duration and record of the same shall also be maintained and checked by the Site in-Charge. The tenderer shall record the date of cleaning and next date due for cleaning on all the terrace tanks, underground sump and overhead tanks with paint within 2 days of the completion of the cleaning operation. The cost of the same is inclusive in the head of civil maintenance and nothing extra shall be paid to the contractor on account of this work.
- (iv) Checking all the area for damaged false ceiling, repairing and re-fixing of damaged false ceiling in all respect according to the specification, floor carpet tiles, glazing, wooden doors, Aluminum doors & window and re-fix/replace/repair wherever necessary.
- (v) Check the glass door & its functional aspects i.e. Floor springs, handle etc. and re-fix/repair/replace where ever necessary.
- (vi) Check all the water tanks and to provide broken tank covers, float valves wherever necessary.
- (vii) Maintenance of indoor and outdoor water supply pipeline inclusive replacements of valves, coupler / socket, union, FABT, MABT, and Elbow etc. wherever required.
- (viii) Removal of any debris fallen trees or any part of structure there which is unwanted inside the fencing of premises/ repairs thereof.
- (ix) Operation and Maintenance of 750 KLD Sewerage Treatment Plant (Bio remediation based technology) by 24x7 hrs. Inclusive consumables required (NSDL liquid) etc. and nothing extra will be provided against this.

**2. Staff deployment and their qualifications:** The tenderer shall depute qualified and experienced staff for attending the day to day maintenance work; nothing extra shall be paid for the same.

S. No.	Designation	Experience	Tentative Nos.
1	Site Supervisor	Five Year	01
2	Plumber	Three Year	02
3	Carpenter	Three Year	02
4	Mason	Three Year	02



5	STP Operator	Three Year	03
6	Sewer Man	Three Year	01
7	Helper for Plumber, Mason, Painter and carpenter	One year in the same field	08
8	Painter		1
9	Welder		As per requirement

3. The prescribed complaint register and workers diary shall be provided by the tenderer and these shall be neatly maintained by tenderer. All complaints are to be attended promptly and the complaints not attended in the same day shall be reported to Site In Charge and carried forward to next day till these are not attended. The complaint register should be got checked regularly by the Site In Charge.

4. After the expiry of the contract, the tenderer shall have to hand over complete installation to the University in proper working order.

5. The contractor shall deploy sufficient manpower for carrying out the day to maintenance work in the University. All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of the Central University of Rajasthan failing which the work shall be got done at the risk and cost of the tenderer and penalty shall be imposed Rs. 1000/- per complaint per day.

5. The maintenance works shall be carried out as per CPWD specifications 2019 Vol-1 & Vol-2. However, in case of any omission in the tender/ contract document, the most recent version of general conditions of contract for CPWD Works, 2024 shall be the reference manual.

**Sub Head-II (a): Electrical & Mechanical Preventive And Day To Day Maintenance Works, Annual Operation, Repair, Maintenance And Periodic Servicing Works Of Pump Houses And Annual Electrical Works At CURAJ.**

This comprises the following:

1. Annual preventive and day to day maintenance, to upkeep all the electrical internal & external installations, fittings, fixtures, wiring, Lights, Fans, Geysers etc. functional in the CURAJ campus, for all days in a month, including Sundays and Holidays, including manpower, labour, machinery, consumables, tools & plants etc. complete in all respects under supervision of Electrical Supervisor, as per standard practice and directions of Engineer-In-Charge.
2. Comprehensive Annual Operation, Repair, Maintenance and Periodic Servicing Works of pump houses and other water & booster pumps/motors/starters along with associated panels and accessories for all days in a month including Sundays and Holidays, including manpower, machinery, spare parts, consumables, tools & plants etc. complete in all respects, as per standard practice and directions of Engineer-in-Charge.
3. Carrying out of various Annual Electrical Works at CURaj as mentioned in BoQ.

**1. Scope of Work:-**

- (i) Deputing the qualified and experienced technical staff as per the site requirements and indicated hereunder.
- (ii) To attend day to day electrical complaints of Internal/External E.I., fittings, fixtures, all type of fans, water pumps, all type of lights (Conventional/LEDs/HVSV/MVSV etc.), sports ground lights, Auditorium Stage Lights, main boards, DB's, Electric Panel Rooms, Electric/Solar Water Heaters, compact rising mains etc. installed in the University Campus, maintenance of records, complaint register, log books and worker diaries etc.
- (iii) Repair & Maintenance of Overhead and Underground Electric Lines/Cables within a minimal time period in order to restore the supply of the affected building/area as per the financial bid document. Till completion of such work, the agency/contractor must have to make the alternative arrangements immediately at his own level and nothing extra in this regard shall be paid extra.
- (iv) Liaisoning with local Authorities in case of faults / breakdown etc.
- (v) Taking steps for preventing maintenance
  - (a) Checking of Electrical panels rooms, DB's main board, rising maintenance etc.
  - (b) Checking and maintenance of fans and fittings.
  - (c) Insulation test.
  - (d) Earth test etc.
- (vi) Comprehensive Annual O&M of two numbers pump houses and other water motors & pumps (tentative quantity=30 nos.), which includes operation of water pumps, their preventive electric maintenance along with repairing of pumps / starters and associated panels etc. as required considering the provision of immediate alternative arrangements in case of major faults.
- (vii) Maintenance activities carried out as per schedule should be noted in the maintenance register. When tests are carried out the test results should be recorded with appropriate identification reference.
- (viii) Cleaning and preventive maintenance of Solar /Electric Road Lights on quarterly basis.

- (ix) The electrical consumable items shall be provided by the University to the agency/contractor, in accordance with the BOQ.
- (x) All stationary, general cleaning material, insulation taps, nut-bolts, lugs of all types, anti-rust/corrosion sprays, sundry, tools, tackles and machineries etc. required for all electrical maintenance work shall be arranged by the tenderer and nothing extra shall be payable on this account.

**Staff deployment and their qualifications.** - The tenderer shall depute qualified and experienced staff as per requirement of the University. Before starting the work, the tenderer will submit the list of workers with their qualifications and address etc. along with valid police verification report.

2. The tenderer shall depute the staff with minimum qualification and experience at all days including Sundays and Holidays as detailed hereunder:-

S No	Manpower	Category	Minimum Qualification and Experience	Duties	Tentative Numbers
1	Electrical Supervisor	Highly Skilled	<p>1) Diploma in Electrical Engineering with minimum three years relevant working experience.</p> <p>OR</p> <p>ITI in Electrician Trade with minimum five years relevant experience.</p> <p>2) Basic knowledge of Computer applications (MS office).</p> <p>Note: The Candidate must have valid Electrical Supervisor License. (Here relevant experience means experience in Electrical O&amp;M Works upto 33kV substations and allied equipment etc.)</p>	Overall supervision of electrical works in general shift and as per the requirement along with a mobile phone & valid sim card.	01 No.
2	Wiremen	Skilled	<p>ITI in electrician/wireman trade with minimum three years relevant working experience.</p> <p>(Note: The Candidates must have valid Wireman License)</p>	Day to Day Electrical Maintenance on 24*7 basis including Sundays and Holidays of 60,000 plus electric light and power points, allied electrical fittings & fixtures, lights, fans, wiring, road lights, panels etc. installed in various buildings and playgrounds of the University Campus.	05 Nos.

3	Pump House Operators	Skilled	ITI in electrician/wireman trade with minimum three years relevant working experience.	Operation of water motors & pumps and associated valves etc. twice a day or as per the requirement including Sundays and Holidays at Pump House No-01 & 02.	04 Nos.
4	Khalasi	Unskilled	10 <sup>th</sup> Pass with exposure to the electrical works.	Assist the Wiremen/Electrician during the works etc.	05 Nos.

3. The number of staff mentioned above is only indicative and may increase as per the site requirement and nothing in this regard shall be paid extra. The prescribed complaint registers, log books and worker's diary shall be provided by the contractor/agency and these shall be neatly maintained by contractor and staff. All complaints are to be attended promptly and preferably within 02 days of lodge of the complaint. The complaint register should be got checked regularly from the Site In Charge.

4. All the installed electrical fittings/fixtures etc. shall be handed over on, as is where basis is, and nothing extra shall be paid.

1. After the expiry of the contract, the firm shall have to hand over the complete installation to the department in proper working order. All defects and deficiencies shall have to be rectified by the firm to the entire satisfaction of the Central University of Rajasthan with in a time limit, failing which the work shall be got done at the risk and cost of the contractor.

2. Insulation test shall be done during monsoon season, as per clause of CPWD specifications.

**3. All the deputed staff shall be in uniform duly prescribed by the University and carry valid I-Card of the Agency/Contractor.**

4. Any staff found missing from duty shall be marked absent and recovery shall be made for the day at the rates given below. (It is the responsibility of the tenderer to make alternative arrangement, in case any staff proceeds on leave / for reliever duty), on failure, the (penalty) shall be made from bill at the rate given below:-

- a) Highly skilled category - @Rs. 1600/- per day/per shift
- b) skilled category - @ Rs. 1200/- per day
- c) Semi-skilled category - @800/- per day

4. All the electrical works shall be carried out as per standard practice, GoI / CPWD Manuals & Specifications and directions of EIC.

**SH- II (b): Comprehensive AMC Work of Online UPS(s) of different ratings installed in various buildings of CURaj.**

1. Under this schedule, the agency/contractor has to carry out the Comprehensive AMC Work of Online UPS installed in various buildings of CURaj.
2. An indicative list of available online UPS is as under:

S. No.	Description of Item	Qty	Unit
1	1 KVA Online UPS	14	each
2	2 KVA Online UPS	5	each
3	3 KVA Online UPS	3	each
4	5-7.5 KVA Online UPS	8	each
5	10 KVA Online UPS	2	each
6	15 KVA Online UPS	1	each
7	20-30 KVA Online UPS	5	each
8	40 KVA Online UPS	2	each
	Total	40	each

Note: CURaj reserves the right to increase or decrease the quantity of contracted items any time during the currency of the contract. Accordingly, charges would be increased / decreased on the pro-rata basis. Makes of Online UPS installed at site are: Luminous, BPE, Uniline, APC etc.

3. This is Comprehensive AMC and shall include repair/replacement of all spare parts, sub-assemblies and connecting electrical wires etc. but excluding replacement of batteries. The agency/contractor shall use good quality spare parts preferably of the same brand as available in the original system.
4. Replacement of batteries shall be carried out as per the requirement and BoQ.
5. All the consumable articles/parts such as material required for cleaning of equipment and machinery, repair/replacement of spare parts and maintenance will be provided by the service provider at no extra charge.
6. The contract shall also include dismantling, shifting and re-installation of existing Online UPS System(s) along with battery bank and other accessories with in the Campus as per the requirement of University and to update the installed Online UPS if required, without any extra charge.
7. Breakdown Calls – The Online UPS should be attended within stipulated time as and when the fault is reported.
8. The old damaged / faulty spare parts shall be the property of the University.
9. The CMC Work of all the Online UPS shall be carried out as per the prescribed guidelines of respective Original Equipment Manufacturer / Authorized Service Agent of OEM and directions of EIC.
10. Any damage or loss caused to the Online UPS (s) or their parts during repair work; due to negligence, miss-handling by the contractor, shall be borne by the agency/contractor, either by paying the prevailing market price of that item(s) or buy a new one in the name of CURAJ (from OEM) of the same make and same or better specifications.
11. The reports of preventive maintenance, preventive maintenance register/file shall be submitted to the EIC. Apart from the preventive maintenance visits, any breakdown calls in between emanating from the user will also be attended to without any additional charge.
12. It shall be the responsibility of the agency/contractor to maintain the Online UPS (s) in working condition and checking of connections of battery bank and their general maintenance throughout the contract period and to hand over the same in working condition to the new tenderer/CURAJ after expiry of the contract.

13. The Systems that are not serviceable / repairable by the agency due to complete damage / obsolescence of technology or non-availability of parts/assemblies/components will be withdrawn from the maintenance contract. The decision of CURAJ in this regard will be final. Withdrawal of such systems shall be intimated to the agency and unit CMC charges shall be deducted proportionately.
14. The number of items covered under CMC may decrease or increase during the period of contract, in which case the payment will be made on pro rata basis.
15. All the deputed staff shall carry the valid I-Card of the Agency/Contractor/OEM.
16. Penalty Clause:
  - a) In case of minor breakdown/fault in the Online UPS, the issue must be resolved within 03 days of call/sms/email etc., failing to which, after that a penalty of Rs. 200/- per day per unit shall be imposed and recovered from the RA Bills of the agency/contractor. The detailed report of the incident shall also be submitted to the EIC at the earliest.
  - b) In case of major breakdown/fault in the Online UPS, the issue must be resolved within 07 days of call/sms/email etc., failing to which, after that a penalty of Rs. 200/- per day per unit shall be imposed and recovered from the RA Bills of the agency/contractor. The detailed report of the incident shall also be submitted to the EIC at the earliest.

**SH- II (c): Comprehensive AMC Work of 86 Nos. Water Coolers of 150 LPH capacity each, installed in various buildings of CURaj.**

1. Under this schedule, the agency/contractor has to carry out the Comprehensive Annual Maintenance of Water Coolers installed in various buildings of CURaj as per standard practice and directions of EIC.
2. The agency/contractor shall use the spare parts & material of IS and reputed brands/OEM.
3. Indicated quantity of water coolers is 86 Nos. of Make-Sidwal, Voltas, Usha etc.
4. This is Comprehensive AMC and shall include servicing cum repair/replacement of all spare parts, sub-assemblies, fan motor, compressor, condenser, relay, thermostat, drain pipe, green refrigerant charging and wiring works etc. as required on site.
5. All the consumable will be provided by the service provider at no extra charge.
6. The contract shall also include dismantling, shifting and re-installation of existing water coolers within the Campus as per the requirement of University, without any extra charge.
7. Breakdown Calls – The water coolers should be attended within stipulated time as and when the fault is reported.
8. The old parts removed from the water coolers will become the property of University.
9. The CMC of all the water coolers shall be carried out as per the prescribed guidelines of respective Original Equipment Manufacturer / Authorized Service Agent of OEM and directions of EIC.
10. Any damage or loss caused to the water coolers or their parts during repair work; due to negligence, miss-handling by the contractor, shall be borne by the agency/contractor, either by paying the prevailing market price of that item(s) or buy a new one in the name of CURAJ (from OEM) of the same make and same or better specifications.
11. The reports of preventive maintenance, preventive maintenance register/file shall be submitted to the EIC.
12. Apart from the preventive maintenance visits, any breakdown calls in between emanating from the user will also be attended to without any additional charge.
13. It shall be the responsibility of the agency/contractor to maintain the water coolers in working condition throughout the contract period and to hand over the same in working condition to the new tenderer/CURAJ after expiry of the contract.
14. The Systems that are not serviceable / repairable by the agency due to complete damage / obsolescence of technology or non-availability of parts/assemblies/components will be withdrawn from the maintenance contract. The decision of CURAJ in this regard will be final. Withdrawal of such systems shall be intimated to the agency and unit CMC charges shall be deducted proportionately.
15. The number of items covered under CMC may decrease or increase during the period of contract, in which case the payment will be made on pro rata basis.
16. All the deputed staff shall carry the valid I-Card of the Agency/Contractor/OEM.
17. **Penalty Clause:**
  - a) In case of minor breakdown/fault in the Water Cooler, the issue must be resolved within 03 days of call/sms/email etc., failing to which, after that a penalty of Rs. 200/- per day per Water Cooler shall be imposed and recovered from the RA Bills of the agency/contractor. The detailed report of the incident shall also be submitted to the EIC at the earliest.
  - b) In case of major breakdown/fault in the Water Cooler, the issue must be resolved within 07 days of call/sms/email etc., failing to which, after that a penalty of Rs. 200/- per day per Water Cooler shall be imposed and recovered from the RA Bills of the agency/contractor. The detailed report of the incident shall also be submitted to the EIC at the earliest.

**SH- II (d): Comprehensive AMC Work of HVAC System (Ductable / VRV-VRF / Cassate / Split / Tower / Window Type Air Conditioners and ETAC System) installed in various buildings of CURaj.**

1. Under this schedule, the agency/contractor has to carry out the Comprehensive AMC Work of Ductable / VRV-VRF / Cassate / Split / Tower / Window Type Air Conditioners and ETAC System installed in various buildings of CURaj.
2. This CAMC Work includes servicing, repair & maintenance of HVAC System including manpower, machinery, tools & plants, consumables etc. complete in all respects as per standard practice and directions of EIC.
3. Brief description of available Ductable / VRV-VRF / Cassate / Split / Tower / Window Type Air Conditioners and ETAC System is as under:

Sr. No.	Description	Tentative Qty.	Unit	Location
1	Inverter technology based scroll compressor(s) 140 HP VRV/VRF type Air Conditioning Systems complete. Make: Hitachi	01	Each	40 hp at VC Secretariat, Admin Building, CURaj and 100 hp at CIL Building
2	11.0 TR capacity Ductable Air conditioning units with Scroll Compressor with R 410 A Refrigerant, vibration isolators etc. complete. Make: Hitachi	04	Each	Seminar Hall, 2nd Floor, A5 Academic Building, CURaj.
3	5.5 TR capacity Ductable Air conditioning units with Scroll Compressor, R 410 A Refrigerant, vibration isolators etc. complete. Make: Carrier	03	Each	NMR Lab, A4 Building, CURaj.
4	Ceiling-mounted 3.0 TR Cassette Air Conditioning units complete. Make: Bluestar	03	Each	NAAC Room, Admin Building, CURaj.
5	Window/Split/Tower type air conditioners.	400	Each	Various buildings of the University.
6	30000 CFM, Air ducting system (ETAC)	02	Each	Mega Mess
7	28000 CFM, Air ducting system (ETAC)	04	Each	B3 and B4 Hostel
8	10000 CFM, Air ducting system (ETAC)	02	Each	Mega Mess
9	4000 CFM, Air ducting system (ETAC)	02	Each	B3 and B4 Hostel Mess area

Note: CURaj reserves the right to increase or decrease the quantities of contracted items any time during the currency of contract. Accordingly, charges would be increased/ decreased on the pro-rata basis.

4. The agency/contractor shall use good quality spare parts, preferably of the same brand as available in the original system.



5. All the consumable articles/ spare parts such as material required for cleaning of equipment and machinery, repair/replacement of spare parts and maintenance shall be carried out by the agency/contractor under this contract.
6. Breakdown Calls – The HVAC System should be attended within stipulated time as and when the fault is reported.
7. The cost of general inspection & servicing, all the spares that are repaired/replaced in the HVAC System will be covered under the CMC.
8. All the repairs and servicing of equipment shall be carried out on site at the place where it is located. All necessary tools and consumables, worn out parts, broken parts and other replaceable parts etc. shall be borne fully by the contractor. In the event of any damage of any part/equipment of the HVAC System, the same will be replaced by the contractor at his own cost and HVAC System will be kept in fully operational state all times during the contract period.
9. **Preventive Maintenance:** The service personnel of agency/contractor will visit the installation sites for general checkup of all HVAC System and submit the reports to the EIC as per standard practice.
10. The agency/contractor shall be responsible for preventive and corrective repair & maintenance of all HVAC System covered under the contract. Preventive Maintenance will include cleaning and servicing of the peripherals, replacement of worn-out parts, perform thorough dusting and vacuuming of all cabinet interiors, run all diagnosis and correct the problems, clean and tighten all power connections at input and output terminals, checking the general performance of HVAC System. The reports of preventive maintenance, preventive maintenance register/file shall be submitted to the EIC.
11. It shall be the responsibility of the agency/contractor to maintain the HVAC System in working condition throughout the contract period and to hand over the same in working condition to the new tenderer/CURAJ after expiry of the contract.
12. The Systems that are not serviceable/repairable by the agency due to complete damage / obsolescence of technology or non-availability of parts/assemblies/components will be withdrawn from the maintenance contract. The decision of CURAJ in this regard will be final. Withdrawal of such systems shall be intimated to the agency and unit CMC charges shall be deducted proportionately.
13. The number of items covered under CMC may decrease or increase during the period of contract, in which case the payment will be made on pro rata basis.
14. The works are to be carried out as per standard practice and directions of EIC.
15. All the deputed staff shall carry the valid I-Card of the Agency/Contractor/OEM.
16. **Penalty Clause:**
  - a) In case of minor breakdown/fault in the HVAC System, the issue must be resolved within 03 days of call/sms/email etc., failing to which, after that a penalty of Rs. 200/- per day per Unit shall be imposed and recovered from the RA Bills of the agency/contractor. The detailed report of the incident shall also be submitted to the EIC at the earliest.
  - b) In case of major breakdown/fault in the HVAC System, the issue must be resolved within 07 days of call/sms/email etc., failing to which, after that a penalty of Rs. 200/- per day per Unit shall be imposed and recovered from the RA Bills of the agency/contractor. The detailed report of the incident shall also be submitted to the EIC at the earliest.

**SH- II (e): Comprehensive Annual Operation, Repair and Maintenance of**  
**04 Nos. 11/0.433 kV electric sub-stations and 05 numbers DG Sets at**  
**CURaj**

**This work involves Comprehensive Annual Operation and Maintenance of 04 Nos. 11/0.433 kV electric sub-stations and 05 numbers DG Sets along with associated panels etc.**

1. The Comprehensive Annual Operation and Maintenance work of 04 Nos. 11/0.433 kV Electric Sub-Stations and 05 numbers DG Sets along with associated panels etc. at Central University of Rajasthan shall be carried out through OEM/Authorized Service Agents of OEM only, being the specialized work.
2. For the purpose, the agency/contractor shall have to execute MOU with OEM / Authorized Service Agent of OEM in case of E&M Works (Non-Comprehensive Maintenance of ESS) within 15 days from date of award of LoA. Only on receipt and verification of the MOU, the University shall award the work.
3. All the works shall be carried out as per CPWD General Specifications for Electrical Works, Part-I (Internal)-2013, Part-II (External)- 2005, Sub-Station Part IV-2013 & DG Sets Part- VII and should also comply with relevant provisions of the Indian Electricity Rules /Acts as applicable, amended up to date.
4. For the items which are not covered under CPWD Specifications, special conditions of Indian Electricity Rules/ CEA norms/B.I.S. specifications shall apply. In this regard, decision of the Engineer-In-Charge shall be final. Wherever any reference is made of any Indian Standard, it shall be taken as reference to the latest edition with all amendments / revisions issued thereto up to date.
5. This work includes 24x7 manning at all 04 Nos. electric sub-stations and 05 numbers DG Sets along with associated panels etc. through experienced and qualified operators (skilled category) with comprehensive annual servicing, repair & maintenance of all electrical installation, switchgears and all incoming feeders at electric sub-stations and DG Sets
6. The substation and all other E&M installations are critical and will be functioning round o'clock, 365 days in a year on all holidays and Sundays. The contractor shall have to take care of exigencies that may be encountered promptly.
7. The maintenance of ESS and DG Sets shall be uninterrupted service, if any breakdown is attributed on part of the contractor/agency, suitable recoveries shall be made as per decision of Engineer-In-Charge.
8. Contractor shall ensure that, emergency spare parts are available on site readily for attending the breakdowns.
9. The agency/contractor shall be responsible for preparation & maintenance of all records, break down reports etc. and timely submission to the EIC as and when required.
10. The agency/contractor shall be responsible for liaisoning with local Authorities in case of faults / breakdown etc.
11. The major components of 11/0.433 kV ESS are Transformers, VCBs, ACBs, Control Panels, HT/LT Panels and associated electrical installations and switchgears etc.
12. The Comprehensive Annual Maintenance of DG Sets involves Servicing of DG Sets complete with diesel engines, alternators, control panels along with associated accessories as per OEM norms, which includes general checking/inspection of all DG Sets on quarterly basis, attending unlimited breakdown calls, minor repair works and preventive maintenance including all checks replacement of filters, lub. oil, coolant etc. as recommended by respective OEM as per standard practice and directions of Engineer-in-Charge. This work includes all taxes, duties, labour, consumables, tools & plants, sundry etc. as required on site and excludes all major repair works and replacement of any type of spare part/component.
13. These DG Sets are comprised with Batteries, DG Set Control Panels with associated Air Washers, Coil Coolers, Fuel Tanks, Fuel & Water Piping, Axel Flow Fan and Alternators.
14. Comprehensive Annual Operation and Maintenance of 05 Nos. Diesel-Generator Sets shall be carried out as per the prescribed guidelines of respective Original Equipment Manufacturer (OEM)

which are Cummins and / Kirloskar; and CPWD Specifications for D.G Sets 2013, Part VII, amended time to time.

15. The work is to be carried out to the entire satisfaction of the Engineer-In-Charge and his authorized representatives.
16. **All the deputed staff shall be in uniform of University/OEM and carry valid I-Card of the Agency/Contractor/OEM.**
17. This work also comprises, general cleaning of all electric sub-stations which includes LT panel rooms, HT panel rooms, Transformer rooms, Store rooms, Engineer/Supervisor office, DG Set area and Utility area etc. All materials and consumables required for this work shall be arranged by the agency/contractor and nothing extra shall be paid on this account.

#### 18. Execution of Work

Before starting the work the tenderer shall take over the inventory, any short comings noticed at the time of taking over shall be brought to the notice of CURAJ for suitable decision. Failing which it shall be presumed that the site has been taken over in perfect working order. After completion of the work against the agreement, the Inventory shall be handed over as per direction of the Central University of Rajasthan or his authorized representative. In case any shortfall or damage to the installation is noticed, the tenderer shall make good of the same with the same make of equipment or as per direction of the Central University of Rajasthan, failing to do so, the recovery shall be made from the bill of tenderer.

The routine preventive maintenance of Electric Sub-Station and DG Set equipment shall be carried out preferably during holiday/Sunday without disturbing the office working of client department.

DG Set Fuel required for the operation and testing of all D.G. Sets will be provided by the tenderer and it's cost including transportation and labour will be reimbursed on production of original bills base upon actual consumption and DG Log Books and shall be reimbursed to the agency/contractor by the University as per BOQ prime cost.

#### 19. Penalty Clause :

1. In case of minor electric breakdown/faults in the E&M equipment of the 11/0.433 kV Electric Sub-Stations/DG Sets, the issue must be resolved and power supply be restored within six (06) hours of call/sms/email etc., failing to which, after that a penalty of Rs. 1,000/- per hour shall be imposed and recovered from the RA Bills of the agency/contractor. The detailed report of the incident shall also be submitted to the EIC at the earliest.
2. In case of major electric breakdown/faults in the E&M equipment of the 11/0.433 kV Electric Sub-Stations/DG Sets, the issue must be resolved and power supply be restored within twenty four (24) hours of call/sms/email etc., failing to which, after that a penalty of Rs. 1,000/- per hour shall be imposed and recovered from the RA Bills of the agency/contractor. However upto completion of the work the agency/contractor has to provide the possible alternative arrangements. The detailed report of the incident shall also be submitted to the EIC at the earliest.

**SH- II (f): Comprehensive Annual Operation (in general shift), Repair and Maintenance of 14 nos. Johnson make, machine room less passenger lifts at CURaj.**

1. The scope of work includes comprehensive annual operation and maintenance of 14 nos. Johnson make passenger lifts including manpower, material, repair & maintenance of spare parts, consumables etc. cost complete in all respects as per OEM specifications, standard practice and directions of EIC. The Comprehensive Annual Operation and Maintenance work of 14 nos. Johnson make passenger lifts along with associated panels etc. at Central University of Rajasthan shall be carried out through OEM/Authorized Service Agents of OEM only, being the specialized work.
2. For the purpose, the agency/contractor shall have to execute MOU with OEM / Authorized Service Agent of OEM within 15 days from date of award of LoA. Only on receipt and verification of the MOU, the University shall award the work.
3. The lift car shall be maintained properly. Following daily checks shall be performed and recorded before putting the lifts in operation:-
  - i) Landing Locks
  - ii) Movement of car with gate open.
  - iii) Try to open the gate when car is moving.
  - iv) Car gate switch
  - v) Movement of car with gate open
  - vi) Open the gate while car is moving
  - vii) Door operation safety, functioning of emergency stop button, call bell, car lights etc.
  - viii) ARD check etc.
4. The Agency / Contractor has to depute one (01) lift operator during contract period in general shift at all days including Sundays and holidays
5. The tenderer shall make alternate arrangement in case of absence of lift operator, failing which; a recovery shall be made at the rate of Rs. 1000/- per day.
6. After checking the safeties; operator shall make necessary entries in log book of lift Necessary remarks regarding Non-functioning of lift, repair carried out etc. should be recorded by the operator and reported to Site-in-Charge.
7. Any break down should be immediately reported to the firm to whom maintenance contract is awarded by the tenderer, and the matter should be immediately reported to SITE IN CHARGE concerned. Necessary entries in the maintenance register indicating time of occurrence of fault; nature of fault, time of its rectification etc. should be recorded.
8. Checklist as per logbook should be filled as per schedule i.e. daily check, weekly check, monthly check, quarterly check, annual check etc.
9. The agency/contractor shall liason and coordinates with the local authorities in order to get the clearance/safety certificates of lifts. The government fee, if any for the purpose, shall be borne by the University.
10. Any accident involving damage to human life, lift machinery equipment etc. due to mal-operation of lift, by the staff of the tenderer, will be the responsibility of the tenderer. The tenderer has to make good the losses, by way of replacement of machinery, equipment, compensation to the person etc. The decision of the Central University of Rajasthan in this regard shall be final and binding on the firm.
11. In case of breakdown or stopping of lift between the landings on account of any interruption in power supply or some other reason the rescue operation shall have to be performed by the lift operator within short period.
12. All consumables required for maintenance work such as tube light chock & fans etc. in the lifts

are in the scope of work of contractor and nothing extra is payable on this account.

13. **All the deputed staff shall be in uniform of University/OEM and carry valid I-Card of the Agency/Contractor/OEM.**

14. **Penalty Clause:**

- a) In case of minor breakdown/fault in the Lift, the issue must be resolved within 02 days of call/sms/email etc., failing to which, after that a penalty of Rs. 200/- per day per Unit shall be imposed and recovered from the RA Bills of the agency/contractor. The detailed report of the incident shall also be submitted to the EIC at the earliest.
- b) In case of major breakdown/fault in the Lift, the issue must be resolved within 07 days of call/sms/email etc., failing to which, after that a penalty of Rs. 200/- per day per Unit shall be imposed and recovered from the RA Bills of the agency/contractor. The detailed report of the incident shall also be submitted to the EIC at the earliest.

### **SH – III Comprehensive Annual Repair & Maintenance Work of Fire Hydrant System and Fire Alarm System installed at CURaj.**

The following activities are intended to be covered under this schedule:-

- a) Comprehensive Annual Maintenance Work of Fire Hydrant System and Fire Alarm System including associated equipment installed in various building of the University as specified in Schedule of Work and as directed by the Site in Charge or his authorized representative complete in all respects including manpower, material, spare parts and consumables etc.
- b) The Fire Hydrant System and fire alarm system including associated equipment shall be checked / tested by the specialized persons on definite time intervals and maintained throughout the contract in working condition as per standard practice and direction of the EIC.
- c) All the repair / replacement of spare parts, consumables, manpower and machinery etc. as required on site are included and nothing shall be paid in this regard extra.
- d) The agency/contractor shall use good quality spare parts, preferably of the same brand as available in the original system.
- e) It shall be the responsibility of the agency/contractor to maintain the System in working condition throughout the contract period and to hand over the same in working condition to the new tenderer/CURAJ after expiry of the contract.
- f) The reports of preventive maintenance, preventive maintenance register/file shall be submitted to the University.
- g) It shall be the responsibility of the contractor/agency to liason and coordinate with the local authorities in order to get the clearance / safety certificates as required. The government fee for the same, if any, shall be borne by the University.
- h) All the deputed staff shall carry the valid I-Card of the Agency/Contractor/OEM.

## **SH – IV Comprehensive Annual Maintenance Contract for RO Plants/Purifiers.**

1. The scope of work includes comprehensive annual maintenance and servicing of RO Plants/Purifiers and submitting a report after every visit. The scope of work includes checkup of each Unit/system and general cleaning, chemical cleaning of cartridge, if required, replacement of all type of membrane, all type of filters, all pipes, S.V., TDS Controller, all type of sensors, pump etc. as per requirements of the University during the CAMC Period and as per the directions of the Engineer-in-charge.
2. In case of any complaint/ breakdown/fault in any equipment, the firm has to attend the fault within 24 hours of lodging of complaints. Failing to which, penalty may be levied as follows:
  - 2.1 Attending the complaint between 24 hours to 7 days of the intimation - Rs. 1000/- per day after expiry of 24 hours period of each complaint of each R.O. unit.
  - 2.2 Attending the complaint beyond 7 days from the date of the intimation - Rs. 2000/- per day after expiry of 7 days period of each complaint of each R.O. unit.
3. The CAMC is for preventive as well as for break down maintenance and includes repair and replacement of the following parts (related to RO system) free of charge during the CAMC Period by the contractor:-
  - 3.1 All kinds of Filters
  - 3.2 Pre-filter candle
  - 3.3 All type of Compressor/Motor/Pump/Capacitor/Pipes/Wire
  - 3.4 Thermostat.
  - 3.5 Relay
  - 3.6 Carbon filter/ activated carbon
  - 3.7 Worn out parts etc.
  - 3.8 All kind of Membrane
  - 3.9 All kind of TDS Controller
  - 3.10 All kind of sensors, valves
  - 3.11 Other Part - as required for the each unit
  - 3.12 Anti-Scaling chemical and other such consumables for proper functioning of RO Plants.
  - 3.13 All other parts of the RO which are necessary to be repaired or replaced.
4. Free replacement of all consumables as described above such as cartridges, candles, post carbons, membranes etc. are mandatory, during the contract period as directed by Engineer in-charge to get the desired water quality.
5. Each RO must be inspected by authorized service personnel and maintained at least once every week during the contract period and the Engineer-in-charge may direct the vendor to make extra visits to ensure good quality of water and the bidder/agency have to fulfill that without any delay and submit the report to the Engineer-in-charge.
6. The membranes of RO System are to be replaced after an interval of six months and as per the requirement to ensure good quality of water.
7. The TDS of water of RO System must be maintained below **150 TDS**. Otherwise the service will be considered as not resolved and penalty will be applicable as above.
8. The repair work is to be carried out within the premises of the University. In the event of major repairs, if any of the machines required to be taken outside the University premises, the same will be allowed to be taken outside only with the written permission of the University. No separate charges on account of labour and transportation would be paid by the University for that purpose.
9. During the concurrency of contract, if any mishap occurs due to electrocution or faulty fittings, it will be the responsibility of the contractor to compensate the loss on account of injury to any person/ property.
10. In case of repairs/ replacement of working parts in the water purifiers/RO unit, only genuine spare parts with ISI marking should be used and signature of user/ location in-charges/Engineer in-charge should be obtained in the job cards/slips.
11. In case any water purifier/R.O. is shifted from one location to another or is to be removed from any location, the contractor shall be liable to provide all infrastructures/services/manpower etc. for

which no additional charges will be paid by the office. However, no machines will be shifted without the knowledge of the University Engineer-in-charge.

12. The contractor shall be responsible for behavior and conduct of its workers. Worker with doubtful integrity or having a bad record shall not be engaged by the contractor. In this regard, it is also to be stated that the antecedents of the mechanics/ labourers to be deployed by the firm for execution of AMC work, may be verified from the local police.
13. All the sub-standard material if brought by contractor shall be rejected and the contractor shall have to be removed that by himself at their own cost from the site immediately and this office/University will not be responsible for the safe custody of the same.
14. The awardee/successful bidder shall provide a warranty that all water purifiers are serviced adequately, and any necessary repairs or part replacements have been carried out in accordance with the specifications outlined in the contract agreement. Additionally, the workmanship must meet industry standards.
15. Bidder shall be submitted the water testing report of Govt. approved laboratory/CURAJ Department laboratory on quarterly basis.
16. Detailed list of the RO Water Purification System at Central University Of Rajasthan are as follows:

S. No.	Description	Quantity (In Nos.)	Unit	Location
1	Reverse Osmosis Plant 300 LPH (RO-300 SS) of Make- Hi-Tech Sweet Water Technologies Pvt Ltd installed in year 2011	2.00	Nos	Girls hostel building no. 1 & 4
2	Reverse Osmosis Plant 300 LPH (RO-300 SS) of Make- Hi-Tech Sweet Water Technologies Pvt Ltd installed in year 2012	2.00	Nos	Girls hostel building no 2 & 3
3	Reverse Osmosis Plant 300 LPH (RO-300 SS) of Make- Hi-Tech Sweet Water Technologies Pvt Ltd installed in year 2013	2.00	Nos	Boys hostel building no 5 & 6
4	Reverse Osmosis Plant 300 LPH (RO-300 SS) of Make- Hi-Tech Sweet Water Technologies Pvt Ltd installed in year 2014	2.00	Nos	Boys hostel building no 7 & Mega mess
5	Reverse Osmosis Plant 50 LPH-Eureka Forbes , installed in year 2021	2.00	Nos	Hostel building no B8
6	Reverse Osmosis Plant 25 LPH-Eureka Forbs , installed in year 2017-18	8.00	Nos	Academic Block 4A3-4 nos., 4A6- 4nos
7	Reverse Osmosis Plant 15 LPH-Kent/Eureka Forbes, installed in year 2013-14	8.00	Nos	Health center-1nos, VC Residence-1nos, KV Building-1nos First Floor, ESS No. 01-1nos, Guest House- 1nos, Admin building-3 nos.
8	Reverse Osmosis 12 LPH- Aqua Fresh installed in year 2019	1.00	No.	Admin Block-Second Floor
9	Reverse Osmosis 12 LPH- Eureka Forbes installed in year 2015	1.00	No.	Department of Environmental Science, Academic Block 4A6
10	Reverse Osmosis Plant 10 LPH	1.00	No.	Pantry of Registrar Office-First Floor-Admin



				Block
11	Reverse Osmosis 250 LPH-Aquaguard installed in year 31/01/2023	1.00	No.	SP-1 Building
12	Supply and Installation (Replacement) of Reverse Osmosis Plant of 50 LPH Capacity - Make Eureka Forbes  Note: Old Reverse Osmosis Plant of 50 LPH Capacity - Make Eureka Forbes will be the property of the Contractor. Hence contractor may be advised to quote their rates accordingly.	10.00	Nos	Academic Block 4A4- 3 nos., 4A5- 3 nos., Canteen area-1 nos., Guest house-3 nos.

## **SH – V Comprehensive Operation and Maintenance of IT Works**

(IT & AV System, IPEPBX, CCTV and other IT & Networking Equipment etc.)

1. Scope of work: The following activities are intended to be covered under this contract:-

- a) Operation & CAMC of Audio & Video Conferencing System, Networking items for LAN and Wi-Fi systems like Switches, Active & Passive network components, Smart classrooms Equipments including PA Systems, Hardware and Software maintenance of Computers, Laptops, Printers, Projectors, Servers, Biometric Access control systems, IPPBX Telephone system CCTV systems, and, or, as specified in Schedule of Work or as directed by the Central University of Rajasthan.
- b) Performing the daily/weekly/monthly checks & taking remedial action for proper maintenance.
- c) O & M work shall be done as per agreement and as directed by the concerned official.
- d) All consumables petty materials are in the scope of the tenderer and nothing extra shall be payable on this account.

2. Indicative deployment of Manpower:-The tenderer shall depute the following staff with minimum qualification and experience as detailed hereunder:

IT Engineer (For general shift for all days except Sunday and national holidays) - 01

Network Engineer (For general shift for all days except Sunday and national holidays) - 01

CCTV Engineer (For general shift All days) - 01

### **Qualification:-**

IT Engineer: A Computer Science / IT Engineering graduate and must having 2 years' experience in same field Having Diploma in Computer Hardware or Equivalent

Network Engineer: A Computer Science / IT Engineering graduate and must having 2 years' experience in same field Having Diploma in Networking or Equivalent

CCTV Engineer: ITI/ Diploma/Degree in respective field with minimum experience of 3 years in the operation of CCTV operation and maintenance or relative field.

3. BREAKDOWN:-

1. In case of any breakdown of the system certified person will visit the site and repair within 24 working hours. Equipment will be thoroughly inspected and repaired, on working days.
2. For major works, the time is a major parameter and the breakdown shall be completed within stipulated time as decided by the Central University of Rajasthan and if there is delay in repair work, penalty shall be imposed as decided by the Central University of Rajasthan.
3. For any major replacement of part of any system is not covered under this head but this shall be the responsibility of tenderer to arrange the same on basis of actual reimbursement of the part. The material / major part replaces shall be same make as installed.
4. Tenderer must submit Authorization letter from OEM with the tender for Low Voltage/IT Items. Terms and Condition of the agreement must be as per the standards of OEM and site requirements.
5. In case of non-complying with requirements or rectification of breakdown under CAMC/AMC head by the contractor within 24 hours (exclusive of any major fault, which may require complete overhauling of multiple interconnected system), deduction shall be made as penalty on pro-rata basis under particular head of the AMC/CAMC till rectification.
6. Penalty shall be imposed @ Rs 2000 per day for non-availability of IT Engineer, Network Engineer, CCTV Engineer.

**SH – VI**  
**Comprehensive Maintenance of Horticulture and operation & maintenance of Drip Irrigation System.**

The Scope shall include but not limited to the following:

- Complete maintenance of Trees, Plants and peripherals, shrubs, hedge, lawns, (Including cricket ground, hockey ground and football ground etc.) cemented potted plants, flower beds, creepers etc. within the campus of the Central University of Rajasthan.
- Maintenance includes weeding, pruning, gap filling, watering, mowing of lawn, hoeing, hedge-clipping, application of insecticide & pesticide, top dressing of lawn with good earth and manure including other maintenance work as directed by the University from time to time.
- Fertilizers, Manures, plant protection materials etc. will be provided by the contractor nothing extra shall be paid in this regard.
- The Contractor/Agency shall provide all tools and machineries for Horticulture maintenance work. However, University will provide the electricity free of cost. Cost of fuel and maintenance charges of machineries will be borne by the Contractor.
- Maintenance of Drip Irrigation System, (water sprinkler system installed at cricket, football and hockey grounds and another places of the University etc.) periodical checking of the system cleaning, oiling, greasing, routine maintenance, realignment, necessary safety arrangements & repair/ replacement of consumables such as Super flow screen filters, Gravel filters, Pressure relief valve, Non return valve, stainless steel pressure gauges, by pass valve PP, PVC control/ball valves, sub main flush valve, Reinforced nylon air release valve CPVC gate valves, super flow disc clean filters, PVC pipes and fittings etc. as per direction of Engineer-in-charge. This shall include all cost involved in maintenance except for electricity for operation, which shall be provided by the University free of cost.
- Contractors should engage experienced manpower/person for operating the water pumps set/ drip irrigation system for watering the plants. For the records and maintenance purpose of water pump, Contractor should maintain the register for operation of water pumps including cricket and football grounds.
- The contractor must retain sufficient manpower to cater the vacancy arisen on account of leave, weekly offs, medical problems, holidays or any other exigencies.
- Agency shall be responsible to maintain the records of daily attendance of the staff deployed by them. However, the University reserves the right to inspect the record and verify attendance as and when required or deemed fit through its officer.
- Tentative 51 manpower including experienced Supervisor should be deployed for to carry out the Comprehensive Horticulture Maintenance and Operation Maintenance of Drip Irrigation System of the University. The number of manpower is indication only, wherever additional manpower required for carrying out the task shall be provided by the tenderer, nothing extra shall be paid by the University in this account.

Tenderer shall engage experienced and required number of skilled workers as mentioned in the specifications familiar with the landscaping operation for undertaking landscaping and gardening work at site premises covered under the contract and shall develop and maintain, garden, trees, outdoor and indoor plants on regular basis and shall arrange all durables, consumables, tools, equipments and machines required for gardening/ maintenance.

The tenderer shall provide seasonal plants and flowers & changing of plants including potted plants whichever is required, and quantity as approved by University.

Creepers and other plants in green wall / façade / boundary wall shall be replaced wherever needed including removal of grass/weed and dry leaves.

Penalty shall be imposed @ Rs 1600 per day for non-availability of Gardner and @Rs. 1200 per day for helper.

Scope of Work:					
	Horticulture Maintenance				
	Note All Manpower, tools & plants and Machinery (spray machines, grass cutting machines, fuel etc.) shall be provided by contractor for carrying out complete maintenance of horticulture work.				
1	a)The maintenance of lawn includes (Cricket Ground, football Ground, Hockey Ground etc.), weeding, trimming and pruning of grass by mowing with grass cutting machines, top dressing, using of manure, fertilizers, spraying of insecticides, pesticides, fungicides, weedicides, sweeping and watering etc and patch work by planting the doob grass where dead. (Insecticide, manure, good earth, pesticide for Lawn area - 20 Acre shall be provided by the contractor). b) The maintenance of trees, shrubs and creepers include the maintenance of all trees, shrubs and creepers by their manuring, watering hoeing, pruning and trimming, replacement of old dead one by one and to ensure enough supply of air and water. Circular kiaries around the tree trunk are to be prepared. The creepers across wall are to be provided support by rope and other trees and shrubs by bamboo sticks as required. Trees 10 years old -16887 Nos. Trees below three year- Hedge - 8749 Rft Shrubs - 11847 Nos. c) The Potted Plants are to be maintained at least at the present level of maintenance in the building, both inside the Corridors on all floors and around the building including university nursery. Flower pots -200 d) Cleaning jungle including uprooting of rank vegetation, grass, brush wood etc. on periphery of cement concrete road and tiled path up to 50 feet wide strip on both side ( length of road = 16Km ) e) Removal of Horticulture waste by mechanical transport including loading by tractor trolley, unloading and stacking with all leads and lift as per direction of engineer in charge. f) Providing uniform to deployed manpower as per following details- <b>Male-</b> Rustic orange shirts & Paints, black formal leather laces shoes, nameplate name & designation) <b>Female-</b> Rustic orange saree/salwar & kameez, black sandals/shoes, name plate (name & designation) Uniform including- Shirt(02nos.) + pant (02nos.) + winter /sweater (01no.) + shoes(01no.) + belt (01 no.)+ Name plate (1 no.) + * It is Mandatory for the contractor to provide all required items under this sub-head to all the deputed staff.				
2	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).		200 CUM		
3	Supplying and stacking of well decayed cattle manure at site including royalty and carriage upto 5 k.m.lead complete (Cattle manure measured in stacks will reduced by 8% for Payment).		100 CUM		
4	Providing & treatment of anti-termite (Chloropyriphos) for trees and shrubs, insecticide, fungicides etc.		As per need		
5	<b>Maintenance of Drip Irrigation System :</b> Maintenance of Drip Irrigation System installed in the University around 16 KM peripheral, periodical checking of the system cleaning, oiling, greasing, routine maintenance, necessary safety arrangements & consumables such as Super flow screen filters, Gravel filters, Pressure relief valve, Non return valve, stainless steel pressure gauges, by pass valve PP, PVC control/ball valves, sub main flush valve, Reinforced nylon air release valve CPVC gate valves, super flow disc clean filters etc. as per direction of Engineer-in-charge. This shall include all cost involved in maintenance except for electricity for operation, which shall be provided by the University free of cost.				

## **SH – VII**

### **SH : VII Mechanized Housekeeping Services, Garbage Collection & Disposal Services, and Pest Control Services at CURAJ**

#### **A) For providing Mechanized Housekeeping Service and Waste Disposal**

##### **Scope of Work:**

1. Scope of Services
  - i) Mechanized Housekeeping Service
  - ii) Waste Disposal
2. Housekeeping Service include machine enabled cleaning, sweeping, wiping, dusting, moping, freshening, garbage collection, segregation & disposal to Government Approved Garbage Treatment Plant, vacuum cleaning, scrubbing and any other similar tasks as assigned by CURAJ authorities from time to time
3. Frequency of House Keeping Services will be different for various elements i.e. daily, weekly, monthly, tasks as described in succeeding paras for each segment.

Approximate areas and number of buildings of the University for Housekeeping services are as under:-

i)	Carpet Area (For cleaning and up-keeping purpose)	115287.38 Sq.m.
ii)	6 mtr. Wide C.C. road with 1.5 Mtr wide tiled path and bituminous road including car parking area of the campus.	Road length 9.8 KM
iii)	Number of Buildings & Structures	35

#### **4. Schedule of Work for Mechanized Housekeeping Services:**

The scope of Work and the Schedule of services shall include all works but not limited to cleaning (building, open area surrounding the buildings and approach road surface), sweeping, mopping of floors, vacuuming of carpets, dusting of furniture and equipment (other than students rooms in hostels).

<b>Scope of Work</b>					
<b>Sl.No.</b>	<b>Activity</b>	<b>Frequency</b>			<b>Machines/ Equipment</b>
		<b>Daily</b>	<b>Weekly</b>	<b>Monthly</b>	
1	Floor Cleaning	Mopping with wet cloth (Pocha) mixed with Water and consumable as per list of consumables in all the circulation area inside the building	Scrubbing & Drying with Single Disk & Wet Dryer	Deep Cleaning	Single Disc & WD VC
2	Corridor Cleaning	Mopping with wet cloth (Pocha) mixed with Water and consumable as per list of consumables in all the circulation area inside the building	Deep Scrubbing & Drying with Auto Scrubber Dryer	-	Auto Scrubber Dryer, Dust Controller.

3	Classroom Cleaning	Mopping with wet cloth (Pocha) mixed with Water and consumable as per list of consumables in all the circulation area inside the building	Scrubbing & Drying with Single Disk & Wet Dryer	Deep Cleaning	High Pressure Jet & Wet & Dry Vacuum
4	Rooms Cleaning	Mopping with wet cloth(Pocha) mixed with Water and consumable as per list of consumables in all the circulation area inside the building	Scrubbing & Drying with Single Disk & Wet Dryer		
5	Doors handles Cleaning		Dusting	Deep Cleaning	Manually
6	Wash basin Cleaning	Washing	Scrubbing & Drying with scrubber & WC		High Pressure Jet & WD VC
7	Mirror Cleaning	Washing & Drying with Glass Kit	-		-
8	Toilet Cleaning	Washing	High Pressure Cleaning with High Pressure Jet (including wall tiles)	-	High Pressure Jet & WD VC
9	Urinals Cleaning	Washing	High Pressure Cleaning with High Pressure Jet	-	High Pressure Jet & WD VC
10	Dustbin Clearance & Cleaning	Garbage Collection & Removal	Washing of Dustbins	-	Manually
11	Cleaning of electrical fittings & fixtures	-	-	Manually	Dry Vaccum Cleaner
12	Staircase Cleaning		Hand Scrubbing & Drying with scrubber & Wet vacuum		Hand Scrubber
13	Outer Area		Sweeping & cleaning		Manual Sweeper/Machine
14	Window Glass		Washing & Drying with Glass Kit (Section wise)		Glass Kit

15	Cleaning of internal pipe sewer line as and when required	yes	yes	Yes	High pressure jet/ Manual
16	Road Cleaning & sweeping of internal functional area of roads		9.8 KMs.	9.8 KMs.	by Machine

5. Schedule of Work for Garbage Collection & Disposal Services:

It will be responsibility of bidder to collect solid waste and dispose the non-recyclable part in the designated land fill site, which will be outside the CURAJ Campus, using its own manpower and vehicle. Disposal of the waste at outside the University campus will be decided by the University authority.

- Collection & disposal of all garbage on regular basis at least once in a day from all the above buildings including Staff quarters, mess and Mega Mess wherever dust bins are kept. Responsibility of primary disposal shall be outside CURAJ campus
- Maintain hygiene in the premises by routine garbage collection & disposal by safe & secured manner.
- Recycling Documents –University authority will ensure that all papers, CDs, memory devices will be shredded before they are disposed.
- The waste from the dumping point shall be collected by the agency for collection and dispose it off to the corporation disposal point through their vehicles.

6. Housekeeping Monitoring and Control:

For better management and smooth services, the following monitoring mechanism will be adopted by the contractor:-

- Toilets Checklist:-This is to be attached on the back of the each toilet door. It is to be daily filled up by the Contractor supervisor on duty.
- Housekeeping Complaints Report: This is to be filled up by the staffs of the Contractor who receive/observe the complaints through email or verbally from University Officials/as per schedule or due date and requirements for any of the Services. The contractor will take immediate action to resolve the same failing which the Penalty Clause will be invoked. Lifting, carrying and disposing off the dead birds, animals, rodents, reptiles, insects etc. if found in and around the campus.
- Housekeeping Record Register: - This register is to be completed on the basis of information received by the Housekeeping Supervisor from University Officials through the inspection of the site, material on site, attendance sheet of the staff and as per format provided by University etc..
- Garbage Disposal: The Contractor shall collect garbage in specified color coded bags from all dustbins Garbage Collection within the university campus and Disposal it to outside the University campus.
- Terrace Cleaning: The Contractor shall clean the terrace periodically as per instructions. The Contractor's quoted rates should be inclusive of this item. No extra payment what so ever will be made on this account. In case the terrace drain spouts are clogged due to improper cleaning of the terrace, necessary penal action may be taken against the vendor.

7. The Contractor has to provide the details of deployment of staff with the technical bid at least one housekeeping staff is to be deployed for every 3000 Sqm area in shifts as decided by University.
8. The Contractor shall ensure that only those machineries are provided for executing mechanized housekeeping services in Client's premises that are technically brand-wise specified and defined in the bid document. The Contractor shall also ensure that the supplied machineries are in good working condition.
9. The building and its surrounding areas shall always be kept in well hygienically clean and disinfected conditions.
10. The Contractor shall also ensure that all the monthly requirements of Chemicals and Cleaning Materials (Consumables), as defined in the bid document, are provided on 1st of each month and as per the requirements to the Client's office in totality. In case it is found that any chemical or cleaning material of the inferior quality or sub-standard quality, or the brand other than those specified in the tender document, is supplied ; or if the branded items as per the tender document are NOT supplied in the proportion to the requirements for executing the housekeeping services for the standards of the Client, the Client shall be at liberty to treat the action of the Contractor as breach of Contract and shall terminate the Contract besides imposing penalties under the provisions of the Contract / Tender Document and forfeiting the Performance Guarantee.
11. The Contractor shall ensure that
  - a) All toilets are provided with all consumables / items every time.
  - b) The stock of all the Cleaning materials / consumable / chemicals is maintained in Client's premises.
  - c) The stock details i.e. Receipt and Issue of the cleaning materials / consumables are maintained by the Contractor's Supervisors / Facility Manager and are verified by the University representative of the Client on a day to day basis.
  - d) The Cleaning Material / Consumable / Chemicals are supplied to meet the full requirements of the office.
12. Area details of buildings covered under the scope of work.

S.N	Category	Qty.	Unit
1	Girls Hostel Buildings(G+2) No.1, 2, 3 & 4 Building no. 1 & 2- 4926.38 sq.mt each Building no. 3 & 4- 4472.38 sq.mt each Note: The above area does not included student room's area at all floors and Kitchen area at GF.	18797.52	Sqm per month
	Semi-Permanent buildings (Ground floor) No 1, 3 & 4 SP I - 3000 sq.mt SP III- 2500 sq.mt SP IV- 2700 sq.mt	8200.00	Sqm per month
	Semi-Permanent building(Ground floor) No. II (Auditorium & Library)- 3000 sq.mt	3000.00	Sqm per month
	Hostels(G+3) B- 5,(5157.92Sqm) Hostel(G+3) B- 6(5091.38Sqm) Hostel(G+3) B-7( 5217 Sqm) Note: The above area does not included student rooms at each floor and Pantries at each floor.	15466.32	Sqm per month
	Health Centre(G+1)- 340 sq.mt	340.00	Sqm per month
	Shopping center area(ground floor)- 259 sq.mt	259.00	Sqm per month
	Guest House(G+2)- 7128.12 sq.mt	7128.12	Sqm per month
	VC Residence - 698 sq.mt	698.00	Sqm per month



	Academic Block(G+2) 4A-4 and 4A-5 (7613 sq.mt each)	15226.00	Sqm per month
	Academic Block(G+3) 4A-3 and 4A-6 (10878 sq.mt each)	21756.00	Sqm per month
	Electric Sub Station (Gym) 978 Sqmt	978.00	Sqm per month
	Administration building(G+2)	6469.64	Sqm per month
	OBC Girls Hostel (G+1)-1277.2Sqm (Note: Above area does not included the student rooms and kitchen)	1277.20	Sqm per month
	School of Education and Department of Yoga	1600	Sqm per month
	Central Instrumentation facility Building	1560	Sqm per month
	Common area of staff quarters Type B,C,D, Type II and III Type III – 281.98 sqm Type II – 147.02 sqm Type B – 1037.91 sqm Type C – 320.03 sqm Type D – 230.10 sqm Note: Quarters, inside the flats, balconies, and toilets are not covered under this service.	2017.04	Sqm per month
	Academic Building 4A-2 (G+3)	10515	Sqm per month
	6 mtr. Wide C.C. road with 2 Mtr wide tiled path and bituminous road of the campus	Functional area of the campus	per month
2	Garbage Collection within the university campus and Disposal it to outside the University campus	1 job	Per month

**TENTATIVE LIST OF CHEMICALS AND CONSUMABLES TO BE USED IN  
HOUSEKEEPING SERVICES**

S.No.	Description of Chemicals required	Tentative Qty. per month	Unit
1	Bathroom Cleaner - R1 Eureka-Klar OR Johnson Diversey - Note: Concentrate solution	25	Ltr.
2	Hard Surface Cleaner– R2 Eureka - A Marine OR Johnson Diversey Note: (Concentrate solution)	20	Ltr.
3	Glass Cleaner– R3 Eureka - Plural Plus OR Johnson Diversey Note: Concentrate solution	25	Ltr.
4	Urinal & Bowl Cleaner– R6 Eureka - WC Rein OR Johnson Diversey Note: Concentrate solution	30	Ltr.
5	Floor Polisher- Terranova Eureka – Cris OR Johnson Diversey Note: Concentrate solution	15	Ltr.
6	Floor Cleaner Eureka - Clean 6000 OR Johnson Diversey	1000	Ltr.
7	Rust Remover Spiral -R1 Eureka-Klar OR Johnson Diversey Note: Concentrate solution	35	Ltr.
8	Room Freshner- R5 Eureka-Klar OR Johnson Diversey	As per requirement	Ltr.
9	R-9 (Water spot remover) Eureka-Klar OR Johnson Diversey	As per requirement	Ltr.
10	Suma Scal D-5.2 (For sewer cleaning) Eureka-Klar OR Johnson Diversey	As per requirement	Ltr.
11	Odonil	1000	Nos.
12	Naphthalene ball	20-25	Kg
13	Nylon scrubber	10	Doz.
14	Toilet brush	30-35	Nos.
15	Bucket	As per requirement	Nos.
16	Mug	As per requirement	
17	Duster- Table, Yellow and Floor	25-30	Doz.
18	Hard broom	25-30	Nos.
19	Phool broom	50-60	Nos.
20	Compound broom	30	Nos.
21	Wipers	20	Nos.
22	Dust control	20-25	Nos.
23	Kentuki mop and refill	As per requirement	Nos.
24	MOP Dry refill	As per requirement	Nos.
25	Hand gloves	35	Pair
26	Garbage bag	As per requirement	Kg
27	Cleanzo Phenyl	800-1000	Ltr.
28	Bruss Feather	12	Nos.
29	Handwash- Dettol or Savlone or Lifebuy	350-500	Ltr.
30	Dustpan	30	Nos.

31	Insect Killer- Hit or any other reputed brand	20	Nos.
32	Spray Bottle	15	Nos.
33	Buffing pad	As per requirement	Nos.
34	Bamboo brush	As per requirement	Nos.

Note : The above list is indicative only. Any other item required for proper housekeeping will also be arranged by the agency. The agency will deposit the above in University store on monthly basis and will be issued on daily basis.

### **LIST OF MACHINERY TO BE USED**

Sl. No.	Item	Indicative quantity to be deployed
1.	Auto Scrubbing machine driver driven with traction battery version, single disc brush, maintenance cleaning of surface minimum 3000 Sqm per hour	2
2.	A powerful Single Disk Scrubber with 43 cm working width gearbox driven with minimum 15 Ltr solution tank	20
3.	Hand scrubber electrical operated of cleaning area minimum 45 Sqm per hour	8
4.	Cold Water High Pressure Jet cleaner of pressure 160 Bar with minimum 660 Ltr per hour water flow	3
5.	Road cleaning machine driver driven battery operated- Suitable for removing dust and solid dirt cleaning of PCC and Bituminous road with productivity 4000 Sqm per hour. Minimum debris hopper capacity 65 Ltrs.	1
6.	Glass Cleaning Kit	3
7.	Steam cleaner with hot water with minimum 0.70 ltr boiler capacity and boiler pressure 6 Bar	1
8.	Wringer Trolley	10

Note:

1. The above list is indicate, any other item required for proper housekeeping will also by arranged by the agency.
2. Machinery should be of reputed brand and in good working condition.
3. The above are minimum requirement and the agency should deploy additional quantity as per actual requirement/ direction of the University. Nothing will be paid extra in this account.

**PENALTIES :**

- 5.1 The Contractor shall ensure that all employees are in proper Uniform/Dress. Penalty will be imposed @ Rs 100/- per person per day, each for those not in uniforms and ID Cards. The uniform and ID Cards will be provided by the successful bidder to all the Housekeeping staff and the Supervisors at their own cost.
- 5.2 Whenever and wherever it is found that the assigned work is not performed upto the entire satisfaction of the Client, especially under the supervision of the Contractor's Supervisor, it will be brought to the notice of Contractor by the Client and if no action is taken immediately, penalty of Rs.1000/- per day per complaint will be imposed by invoking penalty clause. If contractor fails to attend the complaints upto 3 days, University shall take-up the work on the risk and cost of the contractor and if such type of complaints arisen repeatively 3 times in a month, University will take appropriate action or may terminate the contract. The Contractor has to maintain adequate number of staff as per this contract and also arrange a pool of standby Facility Management staff / supervisor.
6. The security money so deposited shall be liable to be forfeited or appropriate in the event of unsatisfactory performance of the Contractor and / or loss / damage, if any, sustained by the University on account of failure or negligence of workers deployed by the Contractor or in the event breach of the agreement by the Contractor.

**(Pest Control Services)**

**SCOPE OF SERVICES FOR PEST CONTROL:**

**General Pest Control:**

Which means eradication of Cockroaches, Mosquitoes, Flies, Lizards, General Termite, spider management, Rodent management etc. through permitted insecticides as per Government of India and WHO norms. The pest control should cover all the places like spray under the tables, chairs, Almirahs, on and around the pile of files, on wooden furniture, on false ceiling, on all staircases, on lift lobby, on all toilets drain ducts, on all pantry rooms, in all stores and any; hidden space under the furniture and should leave no space unattended. Rodent Control: Rodent controlling should be done as per orders and instructions of the University authority. Agencies must ensure that the pest control once done shall remain effective up to next pest control failing which it shall have to be done again without any cost.

- i) Residual Spraying for control of Mosquitoes, spiders etc. in the Lift Lobbies, AHU Rooms, Electrical Rooms, Basement, Toilets, Staircases, Common areas, All other Service Rooms, Substation, office space, residential spacesuit.
- ii) Larvicidal Spraying for control of Mosquito & Fly Larvae in Drains Manholes in basement, substation, STP plant, in and around the building and Common areas etc.
- iii) Rodent control for control of Rats, Mice etc. in entire building including basement, Cable Trenches, Electrical Rooms, AHU Rooms, Substation, All the shafts Rooms Etc.
- iv) Disinfestations services in and around the building.
- v) Agencies are advised to visit the place of work for assuring the nature and volume of work realistically before quoting the rates.
- vi) The pest controlling exercises are to be undertaken on fortnightly basis, preferably on Saturday/Sunday and as per the requirements.

All other services not listed in the categories pertaining to the building regarding pest control shall come under the purview of pest control. These activities shall be carried out in the entire campus buildings, as & when required but at least once in a month and a proper record maintained. The details of Buildings are as under:

S. No	Category	Qty
1	Old Hostel Buildings No.1, 2, 3 & 4 (total area 23400 sq.mt)	4 nos.
2	OBC Boys Hostel	1 No.
3	Semi-Permanent Buildings No 1, 3 & 4	3 nos.
4	Semi-Permanent building no II (Auditorium & Library) - area 3000 sq.mt	1 no.
5	New Hostels No. 5, 6 & 7	3 nos.
6	Estate Office (Presently used by CPWD & Kendriya Vidyalaya)	1 no.
7	Health Centre	1 no.
8	Guest House	1 no.
9	VC Residence	1 no.
10	Academic Block 4A-4 and 4A-5	2 nos.
11	Academic Building 4A-3 & 4A-6	2 nos.
12	Administrative Building	1 no.
13	05 Numbers Electrical Substation/Utility Buildings	5 nos.
14	Shopping Centre area (only open area & toilets )	1 no.
15	Mega Mess	1 no.
16	Yoga Building	1 no.
17	CIL Building	1 no.
18	Fitness Centre	1 no.
19	Academic Building 4A-2	01 Nos.
20	Staff Quarters Type, B, C, D, II & III only outer area of the Buildings	12Nos.

**Penalty:**

Any Call under this contract, the agency shall address the issue on site immediately within maximum 24 Hours of the email/message through any medium. In case of failure due to any unavoidable reasons/circumstances, the contractor has to address the issue within next 24 hrs with consent of the Engineer-in-charge. Failing to which, penalty of Rs.500/- per day per complaint shall be imposed against the agency & recovered from the bill. After that the complaint will not be attached/enclosed after 7 days penalty Rs.5000/- per complaint will be failing which university has right to carry out the work on the risk and cost of contractor and record double amount of expenditure incurred against the complaint. OR University may decide for the termination of the contract and forfeiture of the Performance Guarantee.

## **SH : VIII Hiring Manpower with fixed remuneration through outsourced agency at CURAJ**

### **General Terms & Conditions:**

1. The contractor should maintain all the records/ registers / documents which are necessary under various labor laws applicable to contract labors / personnel and also shops and establishment Act/Rules applicable to his/her establishment and make them available at CURAJ at all times, such as register of workmen, employment card, muster roll, register of wages, wage slips, overtime registers etc.
2. The contractor will be wholly and exclusively responsible for payment of wages to the persons engaged by him, in compliance of all the statutory obligations under all related legislations as applicable to it from time to time including Minimum Wages Act, 1948. Employees Provident Fund Act, 1952, ESI Act, 1948 etc., and CURAJ will not incur any liability for any expenditure whatsoever on the persons employed by the contractor on account of any obligation.
3. The University will reserve the right to decide and final screening of the candidates to be deployed, on the basis of their age, qualification, experience and status of post category etc. The contractor will provide sufficient number of applications / CVs for screening of the candidates for the specific position.
4. The personnel deployed will not be below the age of 18 (eighteen) years and above the age of 55 (fifty five) years.
5. The contractor will ensure deployment of suitable personnel with proper background after verification by the local police, collecting proof of identity like driving license, bank account details, previous work experience, proof of residence and recent photograph.
6. The character and antecedents of each personnel of the contractor will be got verified by the contractor before their deployment and a certification to this effect is to be submitted to the University, in the form of Affidavit.
7. The deployed manpower will not claim any benefit / compensation / absorption / regularization of services with the University under the provisions of Industrial Disputes Act., 1947 and Contract Labor (Regulation & Abolition) Act, 1970. An undertaking to this effect from the personnel engaged will be submitted by the contractor to the University.
8. The contractor will ensure proper conduct of the personnel deployed in University campus and enforce prohibition of consumption of alcoholic drinks, tobacco, smoking, loitering etc.
9. The University may ask the contractor to replace/dismiss/remove, any person or persons, employed by the contractor, who may be incompetent or improper conduct or services being not required and contractor will forthwith comply with such requirements/directions, upon receiving instructions from the University in writing or oral.
10. The contractor has to provide Photo Identity Cards to the persons employed for carrying out the work. These cards are to be constantly displayed and their loss will be reported immediately to the Contractor for replacement.
11. The contractor will provide Uniform to the earmarked manpower as decided by the University. The Uniform expenses are to be included separately in the Service

Charges and no separate claim of Uniform will be reimbursed by the University to the contractor or manpower.

12. The University will not be liable for any loss, damage, theft, burglar or robbery of any personal belongings, equipment or vehicles of the personnel, deployed by the contractor.
13. The contractor will pay the remuneration to manpower every month as fixed by the University up to the 7th day of the each following month without linking the payment to be received from the University. In case of delayed payment, the Contractor may liable to pay Rs.500/- penalty per person for each day of delay (However, University advise to pay the remuneration upto 5th of every month).

#### **Scope of Work:**

Approximate number of manpower requirement will be 51. However, the actual number of manpower may increase/ decrease as per requirement/ needs of the University. Remuneration of such manpower will be paid as decided by the University from time to time. Remuneration indicated in the table is estimated and for the purpose of comparison among the bidders.

<b>Post</b>	<b>Remuneration (Monthly Cost to the University) (in Rs.)</b>	<b>Tentative Number</b>
Section Officer	50000	01
Senior Accounted	50000	01
Nursing Officer	47500	01
Technical Assistant	39200	02
Field Supervisor	34200	01
Junior Accounted	34200	01
Laboratory Assistant	34200	02
Data Entry Operator/ Lower Division Clerk	26700	18
Driver	26700	03
Telephone Operator	26700	02
Hostel Attendant	24200	08
Kitchen Supervisor	24200	01
MTS (Multi-Tasking- Staff)	24200	10
Assistant	47500	00
Hindi Translator	47500	00
Junior Engineer	47500	00
Video Editor	39200	00
Gym Trainer	34200	00
Upper Division Clerk	34200	00



<b>Post</b>	<b>Remuneration (Monthly Cost to the University) (in Rs.)</b>	<b>Tentative Number</b>
Laboratory Attendant	24200	00
Library Attendant	24200	00
Total		51

# **SCHEDULE OF QUANTITY**

## **PART - B**

**Note:** Bidders need to simply quote rates, though this part will not be considered for deciding L1 bidder. The work under this part will be executed as per requirements of the University. University reserves the right to execute the work under this part from the L1 bidder as decided above or otherwise, as per the discretion of the Competent Authority of CU Rajasthan.

For the works / services provided under this part, the agency will be paid for the works / services provided on an actual basis only.

### **SUB HEAD – IX**

#### **SH- IX : Supply of Electrical Consumable Items at CURAJ.**

S.N O.	Description of Item	Unit	Qty.	Rate excl. GST	Amount (in Rs.)
1	CPWD DSR (E&M) 2022/Appendix-II: BASIC RATE OF MATERIAL. The bidder has to quote the rates “above / below / at par” on DSR (E&M) 2022 rates including all considering estimated cost of Rs. 5,00,000/-	L.S.			
2	2.5 sq mm, three core, FRLS PVC sheathed, workshop flexible copper cable	metre	200		
3	10.0 sq mm, four core, FRLS PVC sheathed, aluminum conductor armored cable	metre	50		
4	16.0 sq mm, four core, FRLS PVC sheathed, aluminum conductor armored cable	metre	100		
5	4.0 sq mm, three core, FRLS PVC sheathed, flexible flat submersible copper cable	metre	50		
6	6.0 sq mm, three core, FRLS PVC sheathed, flexible flat submersible copper cable	metre	50		
7	20 mm dia. ISI marked, flexible PVC conduit	metre	50		
8	25 mm dia. ISI marked, flexible PVC conduit	metre	50		
9	D.P. 25/32 amps, one way modular switch with indicator, ISI marked; Make & Model: Legrand, arteor.	each	25		
10	63 amps. ratings , TPN MCB, “C” curve, 10 KA breaking capacity	each	20		
11	16 A, three pin plug top as per IS.	each	100		
12	06 A, three pin plug top as per IS.	each	20		
13	03 way bakelite connector	each	20		
14	04 way bakelite connector	each	20		
15	2.5 mfd, 230V, 50 Hz, capacitor as per IS.	each	2000		
16	4.0 mfd, 230V, 50 Hz, capacitor as per IS.	each	10		
17	35 mfd, 230V, 50 Hz, capacitor as per IS.	each	5		
18	50 mfd, 230V, 50 Hz, capacitor as per IS.	each	5		
19	4" pvc electric round sheet	each	500		
20	10-12 W, 02 pin, 230 V, 50 Hz LED PL.	each	100		

21	02 wire, 5-30 Amp rated static energy meter with 1.0 accuracy class as per IS, suitable for 01 phase, 230 V, 50 Hz AC supply.	each	5		
22	4 wire, 10-60 Amp rated static energy meter with 1.0 accuracy class as per IS, suitable for 03 phase, 415 V, 50 Hz AC supply.	each	5		
23	Rollar of Stepped type Modular Fan regulator (2 module); Make & Model: Legrand, mylinc (100 pcs) and Legrand, arteor (400 pcs).	each	500		
24	01 phase, 230 V, 50 Hz AC, 20W rated, 4' long LED tubelight/batten as per IS.	each	1000		
25	01 phase, 230 V, 50 Hz AC, 10W rated, 2' long LED tubelight/batten as per IS.	each	500		
26	90-100 W, 230V, 50 Hz LED street light as per IS.	each	30		
27	40-50 W, 230V, 50 Hz LED street light as per IS.	each	30		
28	100 W, 230V, 50 Hz LED flood light as per IS.	each	5		
29	18W-28W, 230V, 50 Hz, 1'*1' size Panel LED light as per IS.	each	10		
30	30W-48W, 230V, 50 Hz, 2'*2' size Panel LED light as per IS.	each	50		
31	40-50W , 230V, 50 Hz garden light as per IS.	each	5		
32	12-15W, 230 V, 50 Hz, LED Surface light as per IS.	each	20		
33	06W or equivalent, 03" dia. or equivalent LED Ceiling light (square shaped) as per IS.	each	20		
34	11W or equivalent, 04" dia. or equivalent LED Ceiling light (round shaped) as per IS.	each	20		
35	14W or equivalent, 06" dia. or equivalent LED Ceiling light (round shaped) as per IS.	each	20		
36	10 W, 230V, 50 Hz wall mount oval outdoor led light as per IS.	each	10		
37	Digital time switch suitable for 1 output per phase and suitable for 01 phase, 230 V, 50 Hz AC supply, as per IS. (make: GIC/L&T/Siemens/C&S/ABB/Schneider).	each	10		
38	Fully Automatic Star-Delta Starter (FASD) as per IS with inbuilt ammeter, voltmeter & single phase preventor etc. suitable for 03 phase, 415 V, 50 Hz, AC, 15 hp rated Open well Submersible Pump (make: L&T/Siemens/C&S/ABB/Schneider).	each	2		
39	Direct-On-Line Starter as per IS with inbuilt ammeter, voltmeter & single phase preventor etc. suitable for 03 phase, 415 V, 50 Hz, AC, 7.5 hp rated Open well Submersible Pump (make: L&T/Siemens/C&S/ABB/Schneider).	each	2		
40	1000 W haligen lamp/rod suitable for 1 ph, 230V AC auditorium lights.	each	10		
41	Supply of LED Light Drivers of following specifications as per IS:				
41.1	Input Voltage=100-277 V AC, Input Current=2.0 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=42-64 V DC, Output Current=1.4 A and suitable for 220-240 V, 50-60 Hz, AC, 0.35 Amp, 85 W max rated LED Street light.	each	20		
41.2	Input Voltage=100-277 V AC, Input Current=0.8 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output	each	10		

	Voltage=44-72 V DC, Output Current=0.7 A and Suitable for 220-240 V, 50-60 Hz, AC, 0.21 Amp, 43 W max rated LED Street light.				
41.3	Input Voltage=150-264 V AC, Input Current=0.7 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=49-60 V DC, Output Current=1.4 A and Suitable for 220-240 V, 50-60 Hz, AC, 0.21 Amp, 43 W max rated LED Street light.	each	10		
41.4	Input Voltage=150-270 V AC, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=65 V DC, Output Current=0.5 A, Power=36 W and Suitable for 240 V, 50 Hz, AC, 45 W max rated LED ceiling light of 2'*2' size.	each	25		
41.5	Input Voltage=150-270 V AC, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=26.4 V DC, Output Current=1.12 A and Suitable for 240 V, 50 Hz, AC, 31 W max rated LED ceiling light of 2'*2' size.	each	20		
41.6	Input Voltage=150-270 V AC, Input Current=0.07 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=40 V DC, Output Current=0.350 A, Power=14 W and Suitable for 240 V, 50 Hz, AC False Ceiling Light.	each	25		
41.7	Input Voltage=240 V AC, Input Current=0.065 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=36 V DC, Output Current=0.33 A and Suitable for 240 V, 50 Hz, AC, 08 W Surface Light.	each	25		
41.8	Input Voltage=120-277 V AC, Input Current=0.35 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=54-107 V DC, Output Current=0.7 A and Suitable for 240 V, 50 Hz, AC Garden Light.	each	25		
41.9	Input Voltage=150-270 V AC, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=19 V DC, Output Current=0.17 A and Suitable for 240 V, 50 Hz, AC, 08 W Surface Light.	each	25		
41.10	Input Voltage=240 V AC, Input Current=0.06 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=10-14 V DC, Output Current=0.7 A, Power=13.5 W and Suitable for 240 V, 50 Hz, AC False Ceiling Light.	each	25		
	<b>Sub Total Amount excl. GST</b>				
	<b>Add GST</b>				
	<b>Sub Total Amount incl. GST (in Rs.)</b>				

## **SUB HEAD – X**

### **SH- X (a): Supply of Civil Maintenance Consumable Items at CURAJ.**

S.No.	Items	Qty	Unit	Rate	Amount
1	Providing Polyethylene water storage tank cover and suitable locking arrangement of 500 liter capacity	10	Each		
2	Providing Polyethylene water storage tank cover and suitable locking arrangement of 1000 liter capacity	100	Each		
3	Providing Polyethylene water storage tank cover and suitable locking arrangement of 1100 liter capacity	10	Each		
4	Providing Polyethylene water storage tank cover and suitable locking arrangement of 2000 liter capacity	20	Each		
5	Providing Polyethylene water storage tank cover and suitable locking arrangement of 5000 liter capacity	5	Each		
6	Providing Health Faucet of (Make: Jaugar, Modle No: ALD-CHR-573)	50	Each		
7	Providing W/C rubber Washer Black 110mm of Jaguar make	100	Each		
8	Providing of cistern PVC handle	100	Each		
9	Providing of Cistern and W/c Syphon washer 32mm	400	Each		
10	Providing and fixing Jaqure make spindle of thick nose for bib cock/piller cock/angular cock	20	Each		
11	Providing Jaqure make spindle of thin nose for bib cock/piller cock/angular cock,	20	Each		
12	Providing 100 mm sand cast Iron grating for gully trap.	50	Each		
13	Providing CPVC MAPT 15mm ,Make: Ashirwad, Astral, Finolex	10	Each		
14	Providing CPVC MABT 15mm ,Make: Ashirwad, Astral, Finolex	10	Each		
15	Providing CPVC MAPT 20mm,Make: Ashirwad, Astral, Finolex	10	Each		
16	Providing CPVC MABT 20mm ,Make: Ashirwad, Astral, Finolex	10	Each		
17	Providing CPVC MAPT 25mm , Make: Ashirwad, Astral, Finolex	10	Each		
18	Providing CPVC MABT 25mm ,Make: Ashirwad, Astral, Finolex	10	Each		
19	Providing CPVC MAPT 32mm,Make: Ashirwad, Astral, Finolex	10	Each		
20	Providing CPVC MABT 32mm,Make: Ashirwad, Astral, Finolex	10	Each		
21	Providing CPVC MAPT 40mm,Make: Ashirwad, Astral, Finolex	10	Each		
22	Providing CPVC MABT 40mm , Make: Ashirwad, Astral, Finolex	10	Each		

23	Providing CPVC MAPT 50mm , Make: Ashirwad, Astral, Finolex	10	Each		
24	Providing CPVC MABT 50mm , Make: Ashirwad, Astral, Finolex	10	Each		
25	Providing CPVC FAPT 15mm , Make: Ashirwad, Astral, Finolex	10	Each		
26	Providing CPVC FABT 15mm, Make: Ashirwad, Astral, Finolex	10	Each		
27	Providing CPVC FAPT 20mm , Make: Ashirwad, Astral, Finolex	10	Each		
28	Providing CPVC FABT 20mm, Make: Ashirwad, Astral, Finolex	10	Each		
29	Providing CPVC FAPT 25mm, Make: Ashirwad, Astral, Finolex	10	Each		
30	Providing CPVC FABT 25mm, Make: Ashirwad, Astral, Finolex	10	Each		
31	Providing CPVC FAPT 32mm , Make: Ashirwad, Astral, Finolex	10	Each		
32	Providing CPVC FABT 32mm ,Make: Ashirwad, Astral, Finolex	10	Each		
33	Providing CPVC FAPT 40mm,Make: Ashirwad, Astral, Finolex	10	Each		
34	Providing CPVC FABT 40mm ,Make: Ashirwad, Astral, Finolex	10	Each		
35	Providing CPVC FAPT 50mm ,Make: Ashirwad, Astral, Finolex	10	Each		
36	Providing CPVC FABT 50mm,Make: Ashirwad, Astral, Finolex	10	Each		
37	CPVC Valve 15mm Make: Ashirwad, Astral, Finolex	50	Each		
38	CPVC Value 20mm Make: Ashirwad, Astral, Finolex	50	Each		
39	CPVC Valve 25mm Make: Ashirwad, Astral, Finolex	50	Each		
40	CPVC Valve 32mm Make: Ashirwad, Astral, Finolex	50	Each		
41	CPVC Valve 40mm Make: Ashirwad, Astral, Finolex	30	Each		
42	CPVC Valve 50mm Make: Ashirwad, Astral, Finolex	30	Each		
43	CPVC End Cap 15mm Make: Ashirwad, Astral, Finolex	50	Each		
44	CPVC End Cap 20mm Make: Ashirwad, Astral, Finolex	50	Each		
45	CPVC End Cap 25mm Make: Ashirwad, Astral, Finolex	50	Each		
46	CPVC End Cap 32mm Make: Ashirwad, Astral, Finolex	50	Each		

47	CPVC End Cap 40mm Make: Ashirwad, Astral, Finolex	30	Each		
48	CPVC End Cap 50mm Make: Ashirwad, Astral, Finolex	10	Each		
49	CPVC End Cap 110mm Make: Ashirwad, Astral, Finolex	10	Each		
50	CPVC Elbow 15mm Make: Ashirwad, Astral, Finolex	50	Each		
51	CPVC Elbow 20mm Make: Ashirwad, Astral, Finolex	50	Each		
52	CPVC Elbow 25mm Make: Ashirwad, Astral, Finolex	50	Each		
53	CPVC Elbow 32mm Make: Ashirwad, Astral, Finolex	50	Each		
54	CPVC Elbow 40mm Make: Ashirwad, Astral, Finolex	30	Each		
55	CPVC Elbow 50mm Make: Ashirwad, Astral, Finolex	10	Each		
56	CPVC Elbow 110mm Make: Ashirwad, Astral, Finolex	10	Each		
57	CPVC Tee 15mm Make: Ashirwad, Astral, Finolex	50	Each		
58	CPVC Tee 20mm Make: Ashirwad, Astral, Finolex	50	Each		
59	CPVC Tee 25mm Make: Ashirwad, Astral, Finolex	50	Each		
60	CPVC Tee 32mm Make: Ashirwad, Astral, Finolex	50	Each		
61	CPVC Tee 40mm Make: Ashirwad, Astral, Finolex	30	Each		
62	CPVC Tee 50mm Make: Ashirwad, Astral, Finolex	10	Each		
63	CPVC Tee 110mm Make: Ashirwad, Astral, Finolex	10	Each		
64	CPVC Tee 20x15mm Make: Ashirwad, Astral, Finolex	50	Each		
65	CPVC Tee 25x20mm Make: Ashirwad, Astral, Finolex	50	Each		
66	CPVC Tee 32x25mm Make: Ashirwad, Astral, Finolex	50	Each		
67	CPVC Tee 40x32mm Make: Ashirwad, Astral, Finolex	10	Each		
68	CPVC Tee 50x40mm Make: Ashirwad, Astral, Finolex	10	Each		
69	CPVC Socket 15mm Make: Ashirwad, Astral, Finolex	50	Each		
70	CPVC Socket 20mm Make: Ashirwad, Astral, Finolex	50	Each		
71	CPVC Socket 25mm Make: Ashirwad, Astral, Finolex	50	Each		

72	CPVC Socket 32mm Make: Ashirwad, Astral, Finolex	50	Each		
73	CPVC Socket 40mm Make: Ashirwad, Astral, Finolex	30	Each		
74	CPVC Socket 50mm Make: Ashirwad, Astral, Finolex	10	Each		
75	CPVC Socket 110mm Make: Ashirwad, Astral, Finolex	10	Each		
76	CPVC Elbow 15X15mm Brass Make: Ashirwad, Astral, Finolex	50	Each		
77	CPVC Elbow 15X20mm Brass Make: Ashirwad, Astral, Finolex	50	Each		
78	CPVC Elbow 20mm Brass Make: Ashirwad, Astral, Finolex	50	Each		
79	CPVC Elbow 25mm Brass Make: Ashirwad, Astral, Finolex	50	Each		
80	CPVC Tee 15x15mm Brass Make: Ashirwad, Astral, Finolex	50	Each		
81	CPVC Tee 15x20mm Brass Make: Ashirwad, Astral, Finolex	50	Each		
82	CPVC Tee 20mm Brass Make: Ashirwad, Astral, Finolex	50	Each		
83	CPVC Tee 25mm Brass Make: Ashirwad, Astral, Finolex	50	Each		
84	CPVC Union 15mm Make: Ashirwad, Astral, Finolex	50	Each		
85	CPVC Union 20mm Make: Ashirwad, Astral, Finolex	50	Each		
86	CPVC Union 25mm Make: Ashirwad, Astral, Finolex	50	Each		
87	CPVC Union 32mm Make: Ashirwad, Astral, Finolex	50	Each		
88	CPVC Union 40mm Make: Ashirwad, Astral, Finolex	30	Each		
89	CPVC Union 50mm Make: Ashirwad, Astral, Finolex	10	Each		
90	CPVC Reducer 15x20mm Make: Ashirwad, Astral, Finolex	50	Each		
91	CPVC Reducer 20x25mm Make: Ashirwad, Astral, Finolex	50	Each		
92	CPVC Reducer 25x32mm Make: Ashirwad, Astral, Finolex	50	Each		
93	CPVC Reducer 32x40mm Make: Ashirwad, Astral, Finolex	50	Each		
94	CPVC Reducer 40x50mm Make: Ashirwad, Astral, Finolex	30	Each		
95	CPVC Reducer 50x110mm Make: Ashirwad, Astral, Finolex	10	Each		
96	CPVC Elbow 15x20mm Make: Ashirwad, Astral, Finolex	50	Each		
97	CPVC Elbow 20mx25m Make: Ashirwad, Astral, Finolex	50	Each		
98	CPVC Elbow 25x32mm Make: Ashirwad, Astral, Finolex	50	Each		
99	CPVC Elbow 32x40mm Make: Ashirwad, Astral, Finolex	50	Each		



100	CPVC Elbow 40x50mm Make: Ashirwad, Astral, Finolex	30	Each		
101	CPVC Elbow 50x110mm Make: Ashirwad, Astral, Finolex	30	Each		
102	CPVC Elbow 45 degree 20mm Make: Ashirwad, Astral, Finolex	10	Each		
103	CPVC Elbow 45 degree 25mm Make: Ashirwad, Astral, Finolex	10	Each		
104	CPVC Elbow 45 degree 32mm Make: Ashirwad, Astral, Finolex	10	Each		
105	CPVC Elbow 45 degree 40mm Make: Ashirwad, Astral, Finolex	10	Each		
106	CPVC Elbow 45 degree 50mm Make: Ashirwad, Astral, Finolex	10	Each		
107	CPVC Elbow 45 degree 110mm Make: Ashirwad, Astral, Finolex	10	Each		
108	CPVC Tank Connection 15mm Make: Ashirwad, Astral, Finolex	50	Each		
109	CPVC Connection 20mm Make: Ashirwad, Astral, Finolex	50	Each		
110	CPVC Connnection 25mm Make: Ashirwad, Astral, Finolex	50	Each		
111	CPVC Connection 32mm Make: Ashirwad, Astral, Finolex	50	Each		
112	CPVC Connection 40mm Make: Ashirwad, Astral, Finolex	30	Each		
113	CPVC Connnection 50mm Make: Ashirwad, Astral, Finolex	10	Each		
114	CPVC U-Clip 15mm Make: Ashirwad, Astral, Finolex	100	Each		
115	CPVC U-Clip 20mm Make: Ashirwad, Astral, Finolex	100	Each		
116	CPVC U-Clip 25mm Make: Ashirwad, Astral, Finolex	100	Each		
117	CPVC U-Clip 32mm Make: Ashirwad, Astral, Finolex	100	Each		
118	CPVC U-Clip 40mm Make: Ashirwad, Astral, Finolex	100	Each		
119	CPVC U-Clip 50mm Make: Ashirwad, Astral, Finolex	30	Each		
120	CPVC U-Clip 110mm Make: Ashirwad, Astral, Finolex	50	Each		
121	PVC Elbow 15mm Make: Kisan or equivalent	20	Each		
122	PVC Elbow 20mm Make: Kisan or equivalent	20	Each		
123	PVC Elbow 25mm Make: Kisan or equivalent	20	Each		
124	PVC Elbow 40mm Make: Kisan or equivalent	20	Each		
125	PVC Elbow 50mm Make: Kisan or equivalent	20	Each		
126	PVC Elbow 90mm Make: Kisan or equivalent	20	Each		
127	PVC Tee 15mm Make: Kisan or equivalent	20	Each		
128	PVC Tee 20mm Make: Kisan or equivalent	20	Each		
129	PVC Tee 25mm Make: Kisan or equivalent	20	Each		
130	PVC Tee 40mm Make: Kisan or equivalent	20	Each		
131	PVC Tee 50mm Make: Kisan or equivalent	20	Each		
132	PVC Tee 90mm Make: Kisan or equivalent	20	Each		
133	PVC Socket 15mm Make: Kisan or equivalent	20	Each		
134	PVC Socket 20mm Make: Kisan or equivalent	20	Each		
135	PVC Socket 25mm Make: Kisan or equivalent	20	Each		
136	PVC Socket 40mm Make: Kisan or equivalent	20	Each		
137	PVC Socket 50mm Make: Kisan or equivalent	20	Each		

138	PVC Socket 110mm Make: Kisan or equivalent	20	Each		
139	GI Eblow 15mm Make: UCO, Unik	10	Each		
140	GI Eblow 20mm Make: UCO, Unik	10	Each		
141	GI Eblow 25mm Make: UCO, Unik	10	Each		
142	GI Eblow 32mm Make: UCO, Unik	10	Each		
143	GI Eblow 40mm Make: UCO, Unik	10	Each		
144	GI Eblow 50mm Make: UCO, Unik	10	Each		
145	GI Eblow 80mm Make: UCO, Unik	10	Each		
146	GI Tee 15mm Make: UCO, Unik	10	Each		
147	GI Tee 20mm Make: UCO, Unik	10	Each		
148	GI Tee 25mm Make: UCO, Unik	10	Each		
149	GI Tee 32mm Make: UCO, Unik	10	Each		
150	GI Tee 40mm Make: UCO, Unik	10	Each		
151	GI Tee 50mm Make: UCO, Unik	10	Each		
152	GI Tee 80mm Make: UCO, Unik	10	Each		
153	GI Socket 15mm Make: UCO, Unik	10	Each		
154	GI Socket 20mm Make: UCO, Unik	10	Each		
155	GI Socket 25mm Make: UCO, Unik	10	Each		
156	GI Socket 32mm Make: UCO, Unik	10	Each		
157	GI Socket 40mm Make: UCO, Unik	10	Each		
158	GI Socket 50mm Make: UCO, Unik	10	Each		
159	GI Socket 80mm Make: UCO, Unik	10	Each		
160	GI Union 15mm Make: UCO, Unik	10	Each		
161	GI Union 20mm Make: UCO, Unik	10	Each		
162	GI Union 25mm Make: UCO, Unik	10	Each		
163	GI Union 32mm Make: UCO, Unik	10	Each		
164	GI Union 40mm Make: UCO, Unik	10	Each		
165	GI Union 50mm Make: UCO, Unik	10	Each		
166	GI Union 80mm Make: UCO, Unik	10	Each		
167	GI Nipple 15mm 2"	10	Each		
168	GI Nipple 15mm 3"	10	Each		
169	GI Nipple 15mm 4"	10	Each		
170	GI Nipple 15mm 6"	10	Each		
171	GI Nipple 15mm 8"	10	Each		
172	GI Nipple 15mm 9"	10	Each		
173	GI Nipple 15mm 12"	10	Each		
174	GI Nipple 15mm 18"	10	Each		
175	GI Nipple 20mm 2"	10	Each		
176	GI Nipple 20mm 3"	10	Each		
177	GI Nipple 20mm 4"	10	Each		
178	GI Nipple 20mm 6"	10	Each		
179	GI Nipple 20mm 8"	10	Each		
180	GI Nipple 20mm 9"	10	Each		
181	GI Nipple 20mm 12"	10	Each		
182	GI Nipple 20mm 18"	10	Each		
183	GI Nipple 25mm 2"	10	Each		
184	GI Nipple 25mm 3"	10	Each		
185	GI Nipple 25mm 4"	10	Each		
186	GI Nipple 25mm 6"	10	Each		

187	GI Nipple 25mm 8"	10	Each		
188	GI Nipple 25mm 9"	10	Each		
189	GI Nipple 25mm 12"	10	Each		
190	GI Nipple 25mm 18"	10	Each		
191	GI Nipple 32mm 2"	10	Each		
192	GI Nipple 32mm 3"	10	Each		
193	GI Nipple 32mm 4"	10	Each		
194	GI Nipple 32mm 6"	10	Each		
195	GI Nipple 32mm 8"	10	Each		
196	GI Nipple 32mm 9"	10	Each		
197	GI Nipple 32mm 12"	10	Each		
198	GI Nipple 32mm 18"	10	Each		
199	GI Nipple 40mm 2"	10	Each		
200	GI Nipple 40mm 3"	10	Each		
201	GI Nipple 40mm 4"	10	Each		
202	GI Nipple 40mm 6"	10	Each		
203	GI Nipple 40mm 8"	10	Each		
204	GI Nipple 40mm 9"	10	Each		
205	GI Nipple 40mm 12"	10	Each		
206	GI Nipple 40mm 18"	10	Each		
207	GI Nipple 50mm 2"	10	Each		
208	GI Nipple 50mm 3"	10	Each		
209	GI Nipple 50mm 4"	10	Each		
210	GI Nipple 50mm 6"	10	Each		
211	GI Nipple 50mm 8"	10	Each		
212	GI Nipple 50mm 9"	10	Each		
213	GI Nipple 50mm 12"	10	Each		
214	GI Nipple 50mm 18"	10	Each		
215	GI Nipple 80mm 2"	10	Each		
216	GI Nipple 80mm 3"	10	Each		
217	GI Nipple 80mm 4"	10	Each		
218	GI Nipple 80mm 6"	5	Each		
219	GI Nipple 80mm 8"	5	Each		
220	GI Nipple 80mm 9"	5	Each		
221	GI Nipple 80mm 12"	5	Each		
222	GI Nipple 80mm 18"	5	Each		
223	GI U-Clip 15mm	50	Each		
224	GI U-Clip 20mm	50	Each		
225	GI U-Clip 25mm	50	Each		
226	GI U-Clip 32mm	50	Each		
227	GI U-Clip 40mm	50	Each		
228	GI U-Clip 50mm	50	Each		
229	GI U-Clip 80mm	50	Each		
230	Fastner 16mm 6"	300	Each		
231	SS 100x8mm Screw(Each 500No)	5	Packet		
232	SS 25x6mm Screw(Each 5000No)	5	Packet		
233	SS 25x8mm Screw(Each 5000No)	5	Packet		
234	SS 19x6mm Screw(Each 5000no)	5	Packet		
235	SS 19x8mm Screw(Each 2500No)	5	Packet		

236	SS 75x6mm Screw(Each2500No)	5	Packet		
237	SS 75x8mm Screw(Each2500No)	5	Packet		
238	SS 60x6mm Screw(Each 1250No)	5	Packet		
239	SS 60x8mm Screw(Each 1250No)	5	Packet		
240	SS 32x6mm Screw(Each 1250No)	5	Packet		
241	SS 32x8mm Screw(Each 1250No)	5	Packet		
242	Plastic Gitti-30mm	20	Packet		
243	Plastic Gitti-35mm	20	Packet		
244	Plastic Gitti-38mm	20	Packet		
245	Plug Bolt 3"	300	Each		
246	Hinge Bolt 2"	10	Each		
247	L- Clip 1x1	10	Packet		
248	L- Clip 2x2	10	Packet		
249	L- Clip 3x3	10	Packet		
250	Nail-12x1	5	Kg		
251	Nail-12x1.5	5	Kg		
252	Nail-12x2	5	Kg		
253	Nail-12x3	5	Kg		
254	Nail-12x4	5	Kg		
255	Nail-14x1	5	Kg		
256	Nail-14x1.5	5	Kg		
257	Nail-14x2	5	Kg		
258	Shower <b>(Make: Jaugar, Modle No: OHS-CHR-1759)</b>	5	each		
259	Bottel Trap <b>(Make: Jaugar, Modle No: ALD-CHR-769)</b>	10	each		
260	Wall Hung With Jet <b>(Make: Jaugar, Modle No: SLS-WHT-6951J)</b>	2	each		
261	Wall Hung <b>(Make: Jaugar, Modle No: SLS-WHM-6953)</b>	2	each		
262	Two Way Bib Cock <b>(Make: Jaugar, Modle No: VGP-CHR-81041)</b>	5	each		
263	Health Faucest <b>(Make: Jaugar, Modle No: ALD-CHR-573)</b>	10	each		
264	Two Way Angle Value <b>(Make: Jaugar, Modle No: 526A)</b>	10	each		
265	Angle Value <b>(Make: Jaugar, Modle No: ARI-CHR-39053)</b>	10	each		
266	Sink Mixer <b>(Make: Jaugar, Modle No: VGP-CHR-81165)</b>	5	each		
267	Towel Ring <b>(Make: Jaugar, Modle No: KUP-CHR-35721)</b>	5	each		
<b>Total Amount including GST etc. (in Rs.)</b>					

**SH- X (b): Supply of Civil Maintenance Consumable Items (DSR Items) at CURAJ.**

S.NO.	Description of Item	Unit	Qty.	Rate excl. GST	Amount (in Rs.)
1	CPWD DSR (Civil Works) 2023/ BASIC RATE OF MATERIAL. The bidder has to quote the rates “above / below / at par” on DSR (civil works) 2023 rates including all considering estimated cost of Rs. 5,00,000/-	L.S.			

**SH- X( C) : Misc. Civil Maintenance works at CURAJ.**

S.No.	Description of items	Qty	Unit	Rate	Amount
1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in-Charge:				
1.1	All kinds of soil	1000	sqm		
2	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
2.1	All kinds of soil	100	cum		
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
3.1	All kinds of soil.	100	cum		
4	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
4.1	All kinds of soil				
4.1.1	Pipes, cables etc, not exceeding 80 mm dia.	20	metre		
4.1.2	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300 mm dia	20	metre		
4.1.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	20	metre		
5	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	20	cum		
6	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	200	cum		
7	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
7.1	All kinds of soil	1000	sqm		

8	Excavating holes more than 0.10 cum & upto 0.5 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil, as directed within a lead of 50 m and lift upto 1.5 m.				
8.1	All kinds of soil	20	each		
9	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	100	sqm		
10	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	100	sqm		
11	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering – All work up to plinth level :				
11.1	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources: 4 graded stone aggregate 20 mm nominal size derived from natural sources).	20	cum		
11.2	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources).	20	cum		
12	Centering and shuttering including strutting, propping etc. and removal of form work for :				
12.1	Foundations, footings, bases for columns	50	sqm		
13	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	30	sqm		
14	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand derived from natural sources): 4 graded stone aggregate 12.5mm nominal size derived from natural sources)	30	sqm		
15	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, galvanize and reinforcement- All work up to plinth level :				
15.1	1:1.5:3 (1 cement: 1.5 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).	5	cum		
16	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement				
16.1	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	5	cum		

17	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement: 1.5 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).	5	cum		
18	Centering and shuttering including strutting, propping etc. and removal of form for				
18.1	Foundations, footings, bases of columns, etc. for mass concrete	50	sqm		
18.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	10	sqm		
18.3	Columns, Pillars, Piers, Abutments, Posts and Struts	10	sqm		
19	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
19.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	50	kg		
20	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
20.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	10	cum		
20.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	20	cum		
21	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
21.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	5	cum		
21.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	10	cum		
22	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :				
22.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	10	cum		
23	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
23.1	Second class teak wood	1	cum		
24	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1 <sup>st</sup> class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
24.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	10	sqm		
24.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	10	sqm		
25	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and				



	necessary screws :				
25.1	35 mm thick shutters				
25.1.1	With ISI marked stainless steel butt hinges of required size				
25.1.1.2	Second class teak wood	20	sqm		
25.2	30 mm thick shutters				
25.2.1	With ISI marked stainless steel butt hinges of required size				
25.2.1.1	Second class teak wood	20	sqm		
26	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :				
26.1	2 <sup>nd</sup> class teak wood				
26.1.1	50x12 mm	100	metre		
26.1.2	50 x 20 mm	100	metre		
27	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
27.1	Fixed to steel windows by welding	20	kg		
27.2	Fixed to openings /wooden frames with rawl plugs screws etc.	20	kg		
28	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.				
28.1	With 2 <sup>nd</sup> class teak wood beading 62X19 mm	10	sqm		
28.2	With 12 mm mild steel U beading	10	sqm		
29	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	20	each		
30	Providing and fixing ISI marked 73alvaniz M.S. pressed butt hinges with necessary screws etc. complete.				
30.1	125x65x2.12 mm	30	each		
30.2	100x58x1.90 mm	50	each		
30.3	75x47x1.70 mm	10	each		
30.3	50x37x1.50 mm	10	each		
31	Providing and fixing ISI marked 73alvaniz M.S. sliding door bolts with nuts and screws etc. complete :				
31.1	300x16 mm	50	each		
31.2	250x16 mm	30	each		
32	Providing and fixing Isi marked 73alvaniz M.S. door latches conforming to IS:5930 with screws etc. complete :				
32.1	300x20x6 mm	50	each		
32.2	250x20x6 mm	50	each		
33	Providing and fixing ISI marked 85x42 mm 73alvaniz M.S. pull bolt lock conforming to IS : 7534 with necessary screws bolts, nut and washers etc. complete.	10	each		
34	Providing and fixing ISI marked 73alvaniz M.S. handles conforming to IS:4992 with necessary screws etc. complete :				
34.1	125 mm	20	each		
34.2	100 mm	20	each		
34.3	75 mm	10	each		
35	Providing and fixing 73alvaniz M.S. hasp and staple (safety				

	type) conforming to IS : 363 with necessary screws etc. complete :				
35.1	150 mm	5	each		
35.2	115 mm	10	each		
35.3	90 mm	5	each		
36	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :				
36.1	125x64x1.90 mm	100	each		
36.2	100X58X1.90 mm	100	each		
36.3	75x47x1.80 mm	50	each		
36.4	50x37x1.50 mm	20	each		
37	Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :				
37.1	125x64x2.50 mm	10	each		
37.2	100x60x2.50 mm	50	each		
37.3	75x50x2.50 mm	10	each		
38	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
38.1	250x10 mm	5	each		
38.2	200x10 mm	5	each		
38.3	150x10 mm	5	each		
38.4	100x10 mm	5	each		
39	Providing and fixing bright finished brass door latch with necessary screws etc. complete :				
39.1	300x16x5 mm	2	each		
39.2	250x16x5 mm	2	each		
40	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	1	each		
41	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.				
41.1	40 mm	5	each		
41.2	50 mm	5	each		
42	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	10	each		
43	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with Isi, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	10	each		
44	Providing and fixing aluminium sliding door bolts, ISI marked 74alvaniz (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
44.1	300x16 mm	10	each		
44.2	250x16 mm	10	each		
45	Providing and fixing aluminium tower bolts, ISI marked, 74alvaniz (anodic coating not less than grade AC 10 as per				

	IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
45.1	300x10 mm	10	each		
45.2	250x10 mm	10	each		
45.3	200x10 mm	5	each		
45.4	150x10 mm	5	each		
45.5	100x10 mm	5	each		
46	Providing and fixing aluminium handles, ISI marked, 75alvaniz (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
46.1	125 mm	10	each		
46.2	100 mm	10	each		
46.3	75 mm	10	each		
47	Providing and fixing aluminium hanging floor door stopper, ISI marked, 75alvaniz (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
47.1	Single rubber stopper	20	each		
47.2	Twin rubber stopper	100	each		
48	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of 75alvaniz (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.	20	each		
49	Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc. complete as per directions of Engineer- in-charge.	20	one set		
50	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	20	metre		
51	Providing and fixing to existing door frames.				
51.1	30 mm thick Glass Fibre Reinforced Plastic (FRP) 75alvani door shutter of required colour and approved brand and manufacture, made with fire – retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	10	sqm		

51.2	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table – 3 of IS: 14856, complete as per direction of Engineer-in-charge.	10	sqm		
53	Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/top hung uPVC windows, of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-in-charge.				
53.1	200 x 19 x 1.9 mm	10	each		
53.2	250 x 19 x 1.9 mm	10	each		
53.3	300 x 19 x 1.9 mm	10	each		
53.4	350 x 19 x 1.9 mm	5	each		
53.5	400 x 19 x 1.9 mm	5	each		
54	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				
54.1	125 mm	100	each		
54.2	100mm	100	each		
54.3	75 mm	20	each		
55	Providing and fixing stainless steel soft closing spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer-in-charge.	10	Each		
56	Providing and fixing stainless steel soft closing heavy type telescopic drawer channels of approved make 500 mm long with screws etc. complete as per directions of Engineer- in-charge.	10	one set		
57	Providing and fixing 2mm thick 16 to 19mm wide PVC edge binding tape of approved quality for cupboard/wardrobe shutters including necessary synthetic resin hot pressed to edges on binding machine etc. complete as per directions of Engineer- in-charge.	50	Mtr.		
58	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.				
58.1	Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides	20	sqm		
58.2	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	20	sqm		
59	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
59.1	Light shade pigment using white cement	20	sqm		

59.2	Dark shade pigment using ordinary cement	500	sqm		
59.3	Ordinary cement without any pigment	20	sqm		
60	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.				
60.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
60.2	Acid and alkali resistant tile	20	sqm		
61	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with :				
61.1	Makrana white second quality	10	sqm		
61.2	Raj Nagar plain	10	sqm		
61.3	Udaipur green marble	10	sqm		
62	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
62.1	25 mm thick	20	sqm		
63	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints finished flush.				
63.1	Red sand stone	20	sqm		
63.2	White sand stone	20	sqm		
64	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
64.1	Size of Tile 600x600 mm	50	sqm		
65	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.				
65.1	Size of Tile 600x600 mm	200	sqm		
66	Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.				
66.1	18 mm thick Italian Marble stone slab, Perlato, Rosso	50	sqm		

	78alvan, Fire Red or Dark Emperadore etc.				
67	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.				
67.1	Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	10	sqm		
68	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	100	sqm		
69	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1 <sup>st</sup> quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	100	sqm		
70	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	50	sqm		
71	Grouting the joints of flooring tiles of toilets having joints upto 3 mm width, using tile grout of desired shade , including, removing loose grout compound/ filling / grouting and finishing complete as per direction of Engineer-in-charge.				
71.1	Size of Tile 300x300 mm	200	sqm		
72	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
72.1	In 75x75 mm deep chase	100	metre		
73	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	5	each		
74	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making				

	good the walls etc. :				
74.1	100 mm diameter	20	each		
75	Providing and fixing precoated 79alvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	50	sqm		
76	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with 79alvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.				
76.1	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	50	sqm		

77	Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.	10	sqm		
78	12 mm cement plaster of mix :				
78.1	1:4 (1 cement: 4 fine sand)	10	sqm		
78.2	1:6 (1 cement: 6 fine sand)	10	sqm		
79	15 mm cement plaster on the rough side of single or half brick wall of mix :				
79.1	1:4 (1 cement: 4 fine sand)	10	sqm		
79.2	1:6 (1 cement: 6 fine sand)	10	sqm		
80	12 mm cement plaster finished with a floating coat of neat cement of mix :				
80.1	1:3 (1 cement: 3 fine sand)	20	sqm		
80.2	1:4 (1 cement: 4 fine sand)	40	sqm		
81	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	20	sqm		
83	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
83.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	200	sqm		
84	Painting (two or more coats) on rain water, soil waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer on new work.				
84.1	100 mm diameter pipes	1000	metre		
85	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.				
85.1	One Coats	500	Sqm		
85.2	Two coats	500	sqm		
86	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
86.1	Two or more coats on new work	2500	sqm		
87	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	5000	sqm		
88	Distempering with 1 <sup>st</sup> quality acrylic distember (Ready mix) having VOC content less than 50 grams/ litre of approved brand and manufacture to give an even shade :				
88.1	Old work (one or more coats)	5000	sqm		



89	Painting (one or more coats) on rain water, soil waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work :				
89.1	100 mm diameter pipes	50	metre		
91	Painting with aluminium paint of approved brand and manufacture to give an even shade:				
91.1	One or more coats on old work	500	sqm		
93	Finishing walls with Acrylic Smooth exterior paint of required shade :				
93.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	2500	sqm		
94	Polishing in high gloss/matt finish melamine clear polish on wood work in required color/wooden shade texture with following process in the sequence as detailed below:				
94.1	1.The surface to be polished is rubbed with sand paper 80/120 no. and then with sand paper of 160/180 nos. 2.Applying two coats of sealer with spray gun and allowing sufficient drying time for 1 <sup>st</sup> coat and 2 <sup>nd</sup> coat is allowed to dry for 8 to 12 hrs. 3.On drying of sealer coat, wet rubbing with emery cloth of finer grading with ample water to remove excess sealer layer and make the surface further smooth after this wet rubbing, then surface is applied with special grade melamine fillers to fill all the small and big holes/grooves etc. Filler coat to be allowed to dry for 4 to 6 hrs on which again a light wet rubbing is done this surface is further allowed to dry for 12 hrs. 4. On this, 1 <sup>st</sup> coat of melamine polish is applied with spray gun using melamine clear polish and melamine thinner in required proportion. This 1 <sup>st</sup> coat is allowed to dry for 24 hrs then this dry surface is again fine wet rubbed smooth, which is further allowed to dry for 12 hrs. The final melamine polish is applied with compressor pressure spray gun using melamine clear polish and melamine thinner mixed in required proportion complete as per direction of Engineer-in-Charge. (Final coat to be done in 1 or 2 layers without gap of time.)	100	Sqm		
95	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
95.1	With cement mortar 1:4 (1 cement : 4 fine sand)	500	sqm		
95.2	With cement mortar 1:4 (1cement: 4 coarse sand)	500	sqm		
96	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal				

	of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
96.1	Door chowkhats	10	each		
96.2	Window chowkhats	10	each		
97	Fixing chowkhat in existing opening in brick/ RCC wall with dash fasteners/Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhats), including Cost of dash fasteners/ chemical fastener.	10	each		
98	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge.				
98.1	For door/ window/ clerestory window	10	sqm		
99	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:				
99.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	50	sqm		
99.2	Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	20	sqm		
100	Renewing glass panes, with wooden fillets wherever necessary:				
100.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	20	sqm		
101.2	Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	20	sqm		
102	Renewing glass panes and refixing existing wooden fillets:				
102.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	20	sqm		
102.2	Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	20	sqm		
103	Supplying and fixing new wooden fillets wherever necessary:				
103.1	2 <sup>nd</sup> class teak wood fillets	20	metre		
104	Renewal of old putty of glass panes (length)	50	metre		
105	Refixing old glass panes with putty and nails	50	sqm		
106	Fixing old glass panes with wooden fillets (excluding cost of fillets)	50	sqm		
107	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.	10	each		
108	Taking out wind ties from roof including cutting out rusted bolts, nuts etc. and removing materials to any distance within compound and stacking.	20	kg		
109	Fixing of old wind tie with new fittings including painting two or more coats with anticorrosive bitumastic paint of approved brand & manufacturer over and including	200	metre		

	priming coat of ready mixed zinc chromate yellow primer of approved brand.				
110	Renewing bottom rail and/or top runner of collapsible gate including making good all damages and applying priming coat of zinc chromate yellow primer of approved brand and manufacturer.	50	kg		
111	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	100	kilo litre		
112	Providing and fixing M.S. round or square bars with M.S. flats at required spacing in wooden frames of windows and clerestory windows.	20	kg		
113	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube 83alvani, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.	100	sqm		
114	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge.	1000	sqm		
115	Cleaning of terrace/loft water storage tank (inside surface area) upto 5000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	95320 0	litre		
116	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	50	each		

117	Cleaning of choked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm	100	metre		
118	Cleaning of under ground sump, Over Head R.C.C. Tank ( independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- (i)Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.	6910	sqm		
119	Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in-charge.	10	each		
120	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge.				
120.1	Long pattern W.C Pan of size 580x440 mm	5	each		
120.2	Orissa pattern W.C Pan of size 580x440 mm	5	each		
121	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.	5	each		
122	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.	5	each		
123	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	10	sqm		
124	Dismantling 15 to 50 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineer-in-Charge.	100	metre		
125	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	10	each		

126	Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2 <sup>nd</sup> , 4 <sup>th</sup> & 6 <sup>th</sup> courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3 <sup>rd</sup> and 5 <sup>th</sup> layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7 <sup>th</sup> , the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).	50	sqm		
127	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer – in – charge.				
127.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	5	cum		
127.1	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	5	cum		
128	Demolishing brick/CLC block work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
128.1	In cement mortar	20	cum		
129	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (stacks of cleaned bricks shall be measured):				
129.1	From brick work in cement mortar	1000	1000 Nos		
130	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
130.1	Of area 3 sq. metres and below	3	each		
130.2	Of area beyond 3 sq. metres	2	each		
131	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :				
131.1	Of area 3 sq. metres and below	3	each		
131.2	Of area beyond 3 sq. metres	2	each		
132	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :				
132.1	15 mm to 40 mm nominal bore	50	metre		
132.2	Above 40 mm nominal bore	50	metre		
133	Taking out C.I. cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of	20	each		

	useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.				
134	Taking out C.I. cover with frame from R.C.C. top slab of inspection chambers of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.	10	each		
135	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	50	each		
136	Dismantling of C.I. sluice valve including stacking of useful materials within a lead of 50 metres				
136	Up to 150 mm diameter	1	each		
136.1	Above 150 mm diameter	1	each		
137	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	100	sqm		
138	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	50	sqm		
139	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	50	cum		
140	Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.				
140.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	100	metre		
141	Painting runway/taxi track/apron marking with adequate nos of coats to give uniform finish with road marking paint of superior make as approved by the Engineer-in-charge, i/c cleaning the surface of ail dirt, scales, oil, grease and other foreign material etc. and lining out complete.				
141.1	New work (Two or more coats)	50	sqm		
141.2	Old work (One or more coats)	50	sqm		
142	Painting road surface marking with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.				
142.1	New work (Two or more coats)	50	sqm		
142.2	Old work (One or more coats)	50	sqm		

145	<p>Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretite ) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degrees to base .The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4 : 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.</p>	50	each		
146	<p>Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective sheeting conforming to type – III of ASTM-D-4956-01 as approved by Engineer-in-charge, letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D-4956-01 and fixing the same to the plate of structural frame work by means of suitable sized aluminium alloys, rivets or bolts &amp; nuts @ 300 mm centre to centre all along the periphery as well as in two vertical rows along with theft resistant measures, including the cost of painting with two or more coats of epoxy paint in grey colour on the back side of aluminium sheet including appropriate priming coat. The rate includes the cost of rounding off the corners, lowering down the structural frame work from the gantry, fixing and erecting the same in position all complete as per drawings, specification and direction of the engineer-in-charge.(Structural frame work including M.S. plate to be provided separately. Rectangular area of the sheet only shall be measured for payment).</p>				
146.1	Overhead informatory road signage	20	sqm		
147	<p>Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).</p>	10	cum		
148	<p>Taking out existing kerb stones of all types from footpath/ central verge, including removal of mortar etc., disposal of unserviceable material to the dumping ground, for which</p>	50	metre		

	payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.				
149	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	100	sqm		
150	Laying old cement 88alvaniz interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost).	100	sqm		
151	Laying at or near ground level old kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer-in-charge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost)	50	metre		
152	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	50	sqm		
153	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. Complete all as per direction of Engineer-in-Charge.				
153.1	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	50	sqm		



154	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	50	sqm		
155	Providing and fixing white vitreous china water closet squatting pan (Indian type) :				
155.1	Orissa pattern W.C. pan of size 580x440 mm	5	each		
156	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer – in – charge.	100	each		
157	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.				
157.1	10 litre capacity – White	50	each		
158	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.(Make: Jaugar, Modle No: ALD-CHR-769)	20	each		
159	Providing and fixing white vitreous china laboratory sink including making all connections excluding cost of fittings :				
159.1	Size 600x450x200 mm	2	each		
160	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
160.1	Flexible pipe				
160.2	32 mm dia	100	each		
160.3	40 mm dia	10	each		
161	Providing and fixing 100 mm sand cast Iron grating for gully trap.	20	each		
162	Providing and fixing in position 25 mm diameter mosquito proof coupling of approved municipal design.	20	each		
163	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	50	each		
164	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
164	Rectangular shape 1500x450 mm	20	each		
165	Providing and fixing toilet paper holder :				
165.1	C.P. brass	10	each		
166	Providing and fixing soil, waste and vent pipes :				

166.1	100 mm dia				
166.1.1	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	20	metre		
166.1.2	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	10	metre		
167	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 ( 1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :				
167.1	100 mm dia pipe	5	each		
168	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :				
168	For 100 mm dia pipe	50	each		
169	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
169.1	100 mm dia				
169.1.1	Sand cast iron S&S as per IS – 3989	5	each		
169.1.2	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	5	each		
170	Providing and fixing plain bend of required degree.				
170.1	100 mm dia				
170.1.1	Sand cast iron S&S as per IS : 3989	3	each		
170.1.2	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	3	each		
171	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :				
171.1	100 mm				
171.1.1	Sand cast iron S&S as per IS – 1729	5	each		
171.1.2	Sand cast iron S&S as per IS – 3989	5	each		
172	Providing and fixing M.S. stays and clamps for sand cast iron/ centrifugally cast (spun) iron pipes of diameter :				
172.1	100 mm	20	each		
173	Cutting chases in brick masonry walls for following diameter sand cast iron/centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 ( 1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size), including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :				
173.1	100 mm dia	20	metre		
174	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work – Exposed on wall				

174.1	15 mm nominal outer dia Pipes	20	metre		
174.2	20 mm nominal outer dia Pipes	20	metre		
174.3	25 mm nominal outer dia Pipes	100	metre		
174.4	32 mm nominal outer dia Pipes	50	metre		
174.5	40 mm nominal outer dia Pipes	20	metre		
174.6	50 mm nominal outer dia Pipes	10	metre		
175	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				
175.1	15 mm nominal outer dia Pipes	10	metre		
175.2	20 mm nominal outer dia Pipes	20	metre		
175.3	25 mm nominal outer dia Pipes	50	metre		
175.4	32 mm nominal outer dia Pipes	20	metre		
176	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work				
176.1	15 mm nominal outer dia Pipes	20	metre		
176.2	20 mm nominal outer dia Pipes	20	metre		
176.3	25 mm nominal outer dia Pipes	20	metre		
176.4	32 mm nominal outer dia Pipes	20	metre		
176.5	40 mm nominal outer dia Pipes	20	metre		
176.6	50 mm nominal outer dia Pipes	20	metre		
176.7	62.50 mm nominal inner dia Pipes	20	metre		
176.8	75 mm nominal inner dia Pipes	20	metre		
176.9	100 mm nominal inner dia Pipes	20	metre		
177	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work – Exposed on wall				
177.1	15 mm dia nominal bore	10	metre		
177.2	20 mm dia nominal bore	20	metre		
177.3	25 mm dia nominal bore	20	metre		
177.4	32 mm dia nominal bore	20	metre		
177.5	40 mm dia nominal bore	20	metre		
177.6	50 mm dia nominal bore	5	metre		
178	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work				
178.1	15 mm dia nominal bore	5	metre		
178.2	20 mm dia nominal bore	20	metre		
178.3	25 mm dia nominal bore	20	metre		
178.4	32 mm dia nominal bore	20	metre		
178.5	40 mm dia nominal bore	10	metre		

178.6	50 mm dia nominal bore	5	metre		
178.8	65 mm dia nominal bore	5	metre		
178.9	80 mm dia nominal bore	10	metre		
179	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
179.1	25 to 40 mm nominal bore	20	each		
179.2	50 to 80 mm nominal bore	20	each		
180	Providing and fixing brass bib cock of approved quality :				
180.1	15 mm nominal bore	10	each		
181	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
181.1	25 mm nominal bore	10	each		
181.2	20 mm nominal bore	10	each		
181.3	32 mm nominal bore.	10	each		
181.4	40 mm nominal bore	5	each		
181.5	50 mm nominal bore	10	each		
181.6	65 mm nominal bore	2	each		
181.7	80 mm nominal bore	5	each		
182	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
182.1	15 mm nominal bore	10	each		
182.2	20 mm nominal bore	10	each		
182.3	25 mm nominal bore	10	each		
183	Providing and fixing gun metal non- return valve of approved quality (screwed end) :				
183.1	25 mm nominal bore				
183.1.1	Horizontal	5	each		
183.1.2	Vertical	5	each		
183.2	32 mm nominal bore				
183.2.1	Horizontal	2	each		
183.2.2	Vertical	2	each		
183.3	40 mm nominal bore				
183.3.1	Horizontal	2	each		
183.3.2	Vertical	2	each		
183.4	50 mm nominal bore				
183.4.1	Horizontal	2	each		
183.4.2	Vertical	2	each		
184	Providing and fixing uplasticised PVC connection pipe with brass unions :				
184.1	45 cm length				
184.1.1	15 mm nominal bore	200	each		
185	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :				
185.1	100 mm diameter				
155.1.1	Class I	2	each		
185.2	150 mm diameter				
155.2.1	Class I	2	each		
186	Providing and filling sand of grading zone V or coarser				

	grade, allround the G.I. pipes in external work :				
186.1	15 mm diameter pipe	20	metre		
186.2	20 mm diameter pipe	20	metre		
186.3	25 mm diameter pipe	100	metre		
186.4	32 mm diameter pipe	20	metre		
186.5	40 mm diameter pipe	20	metre		
186.6	50 mm diameter pipe	100	metre		
186.7	65 mm diameter pipe	5	metre		
186.8	80 mm diameter pipe	10	metre		
187	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
187.1	15 mm nominal bore	5	each		
187.2	20 mm nominal bore	5	each		
187.3	25 mm nominal bore	5	each		
187.4	32 mm nominal bore	5	each		
187.5	40 mm nominal bore	5	each		
187.6	50 mm nominal bore	5	each		
187.7	65 mm nominal bore	5	each		
187.8	80 mm nominal bore	5	each		
188	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :				
188.1	15 mm nominal bore	20	each		
188.2	20 mm nominal bore	20	each		
188.3	25 mm nominal bore	20	each		
188.4	32 mm nominal bore	20	each		
188.5	40 mm nominal bore	10	each		
188.6	50 mm nominal bore	20	each		
188.7	65 mm nominal bore	5	each		
188.8	80 mm nominal bore	5	each		
189	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	20000	per litre		
190	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
190.1	15 mm nominal bore	5	each		
191	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
191.1	15 mm nominal bore	5	each		
192	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
192.1	15 mm nominal bore	5	each		
193	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				

193.1	15mm nominal bore	40	each		
194	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	50	each		
195	Providing and fixing PTMT, push cock of approved quality and colour.				
195.1	15 mm nominal bore, 98 mm long, weighing not less than 75 gms	50	each		
196	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329 :				
196.1	100 mm dia Ductile Iron Class K-7 pipes	20	metre		
197	Cutting holes up to 30x30 cm in walls including making good the same:				
197.1	With common burnt clay F.P.S. (non modular) bricks	10	Each		
198	Labour for cutting C.I. pipe with steel saw.				
198.1	100 mm diameter C.I. pipe	10	each cut		
199	Supplying and fixing C.I. cover without frame for manholes :				
199.1	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg	20	each		
199.2	500 mm diameter C.I. cover (medium duty) the weight of the cover to be not less than 58 kg	20	each		
199.3	560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg	20	each		
200	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
200.1	L D- 2.5				
200.1.1	Rectangular shape 600x450 mm internal dimensions	20	each		
200.1.2	Square shape 450 mm internal dimensions	20	each		
201	Circular shape 450 mm internal diameter	5	each		
201.2.1	M D – 10				
201.2.2	Square shape 450 mm internal dimension	10	each		
201.2.3	Circular shape 500 mm internal diameter	5	each		
201.3	H D – 20				
201.3.1	Circular shape 560 mm internal diameter	5	each		
202	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg	5	each		
203	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in 94alvaniz fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
203.1	Pre-laminated particle board with decorative lamination on both sides	100	sqm		
204	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost				

	of aluminium snap beading shall be paid in basic item):				
204.1	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	300	sqm		
204.2	With float glass panes of 8 mm thickness (weight not less than 20 kg/sqm)	50	sqm		
205	Replacement of double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.(DSR-2023) Note: Old material will be the property of the Contractor.				
205.1	With stainless steel cover plate minimum 1.25 mm thickness	50	Each		
206	Replacement of aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge. Note: Old material will be the property of the Contractor.				
206.1	Powder coated minimum thickness 50 micron aluminium	30	Each		
207	Repair maintenance of Aluminium Doors by open of door frame and proving and fixing 8mm thick rod (in single leaf) and screws, clit, etc. complete and as per direction of Engineer-in-charge. Note: Old material will be the property of the Contractor.	100	Each		
208	Replacement and fixing of Mortice Lock handle with cover and required nut, screws etc. complete and as per direction of Engineer-in-charge.(Excluding lock) Note: Old material will be the property of the Contractor.	100	Each		
209	Providing and fixing powder coated aluminium snap beading for doors, windows, ventilators and partitions with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically, stainless steel screws, all complete as per the directions of Engineer-in-charge. (minimum thickness of powder coating 50 micron). Note: Old material will be the property of the Contractor.	100	kg		
210	Replacement and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors complete. Note: Old material will be the property of the Contractor.	50	Each		
211	Replacement of aluminium door pivot set of door weight upto 125 kg, including cost of removing old pivot, embedding in door frame as required and making good the same etc. and as per direction of Engineer-in-charge. Note: Old material will be the property of the Contractor.	100	Each		
212	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to				

	the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.				
212.1	With stainless steel cover plate minimum 1.25 mm thickness	10	each		
213	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side, having 12 mm air gap, including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-charge complete.	50	sqm		
214	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete.				
214.1	205 X 19 mm	5	each		
214.2	255 X 19 mm	5	each		
214.3	355 X 19 mm	5	each		
215	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	50	sqm		
216	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in-charge.	50	each		



217	Providing and fixing mineral fibre false ceiling tiles at all heights of size 595X595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance $\geq$ 85%, Thermal Conductivity $k = 0.052 - 0.057$ w/m K, Fire Performance as per (BS 476 pt – 6 & 7) in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item (97galvanized@80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T'. The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size 24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-sections used in false ceiling support system shall be pre-painted with polyester baked paint, for all heights. The work shall be carried out as per specifications, drawings and as per directions of the engineer-in-charge.				
217.1	With 20 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.7)	100	sqm		
218	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect.				
218.1	SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	20	sqm		

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