

# राजस्थान केन्द्रीय विश्वविद्यालय

## CENTRAL UNIVERSITY OF RAJASTHAN



### NOTICE INVITING E-TENDER

(<https://eprocure.gov.in>)

FOR

Comprehensive Annual Operation and Maintenance Works & Services (Electrical & Mechanical, Horticulture, HVAC, Lift, Fire Fighting Systems, STP, RO, Housekeeping, IT Works, Manpower, etc.) at Central University of Rajasthan.

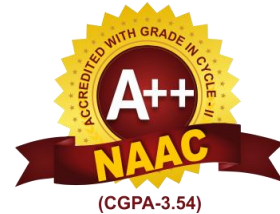
NIT No. CURAJ/R/F.179/2026/7057 Date 01.10.2026

Estimated Cost: ₹ 13,87,67,210/- (including GST and other taxes)

**CENTRAL UNIVERSITY OF RAJASTHAN**  
**NH-8, BANDARSINDRI, KISHANGARH (AJMER)**



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



NIT No.: CURAJ/R/F.179/2026/7057

Date 01.10.2026

**NOTICE INVITING E-TENDER**  
**(<https://eprocure.gov.in>)**

The Registrar, Central University of Rajasthan, NH-08, Bandarsindri, Tehsil.- Kishangarh, Dist.- Ajmer, Rajasthan -305817 invites E-**Tender** (<https://eprocure.gov.in>) from eligible companies/firms 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 (Electrical & Mechanical, Horticulture, HVAC, Lift, Fire Fighting Systems, STP, RO, Housekeeping, IT Works, Manpower, etc.) at Central University of Rajasthan.

The tender document, complete in all respects should be submitted online on GeM-CPPP portal <https://eprocure.gov.in>

In case of any query, please contact Estate Section, on contact No.01463-257507 during the Office hours.

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

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tender Document No.</b>                                      | CURAJ/R/F.179/2026/7057 Date 01.10.2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Name of work</b>                                             | Comprehensive Annual Operation and Maintenance Works & Services (Day to Day) including; 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 at Central University of Rajasthan. |
| <b>Estimated Cost</b>                                           | <b>Rs. 13,87,67,210.00</b> /- (including GST and other taxes)<br>(The yearly wages/salary of manpower as per Sub Heads XIV - Hiring Manpower through agency, Rs. 3.00 Cr. has been included in the estimated cost put to the tender)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Period of contract execution</b>                             | The duration of contract will be 01 years from the date of start of work of signing of MoU, whichever is earlier, extendable further for a 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tender Fees</b>                                              | Rs. 10,000/-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Earnest Money Deposit</b>                                    | Rs. 27,76,000/-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Document download start date &amp; time</b>                  | <b>01.10.2026 at 05:00 PM onwards</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Bid submission start date &amp; time</b>                     | <b>01.10.2026 at 05:00 PM onwards</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Pre-Bid Date</b>                                             | <b>09.10.2026 at 11:30 AM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Bid submission closing date &amp; time</b>                   | <b>22.10.2026 by 02:00 PM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Date &amp; time of opening of tender (Technical Bids)</b>    | <b>23.10.2026 at 03:00 PM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Date &amp; Time of Opening of Financial Bids (Price Bid)</b> | <b>To be intimated later</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

The tender document can be downloaded from GeM-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.

**The tender document, complete in all respects should be submitted online on GeM-CPPP portal [eprocure.gov.in](https://eprocure.gov.in).**

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 180 days from the date of opening of Technical Bids.

## **ELIGIBILITY CRITERIA**

The interested companies/firms having successfully completed similar works and meeting the following minimum qualifying criteria are encouraged to participate in the bidding process:

**a) WORK EXPERIENCE:**

Experience of having successfully completed similar works during the last 7 years ending previous day of last date of submission of tender:

Three similar works each costing not less than the amount equal to 40% of the estimated cost

**OR**

Two similar works each costing not less than amount equal to 60% of the estimated cost

**OR**

One similar work costing not less than amount equal to 80% of the estimated cost.

The bidder must have executed similar work in any PSU / Govt departments / University/Institution Governed by Central / State Govt. "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 means "Comprehensive Annual Operation and Maintenance Works & Services", should be supported by certificates issued by the Competent Authority of client's organization.

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.

**b) FINANCIAL STRENGTH:**

- i) The bidder should have Average Annual Financial Turnover (gross) of 50% OF THE ESTIMATED COST of similar works during the immediate last three consecutive financial years balance sheet, ending **31st March 2026**, duly audited by Chartered Accountant. Year in which no turnover is shown would also be considered for working out the average. (Scanned copy of Certificate from CA with Unique Document Identification Number (UDIN) to be attached). The value of annual turnover figures shall be brought to the current value by enhancing the actual turnover figures at simple rate of 7% per annum.
- ii) 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.

The bidder has to submit a list of jobs in progress and brief details of the scope of work, names and address (postal mail) of present clients.

- iii) The Bidder should have a Solvency equal to or more than 40% of the cost of the proposed work certified by his bankers for this work. Banker's certificates / Solvency certificates should be on letter head of the Bank, self-attested and should have been issued within Six months from the original last date of submission of the Bid.
- iv) Net Worth of the company/ firm as on 31st March, 2025 of previous Financial Year should be 50% of the estimated cost. Certificate duly audited and certified by the Chartered Accountant should be submitted along with the bid document.
- v) 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.

c) **EARNEST MONEY DEPOSIT:**

The bidder shall be required to submit the Earnest Money Deposit (EMD) for an amount of **Rs. 27,76,000/-** in the form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Commercial Banks (drawn in favour of Central University of Rajasthan) shall be scanned and uploaded on the e-Tendering website within the period of bid submission. **The original EMD should be deposited either in the office of Registrar or Executive Engineer office, CURAJ within the period of bid submission.** It would be returned (without interest) after award of the contract. ***Tender 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

## **LIST OF DOCUMENTS TO BE SUBMITTED**

**All the following documents need to be submitted with the bid failing which the bid will not be considered. The uploaded documents should be in readable, printable and legible form.**

- a) Details of Similar Works
- b) Details of Work Experience Certificates
- c) Financial Details and Turnover
- d) Bidding capacity document
- e) Tender Fee
- f) EMD (Earnest Money Deposit)
- g) Solvency Certificate – 40% of the estimated value of the tender.
- h) Net worth certificate
- i) **PART – A** (BOQ) for financial bid – For deciding L-1 vendor.
- j) **PART – B** Schedule of Quantity (**Annexure – IV, V, VI, VII, VIII, IX, X & XI**) - Rates for the various Sub Heads
- k) Valid GST registration, EPF registration, ESIC registration, PAN No
- l) Memorandum (Annexure-I) of NIT.
- m) Letter of Acceptance of Tender Conditions unconditional (Annexure II) of NIT on letter head of the bidder.
- n) Annexure-III of NIT – Affidavit for correctness of Documents/Information.
- o) A self-certificate on Non-Judicial Stamp Paper shall be attached regarding non-blacklisting 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.
- p) Power of Attorney of the person authorized for signing/submitting the tender.
- q) All pages of the entire tender, including corrigendum (if any), duly signed by the authorized person.
- r) Integrity pact
- s) Registration Details of the contractor in the GST Act in the State at the location of the Project.

## **INSTRUCTION FOR BIDDER TO SUBMIT THE BID**

1. Before submitting the bids, please go through complete tender document and terms & conditions on which the work will be awarded.
2. The bidders are required to quote strictly as per terms and conditions, specifications, scope of work, standards given in the tender documents and not to stipulate any deviations.
3. The yearly wages/salary of manpower as per Sub Heads XIV - Hiring Manpower through agency, Rs. 3.00 Cr. has been included in the estimated cost put to the tender.
4. 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.
5. 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.
6. If the bidder is found ineligible after opening of tenders, his tender shall become invalid.
7. The bidders if required may submit queries, if any, through E-mail or in writing to the tender inviting authority to seek clarifications.
8. 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.
9. Tenders submitted shall remain valid for **180 days** from the date of opening for the purpose of acceptance and award of work.
10. Intending bidders are advised to inspect and examine the site and it's 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.
11. 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.
12. 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.
13. 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.

14. 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.
15. 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.
16. The contractor shall not be permitted to bid for the works in CURaj, 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.
17. 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.
18. **Bidder needs to quote for the Part-A and Part-B separately. The L-1 bidder shall be finalized based on below mentioned Sub Heads of Part- A (BOQ for financial bid) only as estimated cost put to tender (ECPT) is based on the Sub-Heads of Part-A only.**

#### **PART – A**

| <b>Sub Heads</b> | <b>Name of Works</b>                                                                                                                                                                         |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SH- I            | O & M of 750 KLD Sewerage Treatment Plant at CURAJ.                                                                                                                                          |
| SH- II           | 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. |
| SH- III          | Comprehensive AMC Work of Online UPS(s) of different ratings installed in CURaj.                                                                                                             |
| SH- IV           | Comprehensive AMC Work of Water Coolers installed in CURaj.                                                                                                                                  |
| SH- V            | Comprehensive AMC Work of HVAC System (Ductable / VRV-VRF / Cassate / Split / Tower / Window Type Air Conditioners and ETAC System) installed in CURaj.                                      |
| SH- VI           | Comprehensive Annual Operation, Repair and Maintenance of 05 Nos. electric sub-stations, Electric HT & LT Lines and 05 numbers DG Sets at CURaj.                                             |
| SH- VII          | Comprehensive Annual Operation, Repair and Maintenance of 14 nos. lifts at CURaj.                                                                                                            |
| SH- VIII         | Comprehensive Annual Repair & Maintenance Work of Fire Hydrant System, Fire Extinguishers, and Fire Alarm System installed at CURaj.                                                         |
| SH – IX          | Comprehensive Annual Repair & Maintenance of 2 nos. of 100 kWp Rooftop SPV On-Grid Power Plant at CURaj.                                                                                     |
| SH – X           | Comprehensive Annual Maintenance Contract for RO Water Purifiers / Plants.                                                                                                                   |
| SH – XI          | Comprehensive Operation and Maintenance of IT Works.                                                                                                                                         |
| SH – XII         | Comprehensive Maintenance of Horticulture and operation & maintenance of Drip Irrigation System.                                                                                             |

|           |                                                                                                              |
|-----------|--------------------------------------------------------------------------------------------------------------|
| SH – XIII | Mechanized Housekeeping Services, Garbage Collection & Disposal Services, and Pest Control Services at CURAJ |
| SH - XIV  | Hiring Manpower with fixed remuneration through agency at CURAJ                                              |

19. The rates for the below mentioned Sub Heads (Part- B - Schedule of Quantity) are also invited by the bidders but the cost of the same will not be considered 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 the rates of (Part - B - Schedule of Quantity) and uploaded it along with technical bid.*** 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.

## PART – B

| Sub Heads | Name of Heads                                                                                     |
|-----------|---------------------------------------------------------------------------------------------------|
| SH- A     | Supply of Civil Maintenance Consumable Items at CURAJ ( <b>Annexure – IV</b> )                    |
| SH- B     | Supply of Civil Maintenance Consumable Items (DSR Items) at CURAJ ( <b>Annexure – V</b> )         |
| SH- C     | Misc. Civil Maintenance works at CURAJ ( <b>Annexure – VI</b> )                                   |
| SH – D    | Supply of Electrical Consumable Items at CURAJ ( <b>Annexure – VII</b> )                          |
| SH – E    | Supply of items for Horticulture Development work at new site in CURAJ ( <b>Annexure – VIII</b> ) |
| SH - F    | Supply of items for IT works at CURAJ ( <b>Annexure – IX</b> )                                    |
| SH - G    | Refilling and HPT of Portable Type Fire Extinguishers ( <b>Annexure – X</b> )                     |
| SH – H    | Supply and Installation (under buy back) of Reverse Osmosis Plant ( <b>Annexure – XI</b> )        |

20. 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.
21. 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.
22. In order to ascertain the quantum and location of works, the tenderer shall visit the site, campus of University 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, 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.
23. The rates shall be quoted in Indian rupees inclusive all taxes/charges, both in figures and in words.

In case of discrepancy in the two, price quoted in words will be taken as valid.

24. The service charges quoted by bidders shall be firm and fixed throughout the period of the contract.
25. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the 30 min. 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 30 min. 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. University reserves the right to consider or not to consider the bids of the agency / firms / company / contractor / tenderer who has already provided the services in the University.

## **GENERAL CONDITIONS OF CONTRACT**

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.
2. 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 University 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 University. 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.
3. No extra payment shall be made by the Central University of Rajasthan if tenderer requires deploying more workforces to maintain the service quality.
4. Govt. of India Guideline/Norms for respective services will be applicable.
5. 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.
6. **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.
7. 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.
8. 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.
9. The tenderer shall be responsible for the compliances of the various statutory requirements including but not limited to the following:
  - a) EPF – As applicable, 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 bills.
  - b) Administrative / Service charges
  - c) ESIC Charges as applicable.
  - d) Bonus as applicable.
  - e) Weekly off - 4 days per month for the worker deployed for 7 days a week by the contractor

f) GST as applicable.

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

10. Deployment of manpower without prior approval of the University shall not be permitted. The University reserves the right to reject any manpower found unsuitable, under qualified, lacking required experience, or involved in misconduct, and the bidder shall replace such manpower immediately without any additional cost to the University.
11. Regular training of the manpower in their respective area of work needs to be carried out. Agency should conduct training of the manpower/staff at the start of the contract and their after on regular intervals at a frequency of every 3 to 4 months.
12. The manpower deployed by the contractor shall be required to work in normal shifts, rotational shifts, off-hours, holidays, weekends, recruitment work, emergency situations, or during university events/functions, as decided by CURAJ from time to time.
13. The tenderer shall give the liveries (Once in a year) to all workers at his own cost as per following details: Uniform of University approved colour: 2 Set of stitched pant and full sleeve shirt, One Pair Leather shoes with socks, Woolen sweater / Jacket, Raincoat to Horticulture staffs.
14. 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/ISMS/ Wet Riser/ Sprinkler & IT & AV Works and IPPBX etc. should be strictly followed.
15. 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.
16. 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 has to deposit the same at respective Dept. / Section of the University.
17. 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.
18. Regular preventive maintenance for all services shall be carried out by deputing exclusive preventive maintenance teams. Cost on this account shall be included in quoted rates and nothing extra shall be paid on this account.
19. The contractor shall perform daily checking of items covered under CAMC to ensure proper functioning and early fault detection. Cleaning of external surfaces using a dry microfiber cloth; ensuring ventilation openings are unobstructed; light dusting of rack fronts and nearby floor areas is also to be done on daily basis.
20. It shall be entirely the responsibility of the tenderer to ensure that no unlawful acts done by his staff / workers 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. The tenderer shall replace the staff immediately, in the event of misconduct by him/her.

21. The bidder shall mandatorily adopt a proactive maintenance approach for all items covered under the CAMC. The deployed manpower shall regularly inspect, monitor, troubleshoot, and carry out preventive maintenance of all items covered under CAMC.
22. It is the responsibility of the Agency/Company to keep the minimum 10% inventory of the spare parts in case of CAMC for then items covered under this tender.
23. 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.
24. **Consumables:**
  - i) Consumables: All consumables required for day to day, preventive maintenance & Comprehensive maintenance shall be arranged by the tenderer.
  - ii) 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.
  - 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.
25. University has its own tools / equipment's / machinery, the same may be used by the agency however, the running cost of the same will be borne by the agency. Further, it will be the responsibility of the agency to keep functioning all such equipment's / tools / machinery at all time.
26. In case, the contractor fails to discharge her/his primary liabilities, the Security Deposit / Performance Guarantee / other dues and the amounts due against running bills under the contract will be utilized by the University for meeting such liability.
27. 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.
28. The contractor will not assign, transfer, pledge or sub contract the work/performance of services without prior written consent of the University.
29. 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.
30. 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.

31. The CMC Work of all the equipment's / machinery shall be carried out as per the prescribed guidelines of respective Original Equipment Manufacturer / Authorized Service Agent of OEM and directions of University.
32. The reports of preventive maintenance, preventive maintenance register/file shall be submitted to the University. Apart from the preventive maintenance visits, any breakdown calls in between emanating from the user will also be attended to without any additional charge.
33. It shall be the responsibility of the agency/contractor to maintain all the equipment's / machinery in working condition and too look after for checking their general maintenance throughout the contract period and to hand over the same in working condition to the CURAJ after completion of the contract.
34. 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.
35. 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.
36. 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.
37. 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. However, no machines will be shifted without the knowledge of the University.
38. 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.
39. 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.
40. No request / information for routine cleaning, maintenance, services for housekeeping, horticulture, electrical, etc., requirements from anybody will be made, it will be the duty of agency authorized person / staff. Any request / complaint will be viewed as non-execution of housekeeping services and will be treated accordingly.
41. It will be the responsibilities of the agency to ensure smooth functioning of all services as per tender **(SH I to XIII of Part – A)** by maintaining regular inspection at his own and to submit the inspection report & requirements to the University on regular basis.
42. The tenderer shall depute sufficient number of qualified and experienced staff of various respective trades for attending day to day maintenance work, as per the requirement of infrastructure of the University.
43. All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of the Central University of Rajasthan.
44. 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.

45. 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.
46. 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. (Check for Housekeeping for Buildings)
47. This is Comprehensive AMC and shall include servicing cum repair/replacement of consumables and all spare parts such as, sub-assemblies, fan motor, compressor, condenser, relay, thermostat, drain pipe, green refrigerant charging and wiring works, etc., as required on site. The agency/contractor shall use the spare parts & material of IS and reputed brands/OEM or as directed by the University.
48. Preventive Maintenance: The service personnel of agency/contractor will visit the installation sites for general checkup of all the systems and submit the reports to the University as per standard practice.
49. The agency/contractor shall be responsible for preventive and corrective repair & maintenance of all the systems 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 the systems. The reports of preventive maintenance, preventive maintenance register/file shall be submitted to the University.
50. Contractor shall ensure that, emergency spare parts are available on site readily for attending the breakdowns.
51. The agency/contractor shall be responsible for preparation & maintenance of all records, break down reports etc. and timely submission to the University.
52. The work is to be carried out to the entire satisfaction of the University.
53. 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.
54. 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.
55. The contractor/agency shall establish and operate a **24×7 Customer Care Services** for receiving complaints through call/SMS/email/WhatsApp or any other approved mode. The Customer Care Service shall forward the complaint immediately to the concerned team of the agency and shall track the status of each complaint until its satisfactory resolution. Proper records of complaints received, action taken, and closure status shall be maintained and submitted to the University as and when required.
56. In case the Customer Care Service is found non-functional or complaints are not being properly attended, forwarded, monitored, or resolved within the prescribed time, a penalty shall be imposed and recovered from the bills of the contractor/agency. The decision of the University authority in this regard shall be final and binding on the contractor.
57. The bidder shall supply a fully customizable Complaint Management Web Portal that logs and retains complete records of complaints (creation timestamp, complainant details, attachments, status changes, actions, closure details and re-open events), assigns a unique complaint number to each complaint and allows tracking via complaint number, email or mobile number, and permits

users to re-open closed complaints with the re-open action and reason logged; the portal shall include an admin dashboard for the university to view live statistics and per-complaint logs, provide a feedback mechanism that sends a secure email/SMS link to the complainer upon closure, support automated notifications (email/SMS) for key events, enforce role-based access control and optional MFA for administrative accounts, store all data encrypted at rest and in transit, offer RESTful APIs/webhooks and configurable integrations (SSO/LDAP/AD, SMS gateway, SMTP), support configurable SLAs and automatic escalations, provide audit trails and exportable reports, meet a minimum 99.5% uptime during working hours with documented backup and restore procedures, undergo UAT and security assessment with acceptance only after SITC and UAT sign-off, and be covered under the bidder's onsite maintenance/support contract with agreed SLAs for response/resolution.

58. The tenderer has to attend any breakdown in any of the services / equipment's 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 University staff also will always be treated as a complaint for this purpose. From the time of reporting, all the defects have to be removed within 24 hours of its occurrence. The tenderer will keep all necessary spare parts of these equipment's ready in the stock. If the tenderer fails to deliver the services within the time,

- (i) Penalty: The penalty provisions shall be applicable only to those items/activities for which specific penalty clauses are expressly provided in the tender.
- (ii) Liquidated Damages (LD): The Liquidated Damages (LD) provisions shall be applicable only to those items/activities where no specific penalty provision has been specified in the tender.

59. The bidder shall submit the following documents of each deployed manpower before deployment at the university:

- Educational Qualification Certificates
- Technical Certifications, if any
- Experience Certificates
- Valid Identity Proof (Aadhaar Card/Voter ID/PAN Card etc.)
- Any other document required by Central University of Rajasthan.

60. The tenderer will deploy a Team Leader / Facility Manager at site in 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.

61. The Agency/Company should depute at least one technical staff (Graduate/Diploma in respective technical field/area with minimum 5 years of experience) of each for civil maintenance, electrical, IT, housekeeping, horticulture, who will coordinate with the University for executing the work. The tenderer shall furnish name & contact number of the persons, who should be contacted during emergency. In case Team Leader / Facility Manager are found absent from his duty, a penalty shall be made.

62. The manpower deployed for all 30 days.

63. The tentative manpower deployment indicated herein is based on the existing contract for an area of approximately 1.50 lakh sq. m. However, the present area to be covered under Housekeeping and Horticulture Services is approximately 2.24 lakh sq. m. Accordingly, the Contractor shall

deploy adequate manpower to ensure satisfactory performance of all services as per the scope of work and prescribed service levels. The number of personnel may be increased, as deemed necessary by the University, depending upon the actual service requirements during the contract period, without compromising the quality and continuity of the services.

| S.No | Description of Services             | No of Manpower | Remarks                                                                                                                                                                                                                                                                                                                                                                                    |
|------|-------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.   | Site Electrical Engineer/Supervisor | 01             | Highly Skilled/Above.<br>1) Bachelor's degree in Electrical Engineering from a recognized University/Institute with at least two (01) year of experience in relevant field;<br>OR<br>Diploma in Electrical Engineering from a recognized University/ Institute with at least two (02) years of experience in relevant field.<br>2) The Candidate should have valid competency certificate. |
| 2.   | Power House Engineer                | 01             | Highly Skilled/Above.<br>1) Bachelor's degree in Electrical Engineering from a recognized University/Institute with at least two (01) year of experience in relevant field;<br>OR<br>Diploma in Electrical Engineering from a recognized University/ Institute with at least two (02) years of experience in relevant field.<br>2) The Candidate should have valid competency certificate. |
| 3.   | Wireman                             | 05             | Skilled.<br>ITI in electrician/wireman trade with minimum three years relevant working experience.<br>(Note: The Candidates should have valid Wireman License)                                                                                                                                                                                                                             |
| 4.   | Pump House Operator                 | 05             | Skilled.<br>ITI in electrician/wireman trade with minimum three years relevant working experience.                                                                                                                                                                                                                                                                                         |
| 5.   | Khalasi                             | 05             | 10 <sup>th</sup> Pass with exposure to the electrical works.                                                                                                                                                                                                                                                                                                                               |
| 6.   | Housekeepers                        | 77             |                                                                                                                                                                                                                                                                                                                                                                                            |
| 7.   | Housekeeping Supervisors            | 04             |                                                                                                                                                                                                                                                                                                                                                                                            |
| 8.   | Horticulture Supervisors            | 01             |                                                                                                                                                                                                                                                                                                                                                                                            |
| 9.   | Horticulture manpower               | 36             |                                                                                                                                                                                                                                                                                                                                                                                            |
| 10.  | STP Operators                       | 02             |                                                                                                                                                                                                                                                                                                                                                                                            |

64. University organizes various events to celebrate different occasions such as foundation day, convocation day, National festivals, Annual fests, etc., throughout the year. The bidder shall ensure to provide sufficient manpower for arrangement of the same. Cost of the same must be quoted in the Electrical/IT/Horticulture/STP/ Civil, etc. No separate payment will be made for the same.
65. Failure in any services and in urgent need, the University may get it done at it's own level at the risk and cost to the agency/contractor.
66. In case of non-satisfactory services, University may decide for the termination of the contract and forbidden of the Performance Guarantee.

### **PAYMENT TERMS AND CONDITIONS FOR THE CONTRACTOR**

1. Payment will be made on the monthly basis upon satisfactory services. No 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.
2. 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 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 bill
  - b) Challans in token of depositing EPF, ESIC with the concerned Authority
  - c) A certificate that the wages to the workers has been paid as per the notifications issued by Regional Labor Commissioner from time to time should invariably be furnished by the contractor
  - d) Monthly Payment Invoice
  - e) EPF – As applicable, 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 bills
  - f) Biometric attendance report
  - g) Reports of Complaints logged / resolved / pending, complete statics.
  - h) Details of Preventive Maintenance Report submitted along with functional report of items covered under CAMC
  - i) Stock Report on monthly basis, if any
  - j) Administrative / Service charges, if any
  - k) ESIC Charges as applicable
  - l) Bonus as applicable
  - m) GST as applicable. The responsibility of paying taxes online and timely along with penalty and fines will remain with the contractor. The University in no capacity will be liable to pay any penalty or fine for delay in GST payment
  - n) Any other prevailing tax/charges.
3. **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. Continuous failure on this part the University will bound to pay wages to labours on behalf of contractor/company and balance amount along with contribution towards EPF, ESI, etc., of labour to the contractor / company.**

4. Biometric Attendance record will be of the University, which will be considered for the payment to the company. Company shall inform changes in data of labor/person working to update the data.
5. **There will be a monitoring committee, which will submit the monthly report about the performance of the agency. The same report will be considered for the payments/penalties etc.**
6. Schedule of manpower engaged in the University will be given in advance at the beginning of each month, preferably by first day of each month.
7. Central University of Rajasthan by its any authorized person/committee reserve the rights to monitor the services of the contractor/company without any prior notice. The payment will be made on the basis of report of committee.

## **TERMS OF PAYMENT AND OTHER FACILITIES FOR WORKERS**

1. 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.
2. 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.
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 install a Biometric Attendance Machine for his workforce and attendance record to be given with the monthly bills. List of staff being posted to be given with their experience and credentials. All the deputed staff shall carry the valid I-Card of the Agency/Contractor/OEM.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. Disputes, grievances, if any, between the contractor and personnel/worker deployed by her/him have to be settled by the contractor only.
11. 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.

## **SCOPE OF WORKS**

The University campus is comprising academic buildings, administrative buildings, hostels, residential quarters, laboratories, libraries, roads, lawns, landscape areas, utility services, Guest House, Play Grounds, Health Centre and other infrastructure facilities.

The Central University of Rajasthan (CURaj) is spread over an area of 518 acres. The University has approximately 20 acres of lawn area. The campus includes around 16,887 trees of approximately 11 years of age, hedges measuring about 8,749 Rft, and approximately 11,847 shrubs.

The total built-up area of the University is approximately 156,145.408 Sq.m., other than parking areas. The University road network is approximately 9.8 KM (Bituminous, Paver Path and Concrete) in length, and the campus comprises 41 buildings. In addition, 07 buildings with a total built-up area of approximately 61,217.16 Sq.m. are presently under construction. University have a 750 KLD capacity Sewerage Treatment Plant (STP), and Ponds etc.

On the Electrical & Mechanical side, there are 4 Nos. 11/0.415 KV electric sub-stations to feed the power supply to various buildings of the University, pump houses comprising electric motors and pumps of different ratings to feed water to the buildings, DG sets of 250 KVA to 500 KVA capacity to provide essential power supply in case of power outages, internal and external electrical fittings and fixtures throughout the 518-acre campus, HVAC system, water coolers, online UPS, passenger lifts, fire-fighting system, 200 KWP Solar plant, etc., installed for proper functioning and illumination of the campus.

University intends to engage firms/companies for providing Comprehensive Annual Operation and Maintenance Works & Services (Day to Day) for campus, including 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, HT/LT lines 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 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 4A-2, 4A3 (G+3) 4A4 (G+2), 4A-5 (G+2) & 4A-6 (G+3) (5 Nos) | 48,289.02                    |
| 3.            | Administrative Building (G+2)                                                | 6,469.64                     |
| 4.            | V.C. Residence (G)                                                           | 706.39                       |
| 5.            | Hostels B5, B6, B7 & B8 (4 Nos)                                              | 28,954.98                    |
| 6.            | Estate Building (G+1)                                                        | 3,278.39                     |
| 7.            | Dining Blocks 2 (G)                                                          | 2897.39                      |
| 8.            | Utility Buildings (2 Nos), (G)                                               | 2,369.95                     |
| 9.            | ESS Blocks (5 Nos) (G)                                                       | 5,304.25                     |
| 10.           | Residential Quarters (5 Types)                                               | 15,400.96                    |
| 11.           | Girls hostel No.1,2,3,4 (4Nos)                                               | 23,400.00                    |
| 12.           | Semi- permanent Structure SP-1,2,3 & 4 (4 Nos)                               | 11,700.00                    |
| 13.           | Health Centre                                                                | 340.00                       |
| 14.           | Central Instrumentation Laboratory Building                                  | 1,560.00                     |
| 15.           | School of Education and Dept. of Yoga Science Building                       | 1,822.98                     |
| 16.           | Shopping center area (ground floor)-                                         | 259.00                       |
| 17.           | Pump House Block                                                             | 75.6                         |
| 18.           | STP Block                                                                    | 223.20                       |
| 19.           | Canteen Block                                                                | 1748.66                      |
| 20.           | Barrack                                                                      | 506.60                       |
| 21.           | Hostels (4 Nos.)*                                                            | 37658                        |
| 22.           | Central Library*                                                             | 15485.37                     |
| 23.           | Indoor Sports Complex*                                                       | 2195                         |
| 24.           | B-6 Mess*                                                                    | 1222.60                      |
| 25.           | Main Gate                                                                    | 140                          |
| 26.           | Kendriya Vidhyalaya (KV)*                                                    | 4541.19                      |
|               | <b>Total Area</b>                                                            | <b>2,24,501.09</b>           |

***\* As these are under construction so should be considered only for housekeeping and horticulture services.***

**DETAILS OF SERVICES COVERED IN THIS CONTRACT:**

| <b>Sub Heads</b> | <b>Name of Works</b>                                                                                                                                                                         |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SH- I            | O & M of 750 KLD Sewerage Treatment Plant at CURAJ.                                                                                                                                          |
| SH- II           | 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. |
| SH- III          | Comprehensive AMC Work of Online UPS(s) of different ratings installed in CURaj.                                                                                                             |
| SH- IV           | Comprehensive AMC Work of Water Coolers installed in CURaj.                                                                                                                                  |
| SH- V            | Comprehensive AMC Work of HVAC System (Ductable / VRV-VRF / Cassate / Split / Tower / Window Type Air Conditioners and ETAC System) installed in CURaj.                                      |
| SH- VI           | Comprehensive Annual Operation, Repair and Maintenance of 05 Nos. electric sub-stations, Electric HT & LT Lines and 05 numbers DG Sets at CURaj.                                             |
| SH- VII          | Comprehensive Annual Operation, Repair and Maintenance of 14 nos. lifts at CURaj.                                                                                                            |
| SH- VIII         | Comprehensive Annual Repair & Maintenance Work of Fire Hydrant System, Fire Extinguishers, and Fire Alarm System installed at CURaj.                                                         |
| SH – IX          | Comprehensive Annual Repair & Maintenance of 2 nos. of 100 kWp Rooftop SPV On-Grid Power Plant at CURaj.                                                                                     |
| SH – X           | Comprehensive Annual Maintenance Contract for RO Water Purifiers / Plants.                                                                                                                   |
| SH – XI          | Comprehensive Operation and Maintenance of IT Works.                                                                                                                                         |
| SH – XII         | Comprehensive Maintenance of Horticulture and operation & maintenance of Drip Irrigation System.                                                                                             |
| SH – XIII        | Mechanized Housekeeping Services, Garbage Collection & Disposal Services, and Pest Control Services at CURAJ                                                                                 |
| SH - XIV         | Hiring Manpower with fixed remuneration through agency at CURAJ                                                                                                                              |

i. **SH – I - O & M of 750 KLD Sewerage Treatment Plant at CURAJ.**

- a) The work includes round-the-clock operation and maintenance of 750 KLD Sewerage Treatment Plant based on bio-remediation technology including deployment of required manpower, operation of complete system and supply/use of consumables such as NSDL liquid and other required materials complete in all respects. No extra payment shall be made on this account.
- b) The contractor shall remove debris, fallen trees, unwanted materials and damaged structural parts lying within the premises and carry out necessary restoration and repair works wherever required.
- c) It will be the responsibility of the agency to ensure smooth functioning of all above by maintaining regular inspection at his own and to submit the inspection report to the University on regular basis.
- d) The tenderer shall depute sufficient number of qualified and experienced staff of various trades such as Site Engineer / Supervisor, Plumber, Carpenter, Mason, STP Operator, Sewer Man, Painter, Welder or as per the requirement, for attending the day to day maintenance work, as per the requirement of infrastructure of the University.
- e) All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of the Central University of Rajasthan.
- f) 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.

ii. **SH – II - 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 carry out day to day and preventive electrical maintenance works in whole University Campus (about 518 acres) to upkeep all the electrical internal & external installations, fittings, fixtures, wiring, Lights, Fans, Geysers etc. functional for all days in a month including Sundays and Holidays; including site electrical engineer/supervisor, manpower, labour, machinery, general consumables, tools & tackles, on duty worker commutation facility, safety tools for LT & HT power supply, various type of ladders/tipaya/chopaya for different heights, uniform for deputed staff etc. as required on site, complete in all respect, as per standard practice and directions of University.
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.
3. Comprehensive Annual O&M of two numbers pump houses and other water motors & pumps (quantity=39 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. The details of 39 water motor and pumps are given below:

| Sr. No. | Location                                     | Type of Motor & Pump (Open Well/ Submersible /Borewell) | Rating of Motors |             |      | Details of Starter |      |
|---------|----------------------------------------------|---------------------------------------------------------|------------------|-------------|------|--------------------|------|
|         |                                              |                                                         | HP               | 01/03 Phase | Make | DOL/ FASD          | Make |
| 1       | Pump House No. 01 (03 Lakh litre water tank) | Submersible                                             | 7.5              | 3           | -    | DoL                | LT   |
| 2       | Pump House No. 01 (03 Lakh litre water tank) | Submersible                                             | 7.5              | 3           | -    | DoL                | LT   |
| 3       | Pump House No. 01 (03 Lakh litre water tank) | Submersible                                             | 10               | 3           | -    | FASD               | LT   |
| 4       | Pump House No. 01 (03 Lakh litre water tank) | Submersible                                             | 12.5             | 3           | -    | FASD               | LT   |
| 5       | Pump House No. 01 (03 Lakh litre water tank) | Submersible                                             | 10               | 3           | -    | FASD               | LT   |

|    |                                                 |             |      |   |   |      |        |
|----|-------------------------------------------------|-------------|------|---|---|------|--------|
| 6  | Pump House No. 01<br>(03 Lakh litre water tank) | Submersible | 10   | 3 | - | FASD | LT     |
| 7  | Pump House No. 02<br>(05 Lakh litre water tank) | Submersible | 15   | 3 | - | FASD | LT     |
| 8  | Pump House No. 02<br>(05 Lakh litre water tank) | Submersible | 15   | 3 | - | FASD | LT     |
| 9  | Pump House No. 02<br>(05 Lakh litre water tank) | Submersible | 15   | 3 | - | FASD | LT     |
| 10 | Pump House No. 02<br>(05 Lakh litre water tank) | Submersible | 15   | 3 | - | FASD | LT     |
| 11 | Pump House No. 02<br>(05 Lakh litre water tank) | Submersible | 12.5 | 3 | - | FASD | LT     |
| 12 | Mines                                           | Submersible | 5    | 3 | - | DOL  | Apex   |
| 13 | Bhairon Baba Well                               | Submersible | 12.5 | 3 | - | FASD | LT     |
| 14 | University Gate No.-<br>2 Well                  | Submersible | 12.5 | 3 | - | FASD | LT     |
| 15 | Nursery                                         | Borewell    | 3    | 3 | - | DOL  | Apex   |
| 16 | B-3 Hostel<br>Courtyard                         | Borewell    | 5    | 3 | - | DOL  | LT     |
| 17 | B-1 Hostel<br>Basement LHS                      | Submersible | 2    | 1 | - | DOL  | Shanti |
| 18 | B-1 Hostel<br>Basement RHS                      | Submersible | 2    | 1 | - | DOL  | Shanti |
| 19 | B-2 Hostel<br>Basement LHS                      | Submersible | 2    | 1 | - | DOL  | Shanti |
| 20 | B-2 Hostel<br>Basement RHS                      | Submersible | 2    | 1 | - | DOL  | Shanti |

|    |                                                  |                       |    |   |       |      |           |
|----|--------------------------------------------------|-----------------------|----|---|-------|------|-----------|
| 21 | Fountain in front of B-1 Hostel                  | Submersible           | 2  | 1 | -     | DOL  | LT        |
| 22 | Fountain in front of B-2 Hostel                  | Submersible           | 2  | 1 | -     | DOL  | Shanti    |
| 23 | Fountain in front of B-3 Hostel                  | Submersible           | 2  | 1 | -     | DOL  | LT        |
| 24 | Fountain in front of B-4 Hostel                  | Submersible           | 2  | 1 | -     | DOL  | LT        |
| 25 | Fountain Auditorium LHS                          | Submersible           | 5  | 3 | -     | DOL  | LT        |
| 26 | Fountain Auditorium RHS                          | Submersible           | 5  | 3 | -     | DOL  | LT        |
| 27 | Pump House No. 3 (for Sports Grounds)            | Submersible           | 15 | 3 | -     | FASD | LT        |
| 28 | Pump House No. 3 (for Sports Grounds)            | Submersible           | 15 | 3 | -     | FASD | LT        |
| 29 | VC Residence                                     | Pressure Booster Pump | 1  | 1 | Texmo | -    | -         |
| 30 | Boat Fountain in pond nearby gate no. 03         | Submersible           | 5  | 3 | -     | DOL  | LT        |
| 31 | National Flag (100 feet high)                    | Induction Motor       | 2  | 3 | -     | DOL  | LT        |
| 32 | Front Stage Curtain at Auditorium, SP-2 Building | Induction Motor       | 1  | 3 | CG    | DOL  | Effectron |
| 33 | Back Stage Curtain at Auditorium, SP-2 Building  | Induction Motor       | 1  | 3 | CG    | DOL  | Effectron |

| Inventory of Motors & Pumps at STP |                  |                                                         |                  |             |           |                    |      |
|------------------------------------|------------------|---------------------------------------------------------|------------------|-------------|-----------|--------------------|------|
| Sr. No.                            | Location         | Type of Motor & Pump (Open Well/ Submersible /Borewell) | Rating of Motors |             |           | Details of Starter |      |
|                                    |                  |                                                         | HP               | 01/03 Phase | Make      | DOL/ FASD          | Make |
| 1                                  | STP              | Open Well                                               | 10               | 3           | -         | FASD               | LT   |
| 2                                  | STP              | Open Well                                               | 10               | 3           | -         | FASD               | LT   |
| 3                                  | STP              | Submersible                                             | 15               | 3           | Kirloskar | FASD               | LT   |
| 4                                  | STP              | Submersible                                             | 15               | 3           | -         | FASD               | LT   |
| 5                                  | STP              | Submersible Mud Pump                                    | 10               | 3           | -         | FASD               | LT   |
| 6                                  | STP at ESS No.01 | Open Well                                               | 3                | 3           | Kirloskar | DOL                | LT   |

4. This work includes repair/replacement of spare parts as rewinding work, repair of rotor/stator/pump/shaft, replacement of bush/bearing, starter panel relay/contactors/mcb/isolator etc. complete in all respects.
5. Cleaning and preventive maintenance of Solar /Electric Road Lights on quarterly basis.
6. 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.
7. Maintenance of rooftop solar water heaters.
8. Indicative maintenance items are as under:
  - Wiring/Cabling. • Metal/PVC boxes. • Switches, sockets and accessories of different ratings.
  - 01phase/03 phase power points & circuits. • 01/03 phase Energy Meters. • Light points/ Fan pts/ Exhaust Fan pts/Call bell pts. etc. • All type of indoor and outdoor lights (Conventional/LED/HPSV/MVSV etc.) • All type of fans (Ceiling/Exhaust/Pedestal/Wall).
  - HVLS fans. • Water heaters. • Auditorium stage lights. • Air curtains and electric fly

catchers.

- Rising mains bus trunking and overhead bus bar of different ratings.
- Sandwich rising mains with aluminium bus bar of different ratings.
- Switch, disconnector, SFU and MCCB of different ratings.

- MCBs, Isolators, RCCBs and MCB DBs of different ratings.
- Cable and Boxes of different sizes.
- Brass compression glands of different sizes.
- Aluminium lugs of different sizes.
- HT/LT Cable fault detections and jointing kits.
- Overhead electric line.
- Road lights.
- Lightning arrester and earthing system.
- All Electrical indoor and outdoor panels and panel rooms of all buildings.
- Maintenance of records etc. as per tender document.

9. 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.
10. Lesioning with local Authorities in case of faults / breakdown etc.
11. 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 shall be done during monsoon season, as per CPWD specifications.
  - (d) Earth test etc.
12. 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.
13. All stationary, general cleaning material, insulation tapes, nut-bolts, lugs of all types, anti-rust/corrosion sprays, sundry, tools, tackles, ladders of different heights and machineries etc. required for all electrical maintenance works shall be arranged by the tenderer and nothing extra shall be payable on this account.
14. The electrical consumable items shall be provided by the University to the agency/contractor, in accordance with the BOQ.
15. It will be the responsibility of the agency to ensure smooth functioning of all above by maintaining regular inspection at his own and to submit the inspection report to the University on regular basis.
16. The tenderer shall depute sufficient qualified and experienced staff of various trades such as Site Engineer / Supervisor, Wiremen, Pump House Operators, Khalasi, or as per the requirement, for attending the day to day maintenance work, as per the requirement of infrastructure of the University.
17. All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of the Central University of Rajasthan.
18. 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 by University.
19. 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 within a time limit, failing which the work shall be got done at the risk and cost of the contractor.

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

**Note:** Bidders need to simply quote rates for the items given in 'Annexure – VII' in Part-B, through 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 or otherwise, as per the discretion of the Competent Authority of CU Rajasthan. For the works, if provided under this part, the agency will be paid for the works provided on an actual basis only.

iii. **SH – III Comprehensive AMC Work of Online UPS(s) of different ratings installed in CURaj**

- (i) Under this schedule, the agency/contractor has to carry out the Comprehensive AMC Work of Online UPS installed in various buildings of CURaj, including site visits, servicing, labour, machinery, spare parts, consumables, tools & plants etc. complete in all respects, as per standard practice and directions of University.
- (ii) Makes of Online UPS installed at site are: Luminous, BPE, Uniline, APC, Eaton, Legrand, Numeric etc. An indicative list of available online UPS is as under:

|                                                                                      |
|--------------------------------------------------------------------------------------|
| 14 Nos. 1 kVA Online UPS                                                             |
| 09 Nos. 2 kVA to 3 kVA Online UPS                                                    |
| 08 Nos. 5 kVA to 6 kVA Online UPS                                                    |
| 02 Nos. 10 kVA Online UPS                                                            |
| 04 Nos. 15 kVA to 20 kVA Online UPS                                                  |
| 02 Nos. 40 kVA Online UPS                                                            |
| 02 Nos. 60 kVA Online UPS Make- EATON                                                |
| 01 No. 250 kVA KEOR Modular Centralized UPS with Isolation Transformer, Make-Legrand |

- (iii) 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 or as directed by the University.
- (iv) 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.
- (v) This work includes repair/replacement of spare parts as rectifier, inverter, transformer, static switches, capacitors, indicators, CT, PT, charger, wiring, diodes, SCR, IGBT, checking of battery bank connections and battery voltages etc. complete in all respects.
- (vi) 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.
- (vii) Breakdown Calls – The Online UPS should be attended within 30 min. time as and when the fault is reported.
- (viii) The old damaged / faulty spare parts shall be the property of the University.
- (ix) 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 University.
- (x) 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.
- (xi) The reports of preventive maintenance, preventive maintenance register/file shall be submitted to the University. Apart from the preventive maintenance visits, any breakdown calls in between emanating from the user will also be attended to without any additional charge.

- (xii) 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.
- (xiii) 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.
- (xiv) It will be the responsibility of the agency to ensure smooth functioning of all above by maintaining regular inspection at his own and to submit the inspection report to the University on regular basis.
- (xv) The tenderer shall depute sufficient number of qualified and experienced staff as per the requirement, for attending the day to day maintenance work, as per the requirement of the University.
- (xvi) All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of the Central University of Rajasthan.

#### **SH – IV - Comprehensive AMC Work of Water Coolers installed in CURaj.**

- i) Under this schedule, the agency/contractor has to carry out the Comprehensive Annual Maintenance of 86 Nos. Water Coolers 100-150 LPH capacity each installed in various buildings of CURaj, including site visits, servicing, labour, machinery, spare parts, consumables, tools & plants etc. complete in all respects, as per standard practice and directions of University, as per standard practice and directions.
- ii) Indicated quantity of water coolers is 86 Nos. 100-150 LPH capacities each of Make-Sidwal, Voltas, Usha, etc.
- iii) This work includes repair/replacement of spare parts as compressor, fan motor, fan blades, condenser, evaporator, thermostat, relay, capillary tube/expansion valve, float valve, dispensing taps, drip tray, water outlet pipe, wiring, plug top, leakage welding, green refrigerant charging and wiring works, etc. complete in all respects. The agency/contractor shall use the spare parts & material of IS and reputed brands/OEM or as directed by the University.
- iv) 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.
- v) Breakdown Calls should be attended within 30 min. time as and when the fault is reported without any additional charge.
- vi) The old parts removed from the water coolers will become the property of University.
- vii) 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 University.
- viii) 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.
- ix) The reports of preventive maintenance, preventive maintenance register/file shall be submitted to the University.
- x) 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.
- xi) 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.
- xii) It will be the responsibility of the agency to ensure smooth functioning of all above by maintaining regular inspection at his own and to submit the inspection report to the University on regular basis.
- xiii) The tenderer shall depute sufficient qualified and experienced staff as per the requirement, for attending the day to day maintenance work, as per the requirement of the University.
- xiv) All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of the Central University of Rajasthan.

iv. **SH – V - Comprehensive AMC Work of HVAC System (Ductable / VRV-VRF / Cassate / Split / Tower / Window Type Air Conditioners and ETAC System) installed in CURaj.**

- i) 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, including site visits, servicing, labour, machinery, spare parts, consumables, tools & plants etc. complete in all respects, as per standard practice and directions of University.
- ii) This CAMC Work includes servicing, repair & maintenance of all above systems comprising of manpower, machinery, tools & plants, consumables etc. complete in all respects as per standard practice and directions.
- iii) Brief description of available Ductable / VRV-VRF / Cassate / Split / Tower / Window Type Air Conditioners and ETAC System is as under:

|                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 100 hp rated inverter technology based VRV/VRF type Air Conditioning System installed in CIL Building. Make: Hitachi                                                                          |
| 40 hp rated inverter technology based VRV/VRF type Air Conditioning System installed in VCS, Admin Building. Make: Hitachi                                                                    |
| 16 Nos. 11.0 TR capacity Ductable Air conditioning units with Scroll Compressor with R 410 A Refrigerant, vibration isolators etc. complete. Make: Hitachi                                    |
| 03 Nos. 5.5 TR capacity Ductable Air conditioning units with Scroll Compressor, R 410 A Refrigerant, vibration isolators etc. complete. Make: Carrier                                         |
| 03 Nos. Ceiling-mounted 3.0 TR Cassette Air Conditioning units complete. Make: Bluestar                                                                                                       |
| 02 Nos. Wall mounted Precision Air-conditioning Units of 2.8 TR installed in CIL Building<br>UPS Room.<br>Make: Vertiv<br>Model: SRC07ET, Liebert SRC, Air Conditioning Machine (Three Phase) |
| 500 Nos. Window/Split/Tower type air conditioners.                                                                                                                                            |
| 02 Nos. 30000 CFM, Air ducting system (ETAC)                                                                                                                                                  |
| 04 Nos. 28000 CFM, Air ducting system (ETAC)                                                                                                                                                  |
| 02 Nos. 10000 CFM, Air ducting system (ETAC)                                                                                                                                                  |
| 02 Nos. 4000 CFM, Air ducting system (ETAC)                                                                                                                                                   |

- iv) 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.
- v) This work includes repair/replacement of spare parts as compressor, condensing coil, evaporator coil, expansion valve, refrigerant top up/charging, leakage detection, pressure testing, blower & fan, filters, thermostat, capacitor, contactor, drain pipe, pcb, mcb, isolator, semiconductor devices, control devices, wiring, relay, condenser, sensor, accumulator, remote, pads, grills, water pump, motor etc. complete in all respects.
- vi) The agency/contractor shall use good quality spare parts, preferably of the same brand as available in the original system or as directed by the University.
- vii) 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.

- viii) Breakdown Calls should be attended within 30 min. time as and when the fault is reported.
- ix) 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 System, the same will be replaced by the contractor at his own cost and the System will be kept in fully operational state all times during the contract period.
- x) Preventive Maintenance: The service personnel of agency/contractor will visit the installation sites for general checkup of all the systems and submit the reports to the University as per standard practice.
- xi) The agency/contractor shall be responsible for preventive and corrective repair & maintenance of all the systems 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 the systems. The reports of preventive maintenance, preventive maintenance register/file shall be submitted to the University.
- xii) It shall be the responsibility of the agency/contractor to maintain all the systems in working condition throughout the contract period and to hand over the same in working condition to the CURAJ after expiry of the contract.
- xiii) It will be the responsibility of the agency to ensure smooth functioning of all above by maintaining regular inspection at his own and to submit the inspection report to the University on regular basis.
- xiv) The tenderer shall depute sufficient number of qualified and experienced staff as per the requirement, for attending the day to day maintenance work, as per the requirement of the University.
- xv) All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of the Central University of Rajasthan.

v. **SH – VI - Comprehensive Annual Operation, Repair and Maintenance of 05 Nos. electric sub-stations, Electric HT & LT Lines and 05 numbers DG Sets at CURaj.**

- i) Comprehensive Annual Repair, Maintenance & Operation of 01 No. 33/11 kV Outdoor Type Main Receiving Electric Sub-Station. It includes 02 nos. 3.15 MVA power transformers, 33 kV VCBs, 11 kV VCBs, one 25 kVA Auxiliary Transformer, Mounting Structure, earthing, feeders, bus-bars, insulators, GOs, clamps, conductors, jumpers, fuse wires, connections etc. complete.  
This work includes manpower for operational purpose, labour, machinery, spare parts, consumables, tools & plants etc. complete in all respects, as per standard practice and directions of UNIVERSITY.
- ii) Comprehensive Annual Repair, Maintenance & Operation of 04 Nos. 11/0.433 kV indoor type electric sub-stations through OEM/Authorized Service Agents of OEM only (L&T Switchgear / Lauritz Knudsen or Schneider Electric) being the specialized work, including manpower for operational purpose, labour, machinery, spare parts, Control Panel Batteries, consumables, tools & plants etc. complete in all respects, as per standard practice and directions of UNIVERSITY.
- iii) Comprehensive Annual Repair and Maintenance of following DG Sets along with associated AMF Panels through OEM/Authorized Service Agents of OEM only being the specialized work, including manpower, labour, machinery, spare parts, batteries, consumables, tools & plants etc. complete in all respects, as per standard practice and directions of EIC.
- iv) Comprehensive Annual Repair, Maintenance & Operation of 2000 meter long 03 Phase, 11 kV Overhead High Tension Electric Line between 33/11 kV Outdoor Type Main Receiving Electric Sub-Station and ESS No-01.  
This work includes inspection & patrolling of lines, resagging of 33/11 kV conductor section/earth wire, binding/re-binding/replacement of conductor/jumper, strengthening of cross arms with clamps, tightening/replacement of nut bolts, removal of bird's nest and foreign material from line, tree/bush trimming under the line, numbering of poles, replacement of 33/11 kv conductor, insulators, cross arms, clamps, stay wire, guy wire, pole alignment etc. as required on site complete. This excludes pole replacement, underground cable repair/replacement.
- v) Comprehensive Annual Repair, Maintenance & Operation of 4000 meter long 03 Phase, 415 V Overhead Low Tension Electric Line between Pump House No-02, Mines and Barrack.  
This work includes inspection & patrolling of lines, resagging of conductor section/earth wire, binding/re-binding/replacement of conductor/jumper, strengthening of cross arms with clamps, tightening/replacement of nut bolts, removal of bird's nest and foreign material from line, tree/bush trimming under the line, numbering of poles, replacement of conductor, insulators, cross arms, clamps, stay wire, guy wire, pole alignment etc. as required on site complete. This excludes pole replacement, underground cable repair/replacement.
- vi) Repair & Maintenance of HT/LT 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.
- vii) 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.

- viii) All the works shall be carried out as per CPWD General Specifications for Electrical Works, Part-I (Internal)-2023, Part-II (External)- 2023, Sub-Station Part IV-2013 & DG Sets Part-VII-2013 and should also comply with relevant provisions of the Indian Electricity Rules /Acts as applicable, amended up to date.
- ix) 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 University 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.
- x) This work includes one power house engineer (highly skilled or above) in general shift and 24x7x365 days manning at all 05 Nos. electric sub-stations 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.
- xi) 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.
- xii) The maintenance of ESS and DG Sets shall be uninterrupted service, if any breakdown is attributed, suitable recoveries shall be made as per decision of University.
- xiii) Contractor shall ensure that, emergency spare parts are available on site readily for attending the breakdowns.
- xiv) The agency/contractor shall be responsible for preparation & maintenance of all records, break down reports etc. and timely submission to the University.
- xv) The details of DG sets are as under:

| Sr. No. | Description of Item                                    | Qty. | Unit |
|---------|--------------------------------------------------------|------|------|
| 1       | 250 KVA DG Set, Make – Kirloskar, Model No.- 6SL8800TA | 1    | No.  |
| 2       | 250 KVA DG Set, Make – Cummins, Model No.- 25775463    | 1    | No.  |
| 3       | 380 KVA DG Set, Make – Cummins, Model No.- 25398033    | 1    | No.  |
| 4       | 500 KVA DG Set, Make – Cummins, Model No.- 25417171    | 1    | No.  |
| 5       | 500 KVA DG Set, Make – Cummins, Model No.- 25416790    | 1    | No.  |

This schedule includes the operation, checking & testing the DG Sets on daily basis & as required, monitor the DG Set data, load, voltage etc., maintain the register/log book. Minor day to day issues occurred in DG Sets also shall be attended for immediate resolution in order to keep the DG Sets ready to function in case of power outages.

- xvi) 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 regular basis, attending unlimited breakdown calls, repair works and preventive maintenance including all checks replacement of filters, lubricant, coolant, etc., as recommended by respective OEM as per standard practice and directions of University. This work includes all taxes, duties, labour, consumables, tools & plants, sundry, repair works and replacement of any type of spare part/component, etc., as required on site.
- xvii) This work includes repair/replacement of fuel system, cooling & exhaust system, lubrication system, voltage regulator, AMF Panel parts, battery charger & battery, radiator parts, relay, contactor, timer, mcb, mccb, display unit, electro-mechanical parts, wiring, blower & fan, motor, nozzle, valves, nrv, connecting hoze pipes, radiator cleaning, door locks, diodes,

distill water, self-starter, leakages, diesel tank cleaning, general cleaning, minor repair works etc. as required.

- xviii) This work also includes servicing, maintenance, A,B,C,D checks, calibration/updation and other maintenance works of DG Sets to upkeep them functional throughout the CMC and shall be carried out by the agency/contractor as per respective OEM Manuals, standard practice and directions of University.
- xix) This work excludes repair of engine & alternator, alternator rewinding, replacement of equipment/parts like- alternator, engine, radiator, panel, pistons & rings, major overhauling works etc.
- xx) 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.
- xxi) Design, erection, installation, testing & commissioning of 'Silencer Extension Work of 380 kVA capacity DG Set' installed at ESS No-20.7, as per CPWD/CPCB Norms including material, parts, labour, machinery, consumables, tools & plants etc. complete in all respect, as per standard practice and directions of University.  
Note: Civil Structural design & drawing should be submitted duly vetted through IIT/NIT/Govt. Engineering College.
- xxii) This work also comprises the Comprehensive Annual Operation and Maintenance work of all electric sub-stations 04 Nos. 11/0.433 kV indoor type electric sub-stations through OEM/Authorized Service Agents of OEM only (L&T Switchgear / Lauritz Knudsen or Schneider Electric) being the specialized work, including manpower for operational purpose, labour, machinery, spare parts, Control Panel Batteries, consumables, tools & plants etc. complete in all respects, as per standard practice and directions of university, 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.
- xxiii) This work includes general R&M of ESS on monthly basis, preventive R&M on quarterly basis, annual servicing and unlimited breakdown calls through qualified & experienced persons as per OEM's standard guidelines & service manuals.
- xxiv) This work includes power house operators (skilled category) manning in all three shifts on 24\*7\*365 days basis at all 04 ESS including rest relievers; for the purpose of ESS operation, ward & watch of ESS equipment, monitoring of load, voltage, main incoming feeder power supplies, co-ordination with local discom in case of fault/breakdown/load shedding, record maintenance etc.
- xxv) The details of 05 ESS are as follows:

| Sr. No.  | Description of Major Items             | Make               | Qty. | Unit |
|----------|----------------------------------------|--------------------|------|------|
| <b>A</b> | <b>11/0.433 kV Indoor ESS No. 19.1</b> |                    |      |      |
| 1        | 11 kV HT Panels with auxiliaries       | Schneider Electric | 08   | Nos. |
| 2        | 11 kV VCB                              |                    |      |      |
| 2.1      | 800 amp. Rated                         | Schneider Electric | 04   | Nos. |
| 2.2      | 1250 amp. Rated                        | Schneider Electric | 03   | Nos. |
| 3        | 24 V Battery Charger Unit with battery | Voltron            | 01   | No.  |

|          |                                                                                                                                                           |                    |    |      |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----|------|
|          | bank (04 nos. batteries of 100 Ah, 12 V each)                                                                                                             |                    |    |      |
| 4        | 11/0.433 kV, 2000 kVA indoor type transformers with auxiliaries and integrated RTCC Panel                                                                 | Kirloskar Electric | 02 | Nos. |
| 5        | LT Panels with auxiliaries                                                                                                                                | Schneider Electric | 23 | Nos. |
| 6        | APFC LT Panels with auxiliaries                                                                                                                           | Schneider Electric | 05 | Nos. |
| 7        | ACB                                                                                                                                                       |                    |    |      |
| 7.1      | 800 amp. Rated                                                                                                                                            | Schneider Electric | 03 | Nos. |
| 7.2      | 1250 amp. Rated                                                                                                                                           | Schneider Electric | 05 | Nos. |
| 7.3      | 2000 amp. Rated                                                                                                                                           | Schneider Electric | 11 | Nos. |
| 7.4      | 3200 amp. Rated                                                                                                                                           | Schneider Electric | 04 | Nos. |
| 8        | Relays (feeder protection relay, master trip relay, trafo fault relay, O/V relay, Current Protection relay, E/F relay, APFC relay, etc.) on HT/LT panels. |                    | 33 | Nos. |
| 9        | Inter-connecting bus bars, multifunction meters and other equipment installed on site.                                                                    |                    |    |      |
|          |                                                                                                                                                           |                    |    |      |
| <b>B</b> | <b>11/0.433 kV Indoor ESS No. 19.2</b>                                                                                                                    |                    |    |      |
| 1        | 11 kV HT Panels with auxiliaries                                                                                                                          | Schneider Electric | 08 | Nos. |
| 2        | 11 kV VCB                                                                                                                                                 |                    |    |      |
| 2.1      | 800 amp. Rated                                                                                                                                            | Schneider Electric | 04 | Nos. |
| 2.2      | 1250 amp. Rated                                                                                                                                           | Schneider Electric | 03 | Nos. |
| 3        | 24 V Battery Charger Unit with battery bank (04 nos. batteries of 100 Ah, 12 V each)                                                                      | Voltron            | 01 | No.  |
| 4        | 11/0.433 kV, 2000 kVA indoor type transformers with auxiliaries and integrated RTCC Panel                                                                 | Kirloskar Electric | 02 | Nos. |
| 5        | LT Panels with auxiliaries                                                                                                                                | Schneider Electric | 25 | Nos. |
| 6        | APFC LT Panels with auxiliaries                                                                                                                           | Schneider Electric | 05 | Nos. |
| 7        | ACB                                                                                                                                                       |                    |    |      |
| 7.1      | 1250 amp. Rated                                                                                                                                           | Schneider Electric | 07 | Nos. |
| 7.2      | 2000 amp. Rated                                                                                                                                           | Schneider Electric | 07 | Nos. |
| 7.3      | 2500 amp. Rated                                                                                                                                           | Schneider Electric | 04 | Nos. |
| 7.4      | 3200 amp. Rated                                                                                                                                           | Schneider Electric | 04 | Nos. |
| 8        | Relays (feeder protection relay, master trip relay, trafo fault relay, O/V relay, Current Protection relay, E/F relay, APFC relay, etc.) on HT/LT panels. |                    | 33 | Nos. |
| 9        | Inter-connecting bus bars, multifunction meters and other equipment installed on site.                                                                    |                    |    |      |
|          |                                                                                                                                                           |                    |    |      |
| <b>C</b> | <b>11/0.433 kV Indoor ESS No. 20.7</b>                                                                                                                    |                    |    |      |
| 1        | 11 kV HT Panels with auxiliaries                                                                                                                          | Schneider Electric | 06 | Nos. |
| 2        | 11 kV VCB                                                                                                                                                 |                    |    |      |

|          |                                                                                                                                                           |                               |    |      |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----|------|
| 2.1      | 800 amp. Rated                                                                                                                                            | Schneider Electric            | 02 | Nos. |
| 2.2      | 1250 amp. Rated                                                                                                                                           | Schneider Electric            | 03 | Nos. |
| 3        | 24 V Battery Charger Unit with battery bank (02 nos. batteries of 100 Ah, 12 V each)                                                                      | Voltron                       | 01 | No.  |
| 4        | 11/0.433 kV, 1000 kVA indoor type transformers with auxiliaries and integrated RTCC Panel                                                                 | Kirloskar Electric            | 01 | No.  |
| 5        | LT Panels with auxiliaries                                                                                                                                | Schneider Electric            | 13 | Nos. |
| 6        | APFC LT Panels with auxiliaries                                                                                                                           | Schneider Electric            | 04 | Nos. |
| 7        | ACB                                                                                                                                                       |                               |    |      |
| 7.1      | 800 amp. Rated                                                                                                                                            | Schneider Electric            | 05 | Nos. |
| 7.2      | 1000 amp. Rated                                                                                                                                           | Schneider Electric            | 03 | Nos. |
| 7.3      | 1600 amp. Rated                                                                                                                                           | Schneider Electric            | 02 | Nos. |
| 8        | Relays (feeder protection relay, master trip relay, trafo fault relay, O/V relay, Current Protection relay, E/F relay, APFC relay, etc.) on HT/LT panels. |                               | 19 | Nos. |
| 9        | Inter-connecting bus bars, multifunction meters and other equipment installed on site.                                                                    |                               |    |      |
|          |                                                                                                                                                           |                               |    |      |
| <b>D</b> | <b>11/0.433 kV Indoor ESS No. 01</b>                                                                                                                      |                               |    |      |
| 1        | 11 kV HT Panels with auxiliaries                                                                                                                          | CG, Schneider Electric        | 05 | Nos. |
| 2        | 11 kV VCB                                                                                                                                                 |                               |    |      |
| 2.1      | 630 amp. Rated                                                                                                                                            | CG                            | 04 | Nos. |
| 2.2      | 1250 amp. Rated                                                                                                                                           | Schneider Electric            | 01 | No.  |
| 3        | 24 V Battery Charger Unit with battery bank (02 nos. batteries of 100 Ah, 12 V each)                                                                      |                               | 01 | No.  |
| 4        | 11/0.433 kV, 1000 kVA indoor type transformers with auxiliaries                                                                                           | CG                            | 02 | Nos. |
| 5        | LT Panels with auxiliaries                                                                                                                                | Milestones                    | 17 | Nos. |
| 6        | APFC LT Panels with auxiliaries                                                                                                                           | Milestones                    | 06 | Nos. |
| 7        | ACB                                                                                                                                                       |                               |    |      |
| 7.1      | 630 amp. Rated                                                                                                                                            | L&T                           | 11 | Nos. |
| 7.2      | 1600 amp. Rated                                                                                                                                           | L&T                           | 03 | Nos. |
| 8        | Relays (feeder protection relay, master trip relay, trafo fault relay, O/V relay, Current Protection relay, E/F relay, APFC relay, etc.) on HT/LT panels. |                               | 16 | Nos. |
| 9        | Outdoor type 11 kV, 630 amp. rated RMU                                                                                                                    | CG Lucy                       | 03 | Nos. |
| 10       | 11/0.433 kV, 100 kVA outdoor type transformer with auxiliaries                                                                                            | Indian Transformer & Electric | 01 | No.  |
| 11       | Inter-connecting bus bars, multifunction meters and other equipment installed on site.                                                                    |                               |    |      |
|          |                                                                                                                                                           |                               |    |      |

| <b>E</b> | <b>33/11 KV Outdoor MRS</b>                         |                                 |    |             |
|----------|-----------------------------------------------------|---------------------------------|----|-------------|
| 1        | 33/11 KV, 3.15 MVA Power Transformer                | Modern Transformers             | 02 | Nos.        |
| 2        | 33/36 KV, 1250 A VCB                                | CG                              | 03 | Nos.        |
| 3        | 11/12 KV, 800A VCB                                  | Asiatic Electrical & Switchgear | 03 | Nos.        |
| 3        | 11/12 KV, 630A VCB                                  | Stelmec Ltd.                    | 01 | No.         |
| 4        | 33 KV 630A GO Set without E/B & with Post Insulator | -                               | 03 | Nos.        |
| 5        | 11 KV 400A GO Set without E/B & with Post Insulator | -                               | 07 | Nos.        |
| 6        | 33 KV/10 KA LA                                      | -                               | 03 | Nos.        |
| 7        | Earthing Set M.S. Rod/Pipe Type                     | -                               | 08 | Nos.        |
| 8        | 11 KV Horn Gap fuse H/W with post insulator         | -                               | 01 | No.         |
| 9        | 11/0.415 KV, 25 KVA Distribution Transformer        | -                               | 01 | No.         |
| 10       | M.S./RCC Framed Mounting Structure                  | -                               |    | As on Site. |
| 11       | Lighting Fixture & other petty items                | -                               |    |             |
| 12       | Dog/Panther Conductor                               | -                               |    |             |
| 13       | Bus-Bar, Jumpers, Connectors, Fuse Wires etc.       |                                 |    |             |

xxvi) This work includes repair of ACB, VCB, RMU, HT/LT Panels, relays, coils, transformer, bucholz relay, wtm, otm, control panel, MCB, MCCB, contactors, timer, wiring, RTCC Panel, APFC Panel, bus-bars, mf meters, transformer oil dehydration & top up as required, indicators, selector switches, electro-mechanical parts of ESS equipment and associated auxiliary items.

xxvii) This work also includes replacement of relays, coils, transformer auxiliaries, bucholz relay, wtm, otm, control panel batteries, MCB, MCCB, contactors, timer, capacitors, reactors, mf meters, indicators, selector switches, electrical wiring, control wiring, control switches, calibration/updation, electro-mechanical parts of ESS equipment and associated auxiliary items. This work excludes, rewinding of transformer, replacement of sub-station equipment, major overhauling works etc.

xxviii) The maintenance of Electric Sub-Stations shall be uninterrupted service, if any breakdown/damage is attributed on part of the contractor/agency, suitable recoveries shall be made as per decision of University.

xxix) 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 University 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 University. 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.

xxx) 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.

- xxxix) 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.
- xxxii) It will be the responsibility of the agency to ensure smooth functioning of all above by maintaining regular inspection at his own and to submit the inspection report to the University on regular basis.
- xxxiii) The tenderer shall depute sufficient number of qualified and experienced staff as per the requirement of the University.
- xxxiv) All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of the Central University of Rajasthan.
- xxxv) 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.
- xxxvi) The reports of preventive maintenance, preventive maintenance register/file shall be submitted to the University. Apart from the preventive maintenance visits, any breakdown calls in between emanating from the user will also be attended to without any additional charge.
- xxxvii) It shall be the responsibility of the agency/contractor to maintain the Electric Sub-Stations in working condition and their general maintenance throughout the contract period and to hand over the same in working condition to the CURAJ after expiry of the contract.
- xxxviii) The routine preventive maintenance of Electric Sub-Stations shall be carried out preferably on Saturdays/Sundays/holidays to ensure minimum disturbance to the client department.
- xxxix) 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 also be arranged by the agency/contractor and nothing extra shall be paid on this account.
- xl) For the purpose, the agency/contractor shall have to execute a Standard MOU in detail with OEM / Authorized Service Agent of OEM immediately after issue of LoA.

vi. **SH – VII - Comprehensive Annual Operation, Repair and Maintenance of 14 nos. lifts at CURaj.**

- i) Comprehensive Annual Repair & Maintenance of 14 nos. Johnson make, machine room less passenger lifts along with associated panels etc. through OEM/Authorized Service Agents of OEM only (Johnson Lifts) being the specialized work, including manpower, labour, machinery, spare parts, consumables, tools & plants etc. complete in all respects, as per standard practice and directions of University.
- ii) For the purpose, the agency/contractor shall have to execute MOU with OEM / Authorized Service Agent of OEM immediately after issue of LoA.
- iii) The lift car shall be maintained properly. Following monthly checks shall be performed and recorded before putting the lifts in operation:-
  - a) Landing Locks
  - b) Movement of car with gate open.
  - c) Try to open the gate when car is moving.
  - d) Car gate switch
  - e) Movement of car with gate open
  - f) Open the gate while car is moving
  - g) Door operation safety, functioning of emergency stop button, call bell, car lights etc.
  - h) ARD check, etc.
- iv) 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 the University.
- v) Inventory is as follows:

| Sr. No. | Details of Lifts                              | Lift No. | Qty. | Unit | Location        |
|---------|-----------------------------------------------|----------|------|------|-----------------|
| 1       | 13 passenger duplex lifts, machine room less  | LG-7641  | 01   | Each | 4A-4 Building   |
| 2       |                                               | LG-7642  | 01   | Each | 4A-4 Building   |
| 3       | 13 passenger simplex lifts, machine room less | L-G7643  | 01   | Each | 4A-4 Building   |
| 4       |                                               | L-G7644  | 01   | Each | 4A-5 Building   |
| 5       | 13 passenger duplex lifts, machine room less  | L-G7645  | 01   | Each | 4A-5 Building   |
| 6       |                                               | L-G7646  | 01   | Each | 4A-5 Building   |
| 7       |                                               | L-G7647  | 01   | Each | 4A-3 Building   |
| 8       |                                               | L-G7648  | 01   | Each | 4A-3 Building   |
| 9       |                                               | L-G7649  | 01   | Each | 4A-6 Building   |
| 10      |                                               | L-G7650  | 01   | Each | 4A-6 Building   |
| 11      | 13 passenger simplex lifts, machine room less | L-G7661  | 01   | Each | Guest House     |
| 12      |                                               | L-G7664  | 01   | Each | Admin. Building |
| 13      |                                               | LG-7665  | 01   | Each | Admin. Building |
| 14      | 10 passenger simplex lifts, machine room less | LG-7666  | 01   | Each | Admin. Building |

- vi) The Agency / Contractor have to depute one (01) lift operator during contract period in general shift at all days including Sundays and holidays and as per the requirement of the University.
- vii) The tenderer shall make alternate arrangement in case of absence of lift operator, failing which; a suitable recovery will be levied.
- viii) Breakdown Calls should be attended within 30 min. time as and when the fault is reported.
- ix) It will be the responsibility of the agency/company to ensure proper functioning of all the lifts round o'clock. In case of non-functioning of lifts appropriate penalty will be levied.
- x) Checklist as per logbook should be filled as per schedule i.e. daily check, weekly check, monthly check, quarterly check, annual check, etc.
- xi) 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.
- xii) Any accident involving damage to human life, lift machinery equipment, etc., 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.
- xiii) 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.
- xiv) 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.
- xv) It will be the responsibility of the agency to ensure smooth functioning of all above by maintaining regular inspection at his own and to submit the inspection report to the University on regular basis.
- xvi) The tenderer shall depute sufficient number of qualified and experienced staff as per the requirement of the University.
- xvii) All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of the Central University of Rajasthan.
- xviii) All the works shall be carried out as per CPWD General Specifications for Electrical Works, Part-I (Internal)-2023, Part-II (External)- 2023, Part-III Lift & Escalators-2003 and should also comply with relevant provisions of the Indian Electricity Rules /Acts as applicable, amended up to date.
- xix) 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 University 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.
- xx) This work includes servicing, safety tests, all necessary checks as per OEM, repair/replacement of- all kind of displays, car lights & fans, buttons, buzzer, alarm bell, ARD, battery, safety devices, all electro-mechanical parts of the lift, electronic components and associated auxiliary items, refinishing, repairing of car enclosures, car flooring, hoist way enclosure, hoist way & car door, door & gate handles, door beading, door glasses, door frames, sills, push box covers in landing, car electric incoming mains, main switch, EPABX telephone intercom, access control system, mirror.
- xxi) The agency/contractor shall liason and coordinate with the local authorities in order to

get the clearance/safety certificate of lifts, wherever applicable.

vii. **SH – VIII - Comprehensive Annual Repair & Maintenance Work of Fire Hydrant System, Fire Extinguishers, and Fire Alarm System installed at CURaj.**

- i) Comprehensive Annual Maintenance Work of Fire Hydrant System, Fire Extinguishers and Fire Alarm System including associated equipment installed in various building of the University complete in all respects including manpower, material, spare parts and consumables, tools & plants etc., complete in all respects, as per standard practice and directed by the University.
- ii) The Fire Hydrant System, Fire Extinguishers 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 University.
- iii) All the repair / replacement of spare parts, consumables, manpower and machinery etc. as required on site are included and nothing shall be paid extra in this regard.
- iv) The agency/contractor shall use good quality spare parts, preferably of the same brand as available in the original system or as directed by the University.
- v) 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 University after expiry of the contract.
- vi) The reports of preventive maintenance, preventive maintenance register/file shall be submitted to the University.
- vii) 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.
- viii) It will be the responsibility of the agency to ensure smooth functioning of all above by maintaining regular inspection at his own and to submit the inspection report to the University on regular basis.
- ix) All the works shall be carried out as per CPWD General Specifications for Electrical Works, Part-I (Internal)-2023, Part-II (External)- 2023, Part VI Fire Detection and Alarm System – 2018 and should also comply with relevant provisions of the Indian Electricity Rules /Acts as applicable, amended up to date.
- x) 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 University 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.
- xi) This work includes repair/replacement/updating of riser, pump sets, panels, relay, contactor, mcb, mccb, connectors, wiring, hose reel drum, RRL hose pipe, hydrant valve, branch pipe, FBC, FHC, stainer, valves, pressure gauge, pressure switch, smoke/heat detector, hooter, MCP, speaker, telephone jack and other associated electronic components etc. complete in all respects.
- xii) The tenderer shall depute sufficient number of qualified and experienced staff as per the requirement of the University.
- xiii) All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of the Central University of Rajasthan.
- xiv) The details of Fire Extinguishers available in the University are given below:

|                             |      |     |
|-----------------------------|------|-----|
| CO2 type 4.5 litre capacity | Each | 100 |
| ABC dry chemical powder     | Each | 50  |

**Details of buildings equipped with fire hydrant & alarm system are attached below.-**

| <b>Sr. No.</b> | <b>Name of Building</b>                    | <b>Number of Floors</b> | <b>Status</b> | <b>Total BUA Area (Sq.mt.)</b> | <b>Fire Hydrant System (Installed / Not-Installed)</b> | <b>Fire Alarm System (Installed / Not-Installed)</b> |
|----------------|--------------------------------------------|-------------------------|---------------|--------------------------------|--------------------------------------------------------|------------------------------------------------------|
| 1              | Academic Building 4A3                      | G+3                     | Completed     | 10993.31                       | Yes                                                    | Yes                                                  |
| 2              | Academic Building 4A4                      | G+2                     | Completed     | 7923.18                        | Yes                                                    | Yes                                                  |
| 3              | Academic Building 4A-5                     | G+2                     | Completed     | 7924.76                        | Yes                                                    | Yes                                                  |
| 4              | Academic Building 4A-6                     | G+3                     | Completed     | 10994.35                       | Yes                                                    | Yes                                                  |
| 5              | Administrative Building                    | G+2                     | Completed     | 6469.64                        | Yes                                                    | Yes                                                  |
| 6              | Guest House                                | G+2                     | Completed     | 7951.92                        | Yes                                                    | Yes                                                  |
| 7              | V.C. Residence                             | G                       | Completed     | 706.39                         | No                                                     | No                                                   |
| 8              | Staff Quarters Type-B Block-12B-9          | G+2                     | Completed     | 1429.64                        | Yes                                                    | No                                                   |
| 9              | Staff Quarters Type-B Block-12B-10         | G+2                     | Completed     | 1429.64                        | Yes                                                    | No                                                   |
| 10             | Staff Quarters Type-B Block-12B-11         | G+2                     | Completed     | 1429.64                        | Yes                                                    | No                                                   |
| 11             | Staff Quarters Type-B Block-12B-12         | G+2                     | Completed     | 1429.64                        | Yes                                                    | No                                                   |
| 12             | Yoga Building                              | G+1                     | Completed     | 1780.9                         | Yes                                                    | No                                                   |
| 13             | Central Instrumentation Facility Lab (CIL) | G                       | Completed     | 1559.93                        | Yes                                                    | Yes                                                  |
| 14             | OBC Hostel                                 | G+1                     | Completed     | 2660                           | No                                                     | No                                                   |
| 15             | Semi-Permanent Structure SP-1, 3 & 4       | G                       | Completed     | 11700                          | Yes                                                    | No                                                   |
| 16             | Semi-Permanent Structure SP-2/ Auditorium  |                         |               |                                | Yes                                                    | Yes                                                  |
| 17             | Semi-Permanent Structure SP-2/ Library     |                         |               |                                | Yes                                                    | Yes                                                  |
| 18             | Hostel Girls No.- 1,2,3,4                  | G+2                     | Completed     | 23400                          | Yes                                                    | No                                                   |
| 19             | Hostel Boys (8A-1)/B-6                     | G+3                     | Completed     | 8723.05                        | Yes                                                    | Yes                                                  |
| 20             | Hostel Boys (8A-2)/B-5                     | G+3                     | Completed     | 8916.06                        | Yes                                                    | Yes                                                  |
| 21             | Hostel Boys (8A-6)/B-7                     | G+3                     | Completed     | 8655.87                        | Yes                                                    | Yes                                                  |
| 22             | Dining Block (9.2)                         | G                       | Completed     | 1685.77                        | Yes                                                    | Yes                                                  |

|    |                                       |     |              |                     |     |     |
|----|---------------------------------------|-----|--------------|---------------------|-----|-----|
| 23 | Dining Block (B-7)                    | G   | Completed    | 1211.62             | Yes | Yes |
| 24 | Health Centre                         | G+1 | Completed    | 340                 | No  | No  |
| 25 | Estate Building<br>(G+1)              | G+1 | Completed    | 3278.39             | Yes | No  |
| 26 | Staff Quarters Type-<br>C Block-12C-2 | G+2 | Completed    | 898.28              | Yes | No  |
| 27 | Staff Quarters Type-<br>C Block-12C-4 | G+2 | Completed    | 898.28              | Yes | No  |
| 28 | Staff Quarters Type-<br>D Block-12D-1 | G+3 | Completed    | 1942.92             | Yes | No  |
| 29 | Staff Quarters Type-<br>D Block-12D-2 | G+3 | Completed    | 1942.92             | Yes | No  |
| 30 | Staff Quarters Type-<br>III Block-I   | G+2 | Completed    | 1050                | Yes | No  |
| 31 | Staff Quarters Type-<br>III Block-II  | G+2 | Completed    | 1050                | Yes | No  |
| 32 | Staff Quarters Type-<br>III Block-III | G+2 | Completed    | 1050                | Yes | No  |
| 33 | Staff Quarters Type-<br>II            | G+3 | Completed    | 1193.28             | Yes | No  |
|    |                                       |     | <b>Total</b> | <b>₹1,42,619.38</b> |     |     |
|    |                                       |     |              | <b>Sq.mt.</b>       |     |     |

**Note:** Bidders need to simply quote rates for the items given in ‘Annexure – X’ in Part-B, through 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 or otherwise, as per the discretion of the Competent Authority of CU Rajasthan. For the works, if provided under this part, the agency will be paid for the works provided on an actual basis only.

viii. **SH- IX - Comprehensive Annual Repair & Maintenance of 2 nos. of 100 kWp Rooftop SPV On-Grid Power Plant at CURaj.**

1. Comprehensive Annual Repair & Maintenance of 2x100 kWp Rooftop SPV On Grid Power Plant installed in SP3 & SP4 buildings including solar panels, inverters, electrical panels, cabling and other accessories including manpower, labour, machinery, spare parts, consumables, tools & plants etc. complete in all respects, as per standard practice and directions of University.
2. This work includes general R&M on monthly basis, preventive R&M on quarterly basis, servicing and unlimited breakdown calls through qualified & experienced persons as per standard practice.
3. The agency/contractor shall be responsible for preparation & maintenance of all records, breakdown reports etc. and timely submission to the University as and when required.
4. All the works shall be carried out as per CPWD General Specifications for Electrical Works, Part-I (Internal)-2023, Part-II (External)- 2023 and should also comply with relevant provisions of the Indian Electricity Rules /Acts as applicable, amended up to date.
5. 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 university 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.
6. If any breakdown/damage is attributed on part of the contractor/agency, suitable recoveries shall be made as per decision of University.
7. The agency/contractor shall use good quality spare parts preferably of the same brand as available in the original system.
8. This work includes repair/replacement/updating of SPV modules, inverter, MMS, fasteners & ballasts, AC/DC cables, wiring, ACDB, DCDB, Earthing & LA, generation monitoring system etc. complete in all respects.
9. 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.
10. Breakdown Calls – The equipment should be attended within stipulated time as and when the fault is reported.
11. Old damaged/faulty spare parts replaced with new spare parts, shall be the property of the agency/contractor.
12. Comprehensive Annual Repair & Maintenance of 2 nos of 100 kWp Rooftop SPV On Grid Power Plant installed in SP3 & SP4 buildings shall be carried out as per prescribed guidelines/manuals of respective Original Equipment Manufacturer, standard practice and directions of University.
13. Any damage or loss caused to the equipment or their parts during repair work; due to negligence, mishandling 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 of the same or better make and specifications.

14. The reports of preventive maintenance, preventive maintenance register/file shall be submitted to the University on regular basis. Apart from the preventive maintenance visits, any breakdown calls in between emanating from the user will also be attended to without any additional charge.
15. It shall be the responsibility of the agency/contractor to maintain the 2 nos. of 100 kWp Rooftop SPV On Grid Power Plant in working condition and their general maintenance throughout the contract period and to hand over the same in working condition to the CURAJ after expiry of the contract.
16. The routine preventive maintenance of 2 nos. of 100 kWp Rooftop SPV On-Grid Power Plant shall be carried out preferably on Saturdays/Sundays/holidays to ensure minimum disturbance to the client department.
17. The agency/contractor shall liason and coordinate with the local authorities in order to get the clearance/safety certificate, wherever applicable. The government fee, if any for the purpose, shall be borne by the University.
18. 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.

ix. **SH – X - Comprehensive Annual Maintenance Contract for RO Water Purifiers / Plants.**

- (i) 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 University.
- (ii) It will be the responsibility of the agency to ensure the proper functioning of all RO Plant / Purifiers round the clock. Bidder needs to provide the daily TDS report of all the RO Plant / Purifiers.
- (iii) 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.
- (iv) 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:-
  - a) All kinds of Filters
  - b) Pre-filter candle
  - c) All type of Compressor/Motor/Pump/Capacitor/Pipes/Wire
  - d) Thermostat.
  - e) Relay
  - f) Carbon filter/ activated carbon
  - g) Worn out parts etc.
  - h) All kind of Membrane
  - i) All kind of TDS Controller
  - j) All kind of sensors, valves
  - k) Other Part - as required for the each unit
  - l) Anti-Scaling chemical and other such consumables for proper functioning of RO Plants.
  - m) All other parts of the RO which are necessary to be repaired or replaced.
- (v) The replacement of all consumables as described above such as cartridges, candles, post carbons, membranes etc. are mandatory, during the contract period as directed by the University to get the desired water quality.
- (vi) Each RO must be inspected by authorized service personnel and maintained at least once every week during the contract period and the University may direct to make extra visits to ensure good quality of water and the bidder/agency have to fulfill that without any extra charge and submit the report to the University.
- (vii) 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.
- (viii) 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.
- (ix) 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.

- (x) 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.
- (xi) 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. However, no machines will be shifted without the knowledge of the University.
- (xii) 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.
- (xiii) 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.
- (xiv) 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. Report with regard to this shall be submitted to the University.
- (xv) Bidder needs to submit the water testing report of Govt. approved laboratory/CURAJ Department laboratory on quarterly basis.
- (xvi) The Contractor shall submit a monthly report regarding the status, operation, and servicing of the RO systems to the University.
- (xvii) It will be the responsibility of the agency to ensure smooth functioning of all above by maintaining regular inspection at his own and to submit the inspection report to the University on regular basis.
- (xviii) The tenderer shall depute sufficient number of qualified and experienced staff as per the requirement of the University.
- (xix) All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of the Central University of Rajasthan.
- (xx) Detailed list of the RO Water Purification System at Central University Of Rajasthan are as follows:

| <b>S. No.</b> | <b>Description</b>                                                                                                 | <b>Quantity (In Nos.)</b> |
|---------------|--------------------------------------------------------------------------------------------------------------------|---------------------------|
| 1             | Reverse Osmosis Plant 300 LPH (RO-300 SS) of Make- Hi-Tech Sweet Water Technologies Pvt Ltd installed in year 2011 | 2.00                      |
| 2             | Reverse Osmosis Plant 300 LPH (RO-300 SS) of Make- Hi-Tech Sweet Water Technologies Pvt Ltd installed in year 2012 | 2.00                      |
| 3             | Reverse Osmosis Plant 300 LPH (RO-300 SS) of Make- Hi-Tech Sweet Water Technologies Pvt Ltd installed in year 2013 | 2.00                      |
| 4             | Reverse Osmosis Plant 300 LPH (RO-300 SS) of Make- Hi-Tech Sweet Water Technologies Pvt Ltd installed in year 2014 | 2.00                      |
| 5             | Reverse Osmosis Plant 50 LPH- Eureka Forbes , installed in year 2021                                               | 2.00                      |
| 6             | Reverse Osmosis Plant 25 LPH- Eureka Forbs , installed in year 2017-18                                             | 8.00                      |
| 7             | Reverse Osmosis Plant 15 LPH- Kent/Eureka Forbes, installed in year 2013-14                                        | 8.00                      |

|    |                                                                                                                                                                                                                                                                                                 |       |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 8  | Reverse Osmosis 12 LPH- Aqua Fresh installed in year 2019                                                                                                                                                                                                                                       | 1.00  |
| 9  | Reverse Osmosis 12 LPH- Eureka Forbes installed in year 2015                                                                                                                                                                                                                                    | 1.00  |
| 10 | Reverse Osmosis Plant 10 LPH                                                                                                                                                                                                                                                                    | 1.00  |
| 11 | Reverse Osmosis 250 LPH- Aquaguard installed in year 31/01/2023                                                                                                                                                                                                                                 | 1.00  |
| 12 | Supply and Installation (Replacement) of Reverse Osmosis Plant of 50 LPH Capacity - Make Eureka Forbes<br><br>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 |

**Note:** Bidders need to simply quote rates for the items given in ‘Annexure – XI’ in Part-B, through 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 or otherwise, as per the discretion of the Competent Authority of CU Rajasthan. For the works, if provided under this part, the agency will be paid for the works provided on an actual basis only.

x. **SH – XI - Comprehensive Operation and Maintenance of IT Works.**

List of items to be covered under CAMC:

| S.No. | Description of Item                                                                                                                                                                                                               | Qty. | Unit |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
|       | <b>Hardware Items</b>                                                                                                                                                                                                             |      |      |
| 1.    | Laptops                                                                                                                                                                                                                           | 159  | Nos. |
| 2.    | Desktop System                                                                                                                                                                                                                    | 840  | Nos. |
| 3.    | Server                                                                                                                                                                                                                            | 11   | Nos. |
| 4.    | Printers                                                                                                                                                                                                                          | 182  | Nos. |
| 5.    | LCD Projectors                                                                                                                                                                                                                    | 66   | Nos. |
|       | <b>CCTV System</b>                                                                                                                                                                                                                |      |      |
| 6.    | IP Camera                                                                                                                                                                                                                         | 140  | Nos. |
| 7.    | DVR Camera                                                                                                                                                                                                                        | 26   | Nos. |
| 8.    | Switch (24 port)                                                                                                                                                                                                                  | 3    | Nos. |
| 9.    | Switch (16 port)                                                                                                                                                                                                                  | 1    | Nos. |
| 10.   | Switch (8 port)                                                                                                                                                                                                                   | 24   | Nos. |
| 11.   | Switch (4 port)                                                                                                                                                                                                                   | 1    | Nos. |
| 12.   | 42" Screen                                                                                                                                                                                                                        | 2    | Nos. |
| 13.   | 32 Channel NVR                                                                                                                                                                                                                    | 8    | Nos. |
| 14.   | 16 Channel NVR                                                                                                                                                                                                                    | 1    | Nos. |
| 15.   | 8 Channel NVR                                                                                                                                                                                                                     | 4    | Nos. |
| 16.   | 4 Channel NVR                                                                                                                                                                                                                     | 1    | Nos. |
| 17.   | Surveillance Hard Disk 10 TB                                                                                                                                                                                                      | 15   | Nos. |
| 18.   | Surveillance Hard Disk 8 TB                                                                                                                                                                                                       | 1    | Nos. |
| 19.   | Surveillance Hard Disk 4 TB                                                                                                                                                                                                       | 3    | Nos. |
| 20.   | Surveillance Hard Disk 2 TB                                                                                                                                                                                                       | 2    | Nos. |
|       | <b>Biometric Access Control Systems</b>                                                                                                                                                                                           |      |      |
| 21.   | Face Biometric Machine                                                                                                                                                                                                            | 59   | Nos. |
|       | <b>Voice System</b>                                                                                                                                                                                                               |      |      |
| 22.   | IP-PBX Machine                                                                                                                                                                                                                    | 2    | Nos. |
| 23.   | IP Phone                                                                                                                                                                                                                          | 152  | Nos. |
| 24.   | IP Phone DSS KEY                                                                                                                                                                                                                  | 5    | Nos. |
|       | <b>Data Networking System</b>                                                                                                                                                                                                     |      |      |
| 25.   | Switch (48 Port)                                                                                                                                                                                                                  | 27   | Nos. |
| 26.   | Switch (24 Port)                                                                                                                                                                                                                  | 107  | Nos. |
| 27.   | Switch (16 Port)                                                                                                                                                                                                                  | 1    | Nos. |
| 28.   | Switch (8 Port)                                                                                                                                                                                                                   | 5    | Nos. |
| 29.   | Core Switch (48 Port)                                                                                                                                                                                                             | 4    | Nos. |
| 30.   | LAN points                                                                                                                                                                                                                        | 3096 | Nos. |
|       | <b>Audio Video Conferencing System</b>                                                                                                                                                                                            |      |      |
| 31.   | Group Video Conferencing device including TV/Interactive Panel, camera, speakerphone with USB plug-and-play connectivity in Board Room and VC Secretariat                                                                         | 2    | Nos. |
| 32.   | Audio-Visual Conference System including Digital Podium, Camera, Microphones, Speakers, TVs, Amplifiers, HDMI Switcher, Cables & Connectors and associated accessories installed in NAAC room and VC Secretariat conference room. | 2    | Nos. |
|       | <b>Smart Classrooms System including PA System</b>                                                                                                                                                                                |      |      |
| 33.   | Smart Classroom equipped with interactive screen 75/86/110 inch, audio systems, digital podium with mini PC, PTZ cameras and other related items                                                                                  | 12   | Nos. |
|       | <b>Heavy-Duty Multifunction Photocopier Machines</b>                                                                                                                                                                              |      |      |
| 34.   | Heavy-Duty Multifunction Photocopier Machines                                                                                                                                                                                     | 20   | Nos. |
|       | <b>Auditorium PA System with Visual devices</b>                                                                                                                                                                                   |      |      |
| 35.   | Audio Visual system Mixer (32/8/6 Channel), Speakers, Microphones, Amplifier, Auditorium Projectors, LED Units, Connectors and entire accessories                                                                                 | 1    | Nos. |

|     | Offline UPS's (600VA & 1KVA) excluding Batteries |     |      |
|-----|--------------------------------------------------|-----|------|
| 36. | 600 VA Offline UPS                               | 250 | Nos. |
| 37. | 1 KVA Offline UPS                                | 70  | Nos. |

**Note:** Central University of Rajasthan reserves the right to increase or decrease the quantity of contracted items at any time during the validity of the contract. Accordingly, the charges shall be increased or decreased on a pro-rata basis.

Scope of work shall be as defined hereunder:-

1. The Service Provider/Contractor have to provide services to set right the malfunctions of the Desktop Computers, Servers, Laptop, Printers , LCD Projectors and Photocopier machines etc. installed at various places in the campus of the Central University of Rajasthan.
2. Operation & Maintenance work shall be done as directed by the concerned official of CURAJ.
3. The maintenance of hardware and software installed. The software maintenance includes operationalizing, loading/reformatting of software like Windows, Linux, Microsoft Office, Browsers like Internet Explorer, Chrome, Mozilla, Antivirus software, Data retrieval and installation/removal, configuration of servers with software/tools as per the university requirements, configuration migration & hosting of web applications/data of network switches and any other software purchased by CURAJ from time to time. It also includes removal of virus and reinstallation of software, if corrupted. Support for users and troubleshooting of commercial software (Licensed) packages mentioned above. Scope of work of CAMC also includes.
4. Maintenance that includes the replacement of malfunctioning spares/ parts for proper functioning of all systems and subsystems by the Service Provider/Contractor. Parts will be replaced or repaired within 48 Hours and if any part gives repeated problems more than 3 times in period of one-month, the Service Provider/Contractor shall replace it immediately with a new original part.
5. Maintenance includes replacement of each and every malfunctioning part of computers, laptop, printers, Server, LCD Projector including Lens, photocopier and related items like Hard Disk, Optical Drive, Mother Board, TFT Monitor, Lens of the LCD Projector/Broken Lens of the LCD Projector except Physical accidental damage, RAM, Keyboard, Mouse, SMPS, power cables, interface cable, Printer Heads, Fuser assembly, roller drums, data cables, scanning unit, switch, power supply, display card, Wiper Blade, Magnetic Rod, CMOS batteries for computer and biometric machine etc. and all other parts except consumables.
6. Maintenance includes replacement of each and every malfunctioning parts of the equipment's to be replaced by the Service Provider/Contractor, must be of the same make/model. In case it is not possible, the same must be of better or equivalent quality. In the service report, the details regarding the part number and serial number (if any) must be brought out, to meet requirement.
7. The parts for which services/repair could not be provided shall be replaced by Service Provider/Contractor. The parts that are to be replaced should be new parts of reputed brand or equivalent in performance & capacity. In case, if any system has been crashed, data is to be retrieved by the Service Provider/Contractor without any additional cost to CURAJ.
8. It is the responsibility of the Service Provider/Contractor to keep the minimum 10% inventory as per list of items attached to be covered under this tender.

9. Log book for complaints shall also be arranged by the Service Provider/Contractor and keep the daily records of complaints attended by support engineers from the date of start of work & all parameters shall be recorded systematically.
10. The engineer(s) will work under the instructions of the coordinator or any person authorized by the CURAJ and shall submit complaint sheets to him for each complaint attended by them. The complaint sheet would clearly define the nature of complaint, location of office and time taken for rectification of complain. The engineer(s) are also required to get the complaint sheets signed by the respective end users.
11. In the case of computer hardware and its peripherals, the contract shall be comprehensive in nature and shall include preventive maintenance, breakdown maintenance, replacement/repair of defective components, and supply of all spare parts, accessories, and services required for proper functioning of the equipment during the contract period. However, the following items shall be treated as consumables/exclusions and shall not be covered under the Comprehensive Annual Maintenance Contract (CAMC):
  - Printer ribbons
  - Toner cartridges for LaserJet printers
  - Ink cartridges/ink bottles for inkjet printers
  - Laptop batteries
  - Laptop power adapters/chargers
  - UPS Batteries (600 VA, 1 KVA)
  - External batteries and battery banks
  - CDs, DVDs, Blu-ray discs, and storage media
  - Pen drives, memory cards.
  - Software licenses, antivirus subscriptions, and application renewals
  - Replacement of accessories lost, stolen, accidental damage.
12. All other spare parts/components including motherboard, RAM, SMPS, hard disk/SSD, cooling fan, NIC card, display-related components, printer formatter board, networking accessories, switches, ports, racks, CCTV accessories, etc. or similar category as decided by CURAJ, and related ICT hardware parts required for operational maintenance shall be covered under the CAMC without any additional cost to the CURAJ.
13. This Comprehensive Annual Maintenance Contract (CAMC) shall comprehensively cover repair, rectification, restoration, replacement, and maintenance of all ICT equipment, networking infrastructure, peripherals, accessories, passive components, and connected systems including damages/failures arising due to environmental, operational, and biological causes including but not limited to rat menace and similar conditions.
14. The scope of the contract shall specifically include damages caused due to Non-maintenance of devices resulting in:
  - i) Rat menace, squirrel damage, lizard/insect intrusion, bird interference, termite attack, cockroaches, or similar type of damages etc.
  - ii) Cable cutting, cable chewing, insulation damage, and physical damage to OFC/UTP/LAN/telephone/power/video cables, or similar type of damages etc.
  - iii) Damage to networking accessories including RJ-45 connectors, I/O boxes, patch panels, patch cords, face plates, media converters, adapters, connectors, and cable terminations, or similar type of damages etc.
  - iv) Dust accumulation, carbon deposition, moisture, humidity, corrosion, rusting, and environmental deterioration , or similar type of damages etc.
  - v) Failure due to overheating, improper ventilation, fan malfunction, and choking of ventilation

systems or similar type of damages etc.

vi) Loose connections, sparking, short-circuiting, and electrical disturbances affecting ICT equipment.

vii) Damage to motherboard, SMPS, RAM, storage devices, ports, display units, switches, CCTV equipment, IP telephony systems, and server/network components due to the above reasons.

viii) Damage to conduits, trunking, PVC casing/capping, cable management systems, and protective accessories related to ICT installations.

ix) Failure of equipment due to normal wear and tear arising during continuous operational use.

15. The contractor shall carry out immediate rectification/replacement of all affected components including cables, connectors, accessories, electronic parts, network devices, and peripheral components without any additional financial implication to the University.
16. The contractor shall maintain an adequate inventory of minimum 3% to 5% (where items are very less i.e. below 10 Nos, at least 1 items to be kept in stand by or as decided by the CURAJ) for assets and spare parts, accessories of assets in each category of equipment/items covered under the CAMC, including all essential spare parts, accessories, and consumables required for immediate restoration of services in the event of failure, damage, or breakdown. The contractor shall also ensure availability of standby/temporary replacement systems wherever necessary to maintain uninterrupted functioning and continuity of University ICT services during repair or replacement periods.
17. The contractor shall also undertake preventive maintenance and protection activities including but not limited to:
  - Daily checking of hardware items status to ensure proper functioning and early fault detection.
  - Cleaning of external surfaces using a dry microfiber cloth; ensuring ventilation openings are unobstructed; light dusting of rack fronts and nearby floor areas.
  - In smart classrooms and VC rooms in use, cleaning of touchscreens, podium tops, microphones, and remote controls at the end of each day using screen-safe cloths.
  - Light dust removal using air blowing or vacuuming around CPU vents and printer exteriors; cleaning of projector outer body.
  - Cleaning of CCTV camera housings and brackets, including removal of cobwebs and insects (especially for outdoor cameras).
  - Cleaning of biometric device surfaces and IP phone handsets.
  - Wiping and cleaning of interactive screens, podiums, speakers, wall panels, and cable raceways.
  - Cleaning of front and rear sides of racks and cable trays to prevent dust accumulation.
  - Periodic power-down and internal cleaning (permission to be taken from concerned section/department) of desktops, laptops, and servers, including removal of dust from fans, heat sinks, power supply units, vents, and grills.
  - Printer maintenance including opening covers, removal of paper dust, and cleaning of rollers and internal components.
  - Projector maintenance including cleaning or replacement of filters, cleaning of lens and outer body.

- Maintenance of switches, servers, NVRs, and IP-PBX systems including air cleaning around vents, racks, shelves, and rack doors.
- CCTV maintenance including careful cleaning of lens/domes and housings (indoor and outdoor), followed by proper resealing of outdoor units.
- Cleaning of biometric devices and IP phones including sensors, keypads, and handsets using approved cleaning materials.
- Maintenance of smart classroom equipment including cleaning of camera lenses, displays, podium PCs, control panels, visible cabling, as well as dust removal behind displays and speaker grills.
- Proper cable dressing and structured cabling management.
- Protection of cables through conduits, casing/capping, flexible pipes, raceways, and protective sleeves.
- Sealing of entry/exit points of racks, server rooms, false flooring, and cable trenches.
- Periodic cleaning of racks, ICT rooms, network nodes, switches, servers, and equipment.
- Pest control and preventive maintenance of each item in routine manner.
- Maintenance of proper earthing, ventilation, cooling, and environmental conditions.
- Inspection and tightening of electrical/network connections on periodic basis.
- Preventive Maintenance of Network Racks SOPs:
  - Take photographs of the rack before starting the work.
  - Remove unused and unpatched hanging patch cords from the rack.
  - Tag all cables at both ends, including patch panel end, switch end, and uplinks.
  - Remove cables from the switch and patch panel one at a time.
  - Shut down the switch/network element one by one.
  - Remove the power supply from the switch.
  - Unmount the switch, switches, and patch panels from the rack.
  - Remove rust from the ports of the switch and patch panels using WD-40 or equivalent.
  - Clean the switch thoroughly using a duster, cloth, and blower.
  - Clean the rack thoroughly using a duster, cloth, and blower.
  - Mount the switch back onto the rack.
  - Patch the patch cords to the tagged ports of the patch panel and switch, routing them properly through the cable manager using Velcro and other required accessories.
  - Take photographs of the completed work.
- Cleaning and dusting of network racks, patch panels, and associated equipment.
- Proper dressing, arranging, and tagging of optical fibre and copper cables.
- Repositioning or reinstallation of switches, patch panels, cable managers, fan trays, and related components, if required.
- Ensuring easy identification, accessibility, and future replacement of cables and components.
- Permanent labelling of IT points, patch panels, and network cables.
- Re-termination of copper and fibre cables at patch panel/LIU if links are faulty.
- Fault finding and rectification of failed optical or copper links.
- Fixing, splicing, resplicing, repairing, and tagging of network cables, fibre patch cords, pigtails, patch panels, LIUs, connectors, and UTP patch cords.

- Managing structured cabling inside network racks.
  - Providing horizontal and vertical cable management.
  - Ensuring proper cable dressing and neat installation as per standards.
  - Compliance with relevant standards such as TIA/EIA, BICSI, and local building codes.
  - Conducting site survey for assessment of existing network infrastructure, if required.
  - All necessary passive materials such as Velcro straps, cable sleeves, cable organizers, cable managers, micro-fibre cable ties, cable labels and associated tools & accessories shall be supplied by the bidder and will not be provided by the university.
  - The bidder shall ensure that supplied materials meet the required quality standards; the university reserves the right to reject any material not meeting standards and its decision shall be final.
  - The preventive maintenance activities listed above are indicative and inclusive, but not limited to the items mentioned. Any additional PM work, whether specified or not, shall be carried out strictly in accordance with the instructions of CURAJ.
18. Any failure of ICT services due to non-attendance, negligence, non-availability of spare parts, poor workmanship, or inadequate preventive measures by the contractor shall attract penalty as per the contract terms and conditions.
  19. The contractor shall not deny responsibility for repair/replacement of equipment/components damaged due to rat menace, dust, moisture, corrosion, or similar operational/environmental conditions during the validity period of the CAMC.
  20. The Service Provider/Contractor shall deploy adequate numbers of full-time, qualified, experienced, and professionally competent resident engineer(s)/technical support staff exclusively for the University under this contract for ensuring uninterrupted operation and maintenance of all ICT infrastructure and services covered in the tender or not limited to this tender. Any ICT related work may be assigned to the engineer/technical support staff as per the university requirement. Contractor shall not deny for deputation of manpower for completion of assigned work in the interest of university.
  21. The deployed manpower shall possess minimum qualification of Diploma/Degree./equivalent in relevant disciplines such as Computer Science, Information Technology, Networking, or similar fields along with adequate experience in handling enterprise-level ICT infrastructure including desktops, laptops, servers, networking systems, storage, CCTV, IP telephony, audio visual, smart classrooms, projectors, biometric systems, printers, and related peripherals.
  22. The bidder shall submit the following documents of each deployed manpower before deployment at the university:
    - Educational Qualification Certificates
    - Technical Certifications, if any
    - Experience Certificates
    - Valid Identity Proof (Aadhaar Card/Voter ID/PAN Card etc.)
    - Any other document required by Central University of Rajasthan.
  23. Deployment of manpower without prior approval of the University shall not be permitted. The University reserves the right to reject any manpower found unsuitable, under qualified, lacking required experience, or involved in misconduct, and the bidder shall replace such manpower immediately without any additional cost to the University.
  24. The bidder shall ensure deployment of sufficient dedicated manpower as per the following indicative categories or as directed by the University with minimum indicative deployment of manpower with minimum qualification and experience as detailed here under:

| <b>S. No.</b> | <b>Manpower Category with Number of Staff Required</b>   | <b>Minimum Qualification Required</b>                                                                                                                     | <b>Experience Requirement</b>                                                                                                                                    | <b>Key Skill Set / Certifications Preferred</b>                                                                           |
|---------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| i)            | Network Engineer (01 Nos)                                | B.E./B.Tech. (IT/CS/ECE)/MSC IT/CS, MCA, BCA, Polytechnic, Diploma in Computer Science, Information Technology, Electronics & Communication or equivalent | Minimum 3 years experience in LAN/WAN, Wi-Fi, Network Security, Network Switch configuration, Firewall, IP Telephone and Structured Cabling etc.                 | CCNA certification preferred, knowledge of routing, switching, firewall, VLAN, fiber network management                   |
| ii)           | Server Engineer (01 Nos)                                 | B.E./B.Tech. (IT/CS/ECE)/MSC IT/CS, MCA, BCA, Polytechnic, Diploma in Computer Science, Information Technology, Electronics & Communication or equivalent | Minimum 3 years experience in Server Administration, configuration, migration & hosting of web applications/data, Virtualization and Data Backup Management etc. | Knowledge of Windows/Linux Server, VMware/Hyper-V, Storage Management, AD/DNS/DHCP, server security etc.                  |
| iii)          | Hardware/Desktop Support Engineer (01 Nos)               | Diploma/Bachelor Degree in Computer Hardware, IT, Computer Science or equivalent                                                                          | Minimum 2 years experience in Desktop/Laptop/Printer /Photocopier troubleshooting and maintenance etc.                                                           | Knowledge of OS installation, antivirus, hardware diagnostics, printers and photocopiers machines, networking basics etc. |
| iv)           | CCTV/Surveillance System Technician (01 Nos)             | Diploma/ITI in Electronics/Electrical/Computer Hardware or equivalent                                                                                     | Minimum 2 years experience in CCTV installation, configuration and maintenance, Desktop support, Biometric System etc.                                           | Knowledge of IP cameras, NVR/DVR systems, surveillance networking and troubleshooting etc.                                |
| v)            | Smart Classroom/Audio Visual Support Technician (02 Nos) | Diploma/ITI/Bachelor Degree in Electronics, Audio Visual Systems, IT or equivalent                                                                        | Minimum 2 years experience in Smart Classroom, Projector, PA System and AV equipment handling etc.                                                               | Knowledge of interactive panels, video conferencing systems, microphones, amplifiers and digital classroom solutions etc. |

25. The deployed manpower shall work under the overall coordination with the Central University of Rajasthan (CURAJ). The scope of work of the deployed personnel shall not be limited only to the equipment/items covered under the CAMC, and the ICT Cell may assign any work related to the University ICT infrastructure as per operational requirements.

26. All associated expenses shall be borne by the bidder. In the event of the resident engineer's leave, absence, weekly off, or any other unavailability, the bidder shall ensure immediate deployment of a suitable replacement from the above-mentioned engineers without any disruption to services.
27. The deputed manpower shall report to ICT CELL on daily basis in morning and evening with marking of daily attendance in Biometric machine is mandatory. The Service Provider/Contractor shall not change the engineer(s) without clearance from the University. Further that the Service Provider/Contractor shall provide a substitute for a deployed engineer.
28. The assigned work may include new installation, maintenance, troubleshooting, configuration, administration, preventive maintenance, new establishment of LAN, CCTV, Cabling, Conduit laying, Fiber laying, Fiber splicing, Punching etc. and smooth functioning of Hardware, Software, Networking, Servers, configuration, migration & hosting of web applications/data, Storage, CCTV Surveillance Systems, Public Address (PA) Systems, IP Telephony, Smart Classrooms, Audio Visual Systems, Biometric Systems, Printers, and other ICT-related services/equipment configuration and maintenance deployed in the University.
29. Execution of new Networking work/ CCTV and other similar ICT-related work in laboratories, offices, and departments, other locations of university shall be within the scope of the bidder. However, the required materials shall be provided by the University, and the necessary manpower services shall be covered under CAMC without any additional cost to the University.
30. The scope of work shall include provision of ICT services for overall backhauling and network connectivity across the campus. This shall cover activities such as UTP/Fiber laying and splicing, required digging/trenching, fault rectification, installation of electrical sockets etc., and all other necessary work to ensure functional connectivity throughout the campus. All such activities shall be carried out by the bidder without any additional cost to the University.
31. The bidder shall provide the OEM specialized services as and when required for the university to make the ICT hardware/software or any service without any additional cost to CURAJ.
32. The CAMC of ICT support services are not limited to only items covered under CAMC however, if manpower services required for the any ICT related work in the university must provide and deputed the manpower by the bidder without any additional cost to CURAJ. The ICT Cell reserve rights to depute any manpower for any ICT related work in the university, failure to non-compliance the penalty will be imposed as non-availability of the manpower.
33. The manpower deployed by the contractor shall be required to work in normal shifts, rotational shifts, off-hours, holidays, weekends, recruitment work, emergency situations, or during University events/functions, as decided by CURAJ from time to time. One weekly off/leave may be allowed as per applicable labor laws; however, the same may be adjusted on working weekdays depending upon operational requirements, and the concerned manpower may be required to attend duties on weekends and holidays whenever necessary.
34. The deployed engineer(s)/staff shall report physically at the University campus on all working days and shall remain available beyond office hours, during holidays, weekends, examinations, admissions, conferences, emergency situations, VIP visits, and special events as and when required by the University without any extra payment.
35. The contractor shall maintain minimum manpower strength at all times. Absence of any deployed staff due to leave, resignation, sickness, or any other reason shall not be accepted as justification for disruption of services. Suitable substitute manpower of equivalent qualification and experience shall be deployed immediately.

36. The bidder shall ensure that manpower should be available in night/off hours on call basis in emergency cases as and when requirement of the university for network & server support, event support, any ICT support, failure to which penalty will be imposed as applicable.
37. Once the bidder has taken over the inventory after verification, no item shall be rejected thereafter on the grounds of non-availability of parts or any other reason. In such cases, the bidder shall ensure provision of equivalent or higher configuration components/items to maintain functionality.
38. The deployed engineer(s) shall work with coordination of the University. The bidder should ensure manpower duties, modify deployment locations, and review performance in the interest of uninterrupted ICT services, if services are found not satisfactory and reported by the university.
39. The contractor shall ensure the following mandatory service obligations:
- i) Preventive maintenance of all equipment on daily/weekly/monthly scheduled basis as per the industry standard of the maintenance terms of ICT equipment's or as per the direction of the university.
  - ii) Breakdown call attendance within maximum 30 minutes for critical services and 2 hours for normal complaints.
  - iii) Rectification/resolution of faults within 30 min. timelines as per contract terms.
  - iv) Availability of standby equipment wherever required.
  - v) Maintenance of minimum uptime of 99.995% for critical ICT infrastructure/services.
  - vi) Immediate escalation and reporting mechanism for major failures.
  - vii) Availability of required spare parts, tools, testing instruments, software utilities, ladders, safety equipment, and accessories at site.
40. The University shall have absolute authority to demand replacement of any deployed manpower without assigning any reason, and the contractor shall comply immediately.
41. The CAMC period shall commence only after completion of verification of all items covered under CAMC by the bidder, duly signed and accepted by the bidder and countersigned by the ICT staff. The CAMC shall be deemed to start from the date of completion of such verification and deployment of the minimum required manpower.
42. Invoices shall be accepted only on the basis of the on the basis of verified documents. Incomplete or pending verification of items shall not be considered for billing for that month. The time taken by the bidder to complete the verification process shall not be counted towards the CAMC period.
43. In case the verification process starts during a month but is completed later (including in the last week of the month), billing for that month shall be accepted on a pro-rata basis, calculated for the actual number of days after completion of verification.
44. In case of deviation in CAMC services, non-deployment, shortage of manpower, absenteeism, delayed response, poor service quality, negligence, or failure to perform duties satisfactorily, penalty shall be imposed by the University as given in penalty clause.
45. The bidder shall mandatorily adopt a proactive maintenance approach for all items covered under the CAMC. The deployed manpower shall regularly inspect, monitor, troubleshoot, and carry out preventive maintenance of all hardware, software, networking, CCTV, server, storage, printer, IP phone, smart classroom, biometric, and other ICT infrastructure covered under the contract without waiting for complaints or breakdown calls from users or the ICT Cell. The bidder shall ensure timely repair/replacement/resolution of faults and potential

failures before disruption of services. Failure to take proactive action, negligence in preventive maintenance, or detection of unresolved faults/issues during inspection by the University authorities or upon complaints/concerns raised by users shall attract a penalty of 5,000/- per instance or as decided by the university. Repeated negligence or failure in proactive maintenance affecting the functioning of ICT services may further attract additional penalties, deduction from monthly bills, or termination of contract as decided by Central University of Rajasthan.

46. It is sole responsibility of bidder that monitoring and health check-up of all items, systems covered under CAMC should be checked daily basis without fail.
47. Downtime shall be calculated from the time of complaint registration through email/helpdesk/telephone till complete restoration of service or as decided by Central University of Rajasthan.
48. If standby equipment is not provided during repair period wherever applicable, penalty shall continue till restoration.
49. In case of repeated failure (more than 3 times in a month for same equipment), the vendor shall replace the faulty equipment/component at no additional cost.
50. If any critical service remains non-functional for more than 48 hours, the University reserves the right to get the work executed through another agency at the risk and cost of the vendor.
51. The decision of the CURAJ authority regarding classification of fault severity and penalty shall be final and binding on the vendor.
52. The contractor shall not withdraw manpower, discontinue services, or abandon work during the contract period under any circumstances. Failure to maintain services continuously shall be treated as breach of contract and may result in blacklisting, termination of contract, forfeiture of security deposit, blacklisting of the company, and other legal actions as deemed fit by the University.
53. The Service Provider/Contractor would carry out preventive maintenance of each mentioned machine daily/monthly/quarterly, in order to forestall any major failure of the same which includes installation of updates of antivirus packages. Service Provider/Contractor should also ensure proper cleaning of machines on quarterly basis. Failure to do so shall attract penalty at the rate mentioned at penalty clause.
54. The equipment will be repaired inhouse. In rare cases when it is very essential to take out the equipment for carrying repair outside the CURAJ, it is mandatory to have a valid pass for such equipment and making proper entries and report signed by ICT Cell of the University and at security office/gate.
55. Standby arrangement to be made immediately in case the equipment is to be taken to workshop for repairs or when item is not usable. In case standby is not provided, and the item is not usable beyond the 24 hours, alternate arrangements at Service Provider/Contractor own cost should be done till the defective equipment's performs.
  1. If the equipment/service remains non-functional beyond 24 hours and standby arrangement is not provided, penalty as per contract terms.
  2. Penalty shall be calculated on daily/weekly/monthly basis or part thereof.
  3. Repeated failure/non-compliance may lead to termination of contract, forfeiture of Performance Security Deposit/Bank Guarantee, and blacklisting of the contractor.
  4. Any penalty not mentioned in terms shall be decided by CURAJ.

56. Loss of any part in the product on account of negligence attributable to the Service Provider/Contractor at his own discretion may reinstate or replace the malfunctioning / non-functioning part or whole of the product with a working part or whole of the product of a matching or higher configuration. However, in the case of hard disc, Service Provider/Contractor should provide a new hard disk of matching or higher configuration.
57. If Service Provider/Contractor provides standby system for any part which is out of order, it will be the responsibility of the Service Provider/Contractor that before expiring the contract agreement it should repair/replaced the defective system and only then he could take its standby system back otherwise the University may deduct/recover from the security and payable amount equal to the cost of the system.
58. The bidder shall be fully responsible for any loss of data, items, or services occurring during the execution of work, including any damage caused by the bidder's service engineer due to negligence or improper handling. In such cases, the bidder shall be liable for immediate replacement of the damaged items and recovery/restoration of data or services at its own cost, to the satisfaction of the University.
59. BREAKDOWN:-
- a) In case of any major 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.
  - b) For major works, the time is a major parameter and the breakdown shall be completed within 30 min. 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.
  - c) 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.
60. In abnormal cases due to delay in repairs of equipment under CAMC, the loss arisen to the university on this account will be at the sole discretion of the competent authority which is fully recoverable/ repairable at the sole cost of Service Provider/Contractor .
61. The items not covered under CAMC due to any reason or accidental physical damage, university may request for the repair of the items, bidder should provide the quotation for the repair/replacement of items as per prevailing market rates.
62. The Service Provider/Contractor shall be required to hand over all the equipment's in working condition at the time of termination of the Contract, other-wise the equipment, found faulty, missing shall be rectified from any external agencies and whole replacement/repair cost will be borne by the Service Provider/Contractor only and recovery may be done from PBG or bank guarantee or company may be black listed..
63. The bidder shall provide all types of minor IT, electrical, electronic, networking, and similar spare parts/accessories required on a day-to-day basis for ensuring smooth, continuous, and uninterrupted functioning of ICT services. The cost of such routine consumables, connectors, adapters, cables, switches, plugs, peripherals, and other miscellaneous items shall be deemed to be included in the CAMC/service charges, and no additional payment shall be admissible on this account. All consumables petty materials are in the scope of the tenderer and nothing extra shall be payable on this account.
64. Comprehensive AMC Work of Offline UPS(s) of different ratings installed in various buildings of CURaj, including labour, machinery, spare parts, consumables, tools & plants etc. complete in all respects.

Note: This work includes general R&M on monthly basis, preventive R&M and servicing on quarterly basis and unlimited breakdown calls through qualified & experienced technicians/staff

65. The bidder shall supply genuine/OEM compatible spare parts and assemblies for heavy-duty multifunction photocopier machines of various makes and models including Canon, Ricoh, Konica Minolta, Kyocera, Sharp, Xerox, HP, Toshiba, etc. The quoted rates shall include installation, testing, replacement, transportation, and warranty wherever applicable.

**Note:** Bidders need to simply quote rates for the items given in ‘Annexure – IX’ in Part-B, through 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 or otherwise, as per the discretion of the Competent Authority of CU Rajasthan. For the works, if provided under this part, the agency will be paid for the works provided on an actual basis only.

| Technical Specifications of Major Networking Items |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Item                                               | Technical Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Network Gigabit Ethernet Switch L-2</b>         | Switch with at least 24/48 X 10/100/1000 BASE-T POE and 4 x 10G SFP+ Ports. 6 kV surge protection on all Ethernet ports. Switch MAC table should be at least 32K or higher. Switching capacity should be 176 Gbps or higher or non-blocking architecture. Switch packet forwarding rate should be 130.95 Mpps or higher or non-blocking architecture. Packet Buffer Memory - 16 Mb.                                                                                                                                                                                              |
| <b>Network Gigabit Ethernet Switch L-3</b>         | Minimum 24 or 48 × 10/100/1000 Mbps RJ-45 Gigabit ports. Minimum 128 Gbps (24-port) or 176–216 Gbps (48-port) or higher. The switch must support full or advanced L3 functionality: Static Routing (IPv4/IPv6), Dynamic Routing: RIP v1/v2, OSPF v2/v3, Inter-VLAN Routing (SVI-based routing), Policy-based, routing (optional but preferred), DHCP Server / Relay, VRRP / HSRP equivalent for redundancy. Security Features, 802.1X Network Access Control, ACL (Layer 2 to Layer 4 filtering), DHCP Snooping, IP Source Guard, ARP Inspection, Secure management via SSH, SSL |
| <b>Network Gigabit Ethernet PoE Switch L-2</b>     | Switch with at least 24/48 X 10/100/1000 BASE-T POE and 4 x 10G SFP+ Ports. PoE/PoE+ support , 6 kV surge protection on all Ethernet ports. Switch MAC table should be at least 32K or higher. Switching capacity should be 176 Gbps or higher or non-blocking architecture. Switch packet forwarding rate should be 130.95 Mpps or higher or non-blocking architecture. Packet Buffer Memory - 16 Mb.                                                                                                                                                                           |

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Network Ethernet PoE Switch L-3</b>   | <p>Minimum 24 or 48 × 10/100/1000 Mbps RJ-45 Gigabit ports. Minimum 128 Gbps (24-port) or 176–216 Gbps (48-port) or higher. PoE/PoE+ support, The switch must support full or advanced L3 functionality: Static Routing (IPv4/IPv6), Dynamic Routing: RIP v1/v2, OSPF v2/v3, Inter-VLAN Routing (SVI-based routing), Policy-based, routing (optional but preferred), DHCP Server / Relay, VRRP / HSRP equivalent for redundancy. Security Features, 802.1X Network Access Control, ACL (Layer 2 to Layer 4 filtering), DHCP Snooping, IP Source Guard, ARP Inspection, Secure management via SSH, SSL</p>                                                                                                 |
| <b>Unmanaged Network Switch /24/16/8</b> | <p>16/24/8 × 10/100 Mbps OR 10/100/1000 Gigabit Mbps RJ-45 ports, Optional 2 uplink ports (combo or dedicated), Switching Capacity - ≥ 1.6 Gbps (Fast Ethernet) / ≥ 16 Gbps (Gigabit), ≥ 3.2 Gbps / ≥ 32 Gbps, ≥ 4.8 Gbps / ≥ 48–52 Gbps. MAC Address Table - ≥ 1K–4K entries, ≥ 4K–8K entries, ≥ 8K–16K entries</p>                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Industrial/PoE Switches</b>           | <p>Industrial grade Managed Ethernet Switch with PoE/PoE+/PoE++ support,<br/>Port Configuration – PoE support per port: IEEE 802.3af/at (15.4W / 30W) or higher<br/>PoE Standards Support - IEEE 802.3af (15.4W per port) or higher<br/>Switching Capacity - Switching capacity: ≥ 8 Gbps (8-port) / ≥ 48–176 Gbps (24-port)</p>                                                                                                                                                                                                                                                                                                                                                                          |
| <b>IP PBX/IP Telephony</b>               | <p>IP-based Unified Communication (UC) / IP PBX system, Supports VoIP, SIP trunking, and hybrid (IP + analog) telephony 2. System Architecture : Appliance-based or software-based IP PBX<br/>Support for: SIP (Session Initiation Protocol), H.323 (optional legacy support), Cloud / on-premise deployment, Multi-site connectivity (campus interconnection)<br/>IP PBX Core Features: Extension management (IP phones /softphones), Auto Attendant (IVR), Call Routing (time-based / DID / hunt groups), Call forwarding, call transfer, call parking, Call hold, call waiting, call pickup, Conference bridge (audio/video optional), Voicemail with email integration, Call detail records (CDR)</p> |
| <b>RJ45 Connector</b>                    | <p>Connector Type - 8P8C, Wiring Standard - T568A / T568B, Typical Use-Ethernet LAN, Supported Cable - Cat5e, Cat6, Cat6A</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Network Rack 9U/12U/15U</b>           | <p>Rack Width 19 inch, Rack Height Measured in U (1U = 1.75 inch), Common Sizes-6U, 12U, 24U, 42U</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Fiber Optic Cable 6 core/ 12 core</b> | <p>Outdoor / indoor-outdoor Armoured Single Mode Fiber Optic Cable, 12/6 × Single Mode optical fibers Optical Performance<br/>Attenuation: ≤ 0.35 dB/km @ 1310 nm, ≤ 0.22 dB/km @ 1550 nm, Chromatic dispersion: as per ITU-T G.652D standard, Zero water peak (for G.652D fiber preferred)<br/>Environmental Requirements : Operating temperature: -20°C to +70°C, Storage temperature: -40°C to +70°C, Moisture, termite, rodent resistant Suitable for underground duct, direct burial, and aerial installation (as specified) Crush resistance: ≥ 2000 N/100 mm (typical armoured cable)</p>                                                                                                          |

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UTP Patch cored</b>                | Category 6 patch cords with four pair twisted cable terminated with RJ45 modular plugs at both the ends. Patch Cord should have TIA/EIA 568C.2 standard. Category 6 patch cord length requires – 1/2/3 meter.                                                                                                                                                                                        |
| <b>Fibber Patch Cord LC-LC Duplex</b> | Single mode G652D, Duplex Type, Cable yellow Color with PVC outer jacket. Insertion Loss <0.3 db , Return Loss >= 50dB for UPC. Repeatability : 0.2dB 1000 times mating cycles                                                                                                                                                                                                                       |
| <b>Patch Pannal</b>                   | 12/24/48-port rack-mounted cable management panel. Category 6 24 port Patch Panel should be 24 Port 1U Size loaded with 24 port RJ-45 IO. Patch panel suitable for Category 6 keystone. RJ-45 jack housing should be PBT + Glass fiber UL94V-O and Contact brackets should be PBT + Glass fiber UL94V-O.                                                                                             |
| <b>Face Plate with Keystone Jack</b>  | Face Plate should have shutter to protect from dust. Screw should be supplied with face plate. Category 6 keystone jacks are RJ45, 8 position 8 contact socket. Category 6 keystone jacks are suitable for 22-26 AWG stranded and solid wire. The Category 6 keystone jacks shall be backward compatible with Category 5e, 5 and 3 cords and cables.                                                 |
| <b>Cable Manager</b>                  | Cable Manager Rack Spaces 1U should be Rugged construction. Should Support Inward inclined fingers enabling comfortable access to network cables for easier add, moves and changes                                                                                                                                                                                                                   |
| <b>Wall Mount 12U/15U Rack</b>        | Wall Mount 12U - 550 W x 600 D. Adjustable 19” equipment mounting verticals provide the better mounting flexibility maximizing the usable mounting space.<br>Wall Mount 15U - 550 W x 600 D. Adjustable 19” equipment mounting verticals provide the better mounting flexibility maximizing the usable mounting space.                                                                               |
| <b>UTP Cable CAT6/CAT6A</b>           | Should support 1000BASE-T (1 Gigabit Ethernet) standard. Category 6 should operate on bandwidth up to 250MHz as per standard. Supply of Cat 6, 23 AWG Bare Copper Solid Conductor UTP Unshielded LSZH, in accordance to ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E, Flame Rating IEC 60332-1, Halogen Acid IEC 60754 -1, Smoke Density IEC 60134-2, 250 Mhz Bandwidth                                |
| <b>Fibber Pigtail LC Type</b>         | Provide a field installable Single mode LC pigtails to terminate fiber optic cables from cable-to-cable, cable-to-equipment and equipment-to-equipment. Utilize a UPC polishing on the tip to provide high yield during installation. Meet TIA/EIA 568.C.3 standards for repeatability. Insertion Loss (Max) <0.3 db Max, Return Loss >= 50 db for UPC. Repeatability ≤ 0.2dB 200 times Mating Cycle |
| <b>LIU 6core/12 core</b>              | Rack-mountable Fiber LIU (Light Interface Unit) / Fiber Optic Termination Panel, Termination of 6-core / 12-core / 24-core / 48-core fiber cables Distribution of fiber links in campus backbone networks, Capacity Options ; 6 Core / 12 Core LIU: Minimum capacity: 6F / , 12F splicing support, 1–2 splice trays (expandable), Suitable for small building connectivity                           |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SFP/SFP+</b> | <p>Hot-swappable Small Form-factor Pluggable (SFP) / SFP+ optical transceiver modules, Modules must comply with: IEEE 802.3z (Gigabit Ethernet – SFP)</p> <p>, IEEE 802.3ae (10 Gigabit Ethernet – SFP+), MSA (Multi-Source Agreement) compliant, RoHS compliant (environmentally safe), .</p> <p>Types of SFP / SFP+ Modules</p> <ul style="list-style-type: none"> <li>1G SFP (Gigabit Ethernet) : Data rate: 1.25 Gbps, Fiber types: SX (Multimode), LX (Single Mode) Wavelength: 850 nm (SX) 1310 nm (LX) Transmission distance: MMF: up to 550 m SMF: up to 10–20 km (standard)</li> <li>10G SFP+ (Enhanced SFP): Data rate: 10.3125 Gbps Fiber types:, SR (Short Range – MMF), LR (Long Range – SMF), Wavelength: 850 nm (SR), 1310 nm (LR), Transmission distance:, SR: up to 300–400 m (OM3/OM4 fiber), LR: up to 10 km (standard SMF)</li> </ul> |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| List of Existing Inventory with Make and Model For Reference |                     |        |                                                                                                                                                                                                                                                                                                |      |      |
|--------------------------------------------------------------|---------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| S.N.                                                         | Description of Item | Make   | Model                                                                                                                                                                                                                                                                                          | Qty. | Unit |
| 1                                                            | Laptops             |        |                                                                                                                                                                                                                                                                                                | 159  | Nos. |
|                                                              |                     | HP     | 6730b,<br>2730p                                                                                                                                                                                                                                                                                |      |      |
|                                                              |                     | DELL   | Latitude E5410<br>Latitude E5420<br>Latitude E5430<br>Vostro 2520<br>INS.15 5590-17<br>Vostro 3590<br>Dell Inspiron 5402<br>Dell Notebook Vostro 3510<br>Dell Vostro 3590<br>Dell Inspiron 5402                                                                                                |      |      |
|                                                              |                     | SONY   | Sony VIO VPC<br>EB1AGB/B                                                                                                                                                                                                                                                                       |      |      |
|                                                              |                     | LENOVO | Z-50-70                                                                                                                                                                                                                                                                                        |      |      |
| 2                                                            | Desktop System      |        |                                                                                                                                                                                                                                                                                                | 840  | Nos. |
|                                                              |                     | HP     | Compaq dc7900<br>HP Compaq 8000 Elite<br>HP Compaq 8200 Elite<br>HP Compaq 8300<br>HP DX 2000 Series<br>HP Compaq 3000 Series<br>HP 3090 C2D<br>HP Elite Desk 800GI<br>HP 406G1<br>HP Pavallion 510<br>HP A10<br>HP Pro Desk600G3<br>HP Pavallion 570<br>HP, 400 G4<br>HP 8700<br>HP 406 G1 MT |      |      |
|                                                              |                     | Acer   | Variant M-200                                                                                                                                                                                                                                                                                  |      |      |

|   |                |           |                                                                                                                                                                                                                                                                                      |     |      |
|---|----------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
|   |                | Dell      | Opti Plex 9020<br>Dell Opti Plex 7050<br>DELL, Optiplex, 3060<br>MT                                                                                                                                                                                                                  |     |      |
|   |                | Lenovo    | Lenovo Think centre<br>M93                                                                                                                                                                                                                                                           |     |      |
|   |                | ACXXEL    | Desk ACL-270DS                                                                                                                                                                                                                                                                       |     |      |
| 3 | Server         |           |                                                                                                                                                                                                                                                                                      | 11  | Nos. |
|   |                | DELL      | Dell Power Edge R820<br>Dell Power Edge T430<br>Dell Power Edge T440                                                                                                                                                                                                                 |     |      |
|   |                | HP        | HP ProLiant ML 350<br>HP ProLiant ML10                                                                                                                                                                                                                                               |     |      |
|   |                | IBM       | IBM Server X3300 M4                                                                                                                                                                                                                                                                  |     |      |
| 4 | Printers       |           |                                                                                                                                                                                                                                                                                      | 182 | Nos. |
|   |                | HP        | HP 3015Dn<br>HP MFP 1005<br>HP LaserJet Pro<br>M1536dnf MFP<br>HP Laser Jet Pro MFP<br>M476DW<br>HP LaserJet Pro 252dw<br>Laser Jet Pro MFP<br>M126NW<br>HP Laser Jet Pro<br>MFP M226dw<br>HP Laser Jet Pro<br>M203Dw<br>HP Laser Jet Pro MFP<br>M226dw<br>HP LaserJet MFP 329<br>DW |     |      |
|   |                | Canon     | EPSON L310 Printer<br>EPSON L805 Printer<br>Laserjet MF 3010<br>Canon MFP 269dW<br>Canon Mono Laser<br>Printer -LBP 6030B<br>Canon MF 244 DW<br>Canon MFP 241 D                                                                                                                      |     |      |
|   |                | EPSON     | EPSON L805 Printer                                                                                                                                                                                                                                                                   |     |      |
|   |                | Lexmark   | Lexmark Ms 312Dn<br>Lexmark MB2236ADW                                                                                                                                                                                                                                                |     |      |
|   |                | Kyocera   | Ecosys FS-1020 MFP                                                                                                                                                                                                                                                                   |     |      |
| 5 | LCD Projectors |           |                                                                                                                                                                                                                                                                                      | 66  | Nos. |
|   |                | Epson     | Epson EB-825                                                                                                                                                                                                                                                                         |     |      |
|   |                | SANYO     | SANYO XK3010                                                                                                                                                                                                                                                                         |     |      |
|   |                | Panasonic | Panasonic LCD LX30H                                                                                                                                                                                                                                                                  |     |      |
|   |                | Sony      | VPL-EW246                                                                                                                                                                                                                                                                            |     |      |
|   |                | Hitachi   | CP-X4015 WN                                                                                                                                                                                                                                                                          |     |      |
|   |                | BENQ      | BENQ MW 560                                                                                                                                                                                                                                                                          |     |      |
| 6 | CCTV System    |           |                                                                                                                                                                                                                                                                                      |     |      |
|   | IP Camera      |           |                                                                                                                                                                                                                                                                                      | 140 | Nos. |
|   |                | CP Plus   | CP-UNC-DA41L38-D-                                                                                                                                                                                                                                                                    |     |      |

|   |                                         |                                           |                                                                                   |     |      |
|---|-----------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------|-----|------|
|   |                                         |                                           | LQ                                                                                |     |      |
|   |                                         | Hikvision                                 | DS-2CD1043G0-1                                                                    |     |      |
|   |                                         | Honeywell                                 | HICC-2600T                                                                        |     |      |
|   |                                         | Honeywell                                 | HIDC-2300V                                                                        |     |      |
|   |                                         | Matrix                                    | SATATYA<br>MIDR20FL36CWS                                                          |     |      |
|   |                                         | Matrix                                    | SATATYA<br>CIBR50FL40CWS                                                          |     |      |
|   | DVR Camera                              |                                           |                                                                                   | 26  | Nos. |
|   |                                         | Hikvision                                 | DS-2CD1023G0E-I                                                                   |     |      |
|   | Switch (24 port)                        | HP,<br>NETGEAR                            |                                                                                   | 3   | Nos. |
|   | Switch (16 port)                        | TP Link                                   |                                                                                   | 1   | Nos. |
|   | Switch (8 port)                         | DLINK,<br>CPPLUS                          |                                                                                   | 24  | Nos. |
|   | Switch (4 port)                         | CPPLUS                                    |                                                                                   | 1   | Nos. |
|   | 42" Screen                              | LG                                        |                                                                                   | 2   | Nos. |
|   | 32 Channel NVR                          | Matix<br>Hikvision                        | 32 Channel                                                                        | 8   | Nos. |
|   | <b>16 Channel NVR</b>                   | CP Plus                                   | 16 Channel                                                                        | 1   | Nos. |
|   | 8 Channel NVR                           | Matix<br>Hikvision                        | 8 Channel                                                                         | 4   | Nos. |
|   | 4 Channel NVR                           | Matix                                     | 4 Channel                                                                         | 1   | Nos. |
|   | Hard Disk                               | Seagate                                   | 10 TB                                                                             | 15  | Nos. |
|   | Hard Disk                               | Seagate                                   | 8 TB                                                                              | 1   | Nos. |
|   | Hard Disk                               | Seagate                                   | 4 TB                                                                              | 3   | Nos. |
|   | Hard Disk                               | Seagate                                   | 2 TB                                                                              | 2   | Nos. |
| 7 | <b>Biometric Access Control Systems</b> |                                           |                                                                                   |     |      |
|   | Face Biometric Machine                  |                                           |                                                                                   | 59  | Nos. |
|   |                                         | ESSL                                      | Uface 602<br>MB160                                                                |     | Nos. |
|   |                                         | Mantra                                    | BIOFACE- MSD 1K                                                                   |     | Nos. |
| 8 | <b>Voice System</b>                     |                                           |                                                                                   |     |      |
|   | IP-PBX Machine                          | Matrix Prasar<br>UCS                      | Spark 200                                                                         | 02  | Nos. |
|   | IP Phone                                | Matrix Sparsh                             | VP330 E<br>VP110<br>VP 220<br>VP 510 E                                            | 152 | Nos. |
|   | IP Phone DSS KEY                        | Matrix DSS<br>Key                         | DSS530                                                                            | 05  | Nos. |
| 9 | <b>Data Networking System</b>           |                                           |                                                                                   |     |      |
|   | Switch (48 Port)                        |                                           |                                                                                   | 27  | Nos. |
|   |                                         | DLINK<br>Netgear<br>AIRPRO                | DGS3120-48 PC<br>ProSafe GS752TPP<br>APSG 4500-52GT                               |     |      |
|   | Switch (24 Port)                        |                                           |                                                                                   | 107 | Nos. |
|   |                                         | Brocade<br>Dlink<br>HCL<br>SIS<br>Digisol | ICX7250-24P<br>DGS 3120-24 PC<br>DES-1024D<br>HCL 22GTMS-2GCS<br>SIS Sunny 24 MSG |     |      |

|    |                                                                                                                                                                                                                                   |                                          |                                   |      |      |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------|------|------|
|    |                                                                                                                                                                                                                                   | CISCO                                    | DG GS 1528<br>DG GS 1028D<br>SG92 |      |      |
|    | Switch (16 Port)                                                                                                                                                                                                                  |                                          |                                   | 1    | Nos  |
|    | Switch (8 Port)                                                                                                                                                                                                                   |                                          |                                   | 4    | Nos  |
|    |                                                                                                                                                                                                                                   | Netgear                                  |                                   |      |      |
|    | Core Switch (48 Port)                                                                                                                                                                                                             | Brocade                                  | ICX7750 – 48F                     | 4    | Nos. |
|    | LAN points                                                                                                                                                                                                                        |                                          |                                   | 3096 | Nos. |
| 10 | <b>Audio Video Conferencing System</b>                                                                                                                                                                                            |                                          |                                   |      |      |
|    | Group Video Conferencing device including TV/Interactive Panel, camera, speakerphone with USB plug-and-play connectivity in Board Room and VC Secretariat                                                                         | Globus, Logitech, Pentagon               | Group Webcam                      | 02   | Nos. |
|    | Audio-Visual Conference System including Digital Podium, Camera, Microphones, Speakers, TVs, Amplifiers, HDMI Switcher, Cables & Connectors and associated accessories installed in NAAC room and VC Secretariat conference room. | Ahuja, Bosch, Ekin, Globus, Samsung, LG, |                                   | 02   | Nos. |
| 11 | <b>Smart Classrooms System including PA System</b>                                                                                                                                                                                |                                          |                                   |      |      |
|    | Smart Classroom equipped with interactive screen 75/86/110 inch, audio systems, digital podium with mini PC, PTZ cameras and other related items                                                                                  |                                          |                                   | 1    | Nos. |
|    | Interactive Panel Globus Impact i86-V3                                                                                                                                                                                            | Globus                                   |                                   | 2    | Nos. |
|    | Electronic Lectern Globus GEL 203                                                                                                                                                                                                 | Globus                                   |                                   | 1    | Nos. |
|    | Electronic Lectern Globus GEL 203                                                                                                                                                                                                 | Globus                                   |                                   | 1    | Nos. |
|    | Interactive Panel Globus Impact i75-V                                                                                                                                                                                             | Globus                                   |                                   | 1    | Nos. |
|    | Video Conferencing Camera Globus Impact ATC6-V20                                                                                                                                                                                  | Globus                                   |                                   | 7    | Nos. |
|    | Interactive Panel Globus Impact i75-V3                                                                                                                                                                                            | Globus                                   |                                   | 7    | Nos. |
|    | Video Conferencing Camera Globus Impact AIC6-V30                                                                                                                                                                                  | Globus                                   |                                   | 2    | Nos. |
|    | Electronic Lectern GEL 202 Globus                                                                                                                                                                                                 | Globus                                   |                                   | 9    | Nos. |
|    | Micro PC GIL MPC-                                                                                                                                                                                                                 | Globus                                   |                                   | 9    | Nos. |

|    |                                                           |                        |                                                                                   |   |      |
|----|-----------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------|---|------|
|    | 195INTEL                                                  |                        |                                                                                   |   |      |
|    | Interactive Panel Globus Impact i86-V3                    | Globus                 |                                                                                   | 2 | Nos. |
|    | Video Conferencing Camera Globus Impact UC6PV12           | Globus                 |                                                                                   | 9 | Nos. |
|    | Video Conferencing MCU (VC-LMS 05/50)                     | Globus                 |                                                                                   | 1 | Nos. |
|    | Video Conferencing Camera Globus Impact C6-PUV12B         | Globus                 |                                                                                   | 1 | Nos. |
|    | Interactive Panel Globus Impact i75-V3                    | Globus                 |                                                                                   | 2 | Nos. |
|    | Electronic Lectern GEL 202                                | Globus                 |                                                                                   | 2 | Nos. |
|    | Video Conferencing Camera Impact C6UH-V20                 | Globus                 |                                                                                   | 2 | Nos. |
| 12 | <b>Heavy Duty Photocopier, Xerox and Scanner Machines</b> |                        |                                                                                   |   |      |
|    |                                                           | Canon                  | Image Runner Advance 4525                                                         | 1 | Nos  |
|    |                                                           | Sharp                  | MX M265NV                                                                         | 1 | Nos  |
|    |                                                           | Xerox                  | Versalink B7025                                                                   | 1 | Nos  |
|    |                                                           | Canon                  | Image Runner 2006 N                                                               | 3 | Nos  |
|    |                                                           | Canon                  | Image Runner Advance 4525                                                         | 1 | Nos  |
|    |                                                           | Xerox                  | Versalink B7035                                                                   | 1 | Nos  |
|    |                                                           | Sharp                  | Color Machine BP 50C31                                                            | 1 | Nos  |
|    |                                                           | Sharp                  | MX M5050                                                                          | 1 | Nos  |
|    |                                                           | RICOH                  | IM C2000                                                                          | 1 | Nos  |
|    |                                                           | Canon                  | Image Runner Advance 3520                                                         | 1 | Nos  |
|    |                                                           | HP                     | M72630 DN                                                                         | 1 | Nos  |
|    |                                                           | Canon                  | Image Runner 2620                                                                 | 1 | Nos  |
|    |                                                           | Xerox                  | WC 5225                                                                           | 1 | Nos  |
|    |                                                           |                        |                                                                                   |   |      |
| 13 | <b>Auditorium PA System with Visual devices</b>           |                        |                                                                                   |   |      |
|    | Mixer (32 Channel)                                        | Yamaha                 | MG32/14FX                                                                         | 1 | Nos. |
|    | Mixer (32 Channel)                                        | Soundcraft             | SI Expression                                                                     | 1 | Nos. |
|    | Mixer (8 Channel)                                         | StudioMaster           | AIR 8                                                                             | 1 | Nos. |
|    | Mixer (6 Channel)                                         | StudioMaster           | AIR 6                                                                             | 2 | Nos. |
|    |                                                           | JBL<br>Yamaha          | EON 615<br>MSR 400                                                                | 4 | Nos. |
|    | Microphones(Podium, Wired, wireless, Gooseneck)           | Ahuja<br>Studio Master | ACM 96 CH<br>AWM-495 VM<br>Goose Mic 18<br>ABM 301<br>BETA 58AL<br>700HL<br>XR20L |   | Nos. |

|    |                                                  |                                                          |                                                       |     |      |
|----|--------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------|-----|------|
|    | Amplifier                                        | Ahuja<br>Crown                                           | LXA 700 UH<br>XLS 2500<br>I-Tech 12000<br>I-Tech 5000 | 8   | Nos. |
|    | Auditorium Projector with<br>Creston Device WiFi | Barco                                                    | RLM-W12                                               | 1   | Nos. |
|    | LED Wall Units                                   |                                                          |                                                       | 4   | Nos. |
| 14 | <b>Offline UPS's (600VA &amp; 1KVA)</b>          |                                                          |                                                       |     |      |
|    | 600 VA Offline UPS                               | BPE<br>INTEX<br>MICROTECH<br>APC<br>Lumionus<br>Numerick |                                                       | 250 |      |
|    | 1 KVA Offline UPS                                | BPE<br>INTEX<br>MICROTECH<br>APC<br>Lumionus<br>Numerick |                                                       | 70  |      |

- The inventory/details mentioned in the tender document are purely indicative in nature and are provided only for the purpose of evaluation, verification, and assessment of the scope of work by the bidder.
- CURAJ reserves the right to increase, decrease, modify, add, or delete any item(s), quantity(ies), component(s), location(s), or services covered under the scope of work at any stage during the contract period, depending upon actual site requirements, operational needs, technological changes, or administrative decisions, without any prior notice.
- The bidder shall be required to execute and maintain the services for the actual inventory/items installed and made operational from time to time, whether the same are more or less than the indicative inventory provided in the tender document.
- No claim, compensation, escalation, or dispute on account of variation in quantity, inventory, scope, model, specification, or number of equipment/items shall be entertained by CURAJ during the validity of the contract.

xi. **SH – XII - Comprehensive Maintenance of Horticulture and operation & maintenance of Drip Irrigation System.**

1. Comprehensive maintenance of trees, plants, shrubs, hedges, lawns, flower beds, creepers, potted plants, grass and all horticulture areas including those of cricket ground, football ground, hockey ground and other landscaped areas within the campus of the Central University of Rajasthan.
2. The maintenance work shall include weeding, pruning, gap filling, watering, mowing of lawns, hoeing, hedge clipping, trimming, application of insecticides, pesticides and fertilizers, top dressing of lawns with good earth and manure, removal of dry leaves, cleaning of landscaped areas and all other horticulture maintenance works as directed by the University from time to time.
3. The contractor shall supply all fertilizers, manure, pesticides, insecticides, plant protection materials and other consumables required for proper maintenance of horticulture and landscaped areas. No extra payment shall be made on this account.
4. The contractor shall develop a nursery in the university campus and grow atleast 50 ornamental plants (indoor/outdoor) every month to the university.
5. The contractor/agency shall arrange all required tools, tackles, machinery and equipment for horticulture maintenance works. Electricity required for operation of equipment shall be provided by the University free of cost. The cost of fuel, lubricants, repairs and maintenance of machinery/equipment shall be borne by the contractor.
6. The work shall include comprehensive operation and maintenance of Drip Irrigation Systems, sprinkler irrigation systems installed at cricket ground, football ground, hockey ground and other locations of the University campus, around 16 KM peripheral. The scope includes periodic inspection, cleaning, oiling, greasing, routine maintenance, realignment and repair/replacement of consumables and accessories such as super flow screen filters, gravel filters, pressure relief valves, non-return valves, stainless steel pressure gauges, bypass valves, PP/PVC control valves, ball valves, sub-main flush valves, reinforced nylon air release valves, CPVC gate valves, disc clean filters, PVC pipes, fittings and all other associated components as per the directions of the University. Electricity for operation shall be provided by the University free of cost.
7. The contractor shall deploy experienced manpower for operation of water pump sets and drip irrigation/sprinkler systems for watering of plants and landscaped areas. Proper log books/registers for operation and maintenance of water pumps and irrigation systems including sports grounds shall be maintained by the contractor.
8. The contractor shall maintain sufficient number of qualified and experienced staff / manpower as per the requirement at all times to ensure uninterrupted services and shall make suitable arrangements against absenteeism due to leave, weekly offs, holidays, medical issues or any other exigencies.
9. Experienced supervisors shall be deployed for comprehensive horticulture maintenance and operation & maintenance of drip irrigation systems of the University. However, the number is indicative only and the contractor shall deploy additional manpower whenever required for satisfactory execution of work without any extra cost to the University.
10. The agency shall undertake development and maintenance of gardens, lawns, trees, indoor/outdoor plants and landscaped areas on regular basis. The contractor shall also arrange all required consumables, durables, tools, equipment and machinery necessary for execution of

horticulture works.

11. University has its own tools / equipment's / machinery, the same may be used by the agency however, the running cost of the same will be borne by the agency. Further, it will be the responsibility of the agency to keep functioning all such equipment's / tools / machinery at all time.
12. The Potted Plants are to be maintained at least at the present level of maintenance in the buildings, both inside the Corridors on all floors and around the building including university nursery.
13. Cleaning jungle including uprooting of rank vegetation, grass, bush wood, etc., as required by the University.
14. The contractor shall provide, maintain and replace hedges, doob grass as patch work where dead and shrubs at all required locations within the University campus as directed by the University. Wherever gaps occur due to drying, damage or any other reason, immediate plantation/replacement shall be carried out to maintain proper density, continuity and uniform appearance of hedges and landscaped areas. The maintenance shall include watering, trimming, manure application, replacement of damaged plants and overall upkeep throughout the contract period.
15. It will be the responsibility of the agency to ensure healthiness of the plants. In case of mortality of trees, agency has to replace the same with appropriate size trees without any extra charges.
16. The contractor shall provide seasonal plants, flowers and potted plants as required and as approved by the University from time to time. Creepers and other plants installed on green walls, façades and boundary walls shall be replaced wherever required including removal of weeds, unwanted grass and dry leaves for proper maintenance and aesthetic appearance of the campus.
17. The agency shall maintain proper records of attendance of all deployed staff and the same shall be produced for verification/inspection by the University authorities whenever required.
18. The basic horticulture related information is given below:
  - Lawn area - 20 Acre shall be provided by the contractor).
  - Trees 11 years old -16887 Nos.
  - Hedge - 8749 Rft
  - Shrubs - 11847 Nos.
  - Flower pots -200
  - Maintenance of Drip Irrigation System installed in the University around 16 KM peripheral.
  - Total road length including Footpath, CC Road, Bituminous and Paver Path, etc. = 10 KM.

**Note:** Bidders need to simply quote rates for the items given in 'Annexure – VIII' in Part-B, through 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 or otherwise, as per the discretion of the Competent Authority of CU Rajasthan. For the works, if provided under this part, the agency will be paid for the works provided on an actual basis only.

xii. **SH – XIII - Mechanized Housekeeping Services, Garbage Collection & Disposal Services, and Pest Control Services at CURAJ.**

1. The housekeeping services shall include mechanized and manual cleaning, sweeping, wiping, dusting, mopping, washing, scrubbing, vacuum cleaning, stain removal, freshening, garbage collection, segregation, lifting, transportation and disposal of waste to Government approved garbage treatment/disposal facilities and all other allied housekeeping activities as directed by the authorities of the Central University of Rajasthan from time to time.
2. The scope of housekeeping services shall include, but not be limited to, cleaning of buildings, surrounding open areas, pathways, roads and common areas, overhead and underground water tanks, sweeping, mopping of floors, vacuum cleaning of carpets, dusting of furniture, fixtures, railings, doors, windows, toilets, bathrooms, equipment and allied housekeeping works excluding students' personal belongings/rooms in hostels unless specifically directed by the University authorities.
3. All washrooms cleaning should be twice in a day with record charts and system (Electronics) to give immediate feedback by users.
4. The contractor shall ensure hygienic and disinfected conditions in all buildings and surrounding areas at all times. The housekeeping work shall be executed using suitable mechanized equipment, cleaning tools, chemicals, disinfectants and consumables as approved by the University.
5. No request / information for housekeeping requirement from anybody will be made, it will be the duty of agency authorized person / staff to ensure proper cleaning and hygienic conditions. Any request / complaint will be viewed as non-execution of housekeeping services and will be treated accordingly.
6. Frequency of Services: The frequency of housekeeping services shall vary for different activities/areas and shall include daily, weekly, fortnightly, monthly and periodic tasks as specified in the respective schedules and as directed by the University authorities.
7. The contractor shall provide all types of dustbins of adequate capacity, as required, at all designated locations throughout the University during the contract period.
8. The contractor shall be responsible for collection, segregation, transportation and disposal of solid waste generated within the University campus through its own manpower, tools, machinery and vehicles. Disposal of waste outside the University campus shall be carried out at designated landfill/disposal sites as approved by the competent authority/local body. The scope shall include:
  - a) Collection and disposal of garbage at least once daily from all buildings, road sides of University campus and all other locations where dustbins are placed. Primary disposal responsibility shall be outside the University campus.
  - b) Maintenance of hygienic conditions in the campus through routine garbage collection, lifting and safe disposal practices.
  - c) Disposal of recyclable and non-recyclable waste as per applicable Government norms and environmental guidelines.
  - d) Collection of waste from dumping points within the campus and transportation/disposal through contractor's own vehicles to authorized disposal locations.
  - e) Lifting, carrying and disposal of dead birds, animals, rodents, reptiles, insects and similar unwanted materials found within or around the campus premises.
  - f) It shall be the responsibility of the agency / company to look after the cleaning of nearby area where dustbins are placed / garbage site.
9. Housekeeping Monitoring and Control System - For effective management, monitoring and

smooth execution of services, the contractor shall develop a system. It will be the responsibility of the agency / company to maintain cleaning and hygienic conditions of the all the buildings, outsides the buildings, roads and their sides, etc.

10. Toilet Checklist: A checklist shall be maintained for each toilet block and updated daily by the deployed housekeeping supervisor/staff.
11. Housekeeping Complaint Register/Report: The contractor shall maintain records of complaints received verbally, through email or through inspection reports from University officials and shall take immediate corrective action.
12. Housekeeping Record Register: The contractor shall maintain records related to attendance, deployment of manpower, inspection details, housekeeping materials, complaints and rectification reports in prescribed formats.
13. Garbage Disposal Monitoring: Garbage shall be collected in colour-coded bags and disposed of outside the University campus as per approved procedures.
14. Terrace Cleaning: The contractor shall periodically clean terraces, rooftop areas and terrace drain outlets as per instructions of the University.
15. Deployment of Manpower: The contractor shall submit details of deployment of housekeeping staff along with the technical bid. At least one housekeeping staff shall be deployed for every 3000 Sq.m. area in shifts as decided by the University. However, the contractor shall deploy additional manpower wherever required for maintaining proper housekeeping standards without any additional cost to the University.
16. Machinery and Equipment: The contractor shall deploy only technically suitable and approved machinery/equipment for mechanized housekeeping services. All machines/equipment shall be maintained in proper working condition throughout the contract period. The contractor shall arrange all required housekeeping machinery such as scrubber dryers, vacuum cleaners, wet & dry vacuum cleaners, floor polishing machines, high-pressure jet machines and other necessary equipment complete in all respects. Machines required for cleaning, cutting, and other related purposes shall be kept on the campus of C.U. Raj and properly maintained.
17. University has its own tools / equipment's / machinery, the same may be used by the agency however, the running cost of the same will be borne by the agency. Further, it will be the responsibility of the agency to keep functioning all such equipment's / tools / machinery at all time.
18. Cleanliness and Hygiene: The contractor shall ensure that all buildings, toilets, common areas, roads, parkings, pathways and surrounding premises are maintained in clean, hygienic and disinfected condition at all times.
19. Chemicals and Consumables: The contractor shall ensure regular availability of all required cleaning materials, consumables, chemicals and disinfectants as specified in the tender document. Sufficient stock of cleaning materials, consumables and chemicals is maintained within the University premises. The monthly requirement of materials shall be available at the beginning of each month for smooth functioning of housekeeping services. Only approved brands and standard quality materials shall be used. In case substandard or unapproved materials are supplied, the University reserves the right to reject the materials and take action as per tender conditions. Proper records regarding receipt, issue and consumption of housekeeping materials/chemicals are maintained and produced for verification whenever required.
20. The agency / company should submit the status of availability of Chemicals and Consumables every fortnight to the University along with bills of purchase of above chemicals and consumables. If found deficient the penalty will be levied.

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

|      |                                                                                                                  |                          |
|------|------------------------------------------------------------------------------------------------------------------|--------------------------|
| i)   | Carpet Area (For cleaning and up-keeping purpose)                                                                | <b>2,24,501.09</b> 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                                                                                 | 42*                      |

The total built-up area of the University is approximately **2,24,501.09** Sq.m., other than parking areas. The University road network is approximately 9.8 KM (Bituminous, Paver Path and Concrete) in length, and the campus comprises 40 buildings. In addition, 07 buildings with a total built-up area of approximately 61,217.16 Sq.m. are presently under construction.

1. Indicative Frequency / Schedule of Work for Mechanized Housekeeping Services:

| Sl.No. | Activity           | Frequency                                                                                                                                 |                                                  |               | Machines/<br>Equipment                |
|--------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------|---------------------------------------|
|        |                    | Daily                                                                                                                                     | Weekly                                           | Monthly       |                                       |
| 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                                                             | Scrubbing & Drying with Single Disk & Wet Dryer  | Deep Cleaning | High Pressure Jet & Wet & Dry Vacuum  |

|    |                                            |                                                                                                                                          |                                                                      |               |                           |
|----|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------|---------------------------|
|    |                                            | consumables in all the circulation area inside the building                                                                              |                                                                      |               |                           |
| 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 Vaccume 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 lines 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                |
| 17 | Cleaning of Different types of finishing works in wall cladding             |     | Yes                                                |          |                           |
| 18 | Cleaning of underground/over head water tank                                |     |                                                    |          | Every 6 months            |
| 19 | Cleaning of Roof Ceiling, Terrace etc.                                      |     |                                                    | Yes      |                           |
| 20 | Cleaning of Portable fire extinguishers/smoke detectors/Fire detectors      |     | Yes                                                |          |                           |
| 21 | Cleaning of Fire pump panel                                                 |     | Yes                                                |          |                           |
| 22 | Cleaning of valves /piping of all types/Fire hydrant panels                 |     | Yes                                                |          |                           |
| 23 | Cleaning of Switch boards/Panels/distribution boards With safety equipments |     | Yes                                                |          |                           |
| 24 | Cleaning of Fans/exhaust fans & accessories                                 |     | Yes                                                |          |                           |
| 25 | Cleaning of External lighting fittings & accessories                        |     | Yes                                                |          |                           |
| 26 | Cleaning of Lifts                                                           | Yes |                                                    |          |                           |

|    |                                                                                     |     |     |     |                         |
|----|-------------------------------------------------------------------------------------|-----|-----|-----|-------------------------|
| 27 | Cleaning of Computers and its accessories, Telephone sets and all other Misc. items | Yes |     |     |                         |
| 28 | Cleaning of all equipments available in UPS room                                    |     | Yes |     |                         |
| 29 | Cleaning of Pump room with equipments available                                     |     | Yes |     |                         |
| 30 | Cleaning of cable trays, cable trench covers                                        |     |     | Yes |                         |
| 31 | Cleaning of Air conditioners                                                        |     | Yes |     |                         |
| 32 | Cleaning of Sign Boards/Name Boards                                                 |     | Yes |     |                         |
| 33 | Any other surfaces/area/services not mentioned above                                |     |     |     | Depends on requirements |

2. 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<br>Building no. 1 & 2- 4926.38 sq.mt each<br>Building no. 3 & 4- 4472.38 sq.mt each<br>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<br>SP I - 3000 sq.mt<br>SP III- 2500 sq.mt<br>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)<br>Hostel(G+3) B- 6(5091.38Sqm)<br>Hostel(G+3) B-7( 5217 Sqm)<br>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                                                                                                                                                                                     | 21756.00 | Sqm per month |

|   |                                                                                                                                                                                                                                                                                  |                               |               |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------|
|   | each)                                                                                                                                                                                                                                                                            |                               |               |
|   | 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)-1277.2Sqmt<br>(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<br>Type III – 281.98 sqm<br>Type II – 147.02 sqm<br>Type B – 1037.91 sqm<br>Type C – 320.03 sqm<br>Type D – 230.10 sqm<br>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<br>Eureka-Klar OR Johnson Diversey -<br>Note: Concentrate solution          | 25                       | Ltr. |
| 2     | Hard Surface Cleaner– R2<br>Eureka - A Marine OR Johnson Diversey<br>Note: (Concentrate solution) | 20                       | Ltr. |
| 3     | Glass Cleaner– R3<br>Eureka - Plural Plus OR Johnson<br>Diversey<br>Note: Concentrate solution    | 25                       | Ltr. |
| 4     | Urinal & Bowl Cleaner– R6<br>Eureka - WC Rein OR Johnson Diversey<br>Note: Concentrate solution   | 30                       | Ltr. |
| 5     | Floor Polisher- Terranova<br>Eureka – Cris OR Johnson Diversey                                    | 15                       | Ltr. |

|    |                                                                                          |                    |      |
|----|------------------------------------------------------------------------------------------|--------------------|------|
|    | Note: Concentrate solution                                                               |                    |      |
| 6  | Floor Cleaner<br>Eureka - Clean 6000 OR Johnson Diversey                                 | 1000               | Ltr. |
| 7  | Rust Remover Spiral -R1<br>Eureka-Klar OR Johnson Diversey<br>Note: Concentrate solution | 35                 | Ltr. |
| 8  | Room Freshner- R5<br>Eureka-Klar OR Johnson Diversey                                     | As per requirement | Ltr. |
| 9  | R-9 (Water spot remover)<br>Eureka-Klar OR Johnson Diversey                              | As per requirement | Ltr. |
| 10 | Suma Scal D-5.2 (For sewer cleaning)<br>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.

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

| <b>Sl. No.</b> | <b>Item</b>                                                                                                                                                                                                      | <b>Indicative quantity to be deployed</b> |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 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                                        |
| 9.             | Wet & Dry Vacuum Cleaner                                                                                                                                                                                         | 9                                         |

**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.
4. University has its own tools / equipment's / machinery, the same may be used by the agency however, the running cost of the same will be borne by the agency. Further, it will be the responsibility of the agency to keep functioning all such equipment's / tools / machinery at all time.

## **PEST CONTROL**

1. Pest Control means eradication of Cockroaches, Mosquitoes, Flies, Lizards, Termite, spider management, Rodent management, bee hives, etc., through permitted insecticides as per Government of India and WHO norms. This also includes disinfestations services in and around the building.
2. The pest control should cover all the places like 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.
3. Rodent Control: Rodent controlling should be done as per orders and instructions of the University authority.
4. Pest Control should be conducted on monthly basis. If required, it may be done on weekly basis or fortnightly. 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.
5. 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.
6. Removal/relocation of honey bee hives, bee colonies and similar infestations shall be carried out in accordance with applicable Government norms, environmental guidelines and safety protocols including GoI provisions. The contractor shall ensure safe and humane handling/removal practices without causing unnecessary harm to wildlife, residents, students, staff and surrounding environment.
7. 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.
8. Rodent control shall be done in entire building including basement, Cable Trenches, Electrical Rooms, AHU Rooms, Substation, All the shafts Rooms, etc.
9. Agencies are advised to visit the place of work for assuring the nature and volume of work realistically before quoting the rates.

xiii. **SH – XIV - Hiring Manpower with fixed remuneration through agency at CURAJ**

Approximate number of manpower requirement will be 85. 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. The yearly wages/salary of manpower/deputed staff, approximately Rs. 3.00 Cr. has been included in the estimated cost put to the tender.

**SH-XIV (A): Manpower for office work**

| Post                                      |                      |                           |
|-------------------------------------------|----------------------|---------------------------|
| Section Officer                           | Assistant            | Telephone Operator        |
| Senior Accounted                          | Hindi Translator     | Hostel Attendant          |
| Nursing Officer                           | Junior Engineer      | Kitchen Supervisor        |
| Technical Assistant                       | Video Editor         | MTS (Multi-Tasking-Staff) |
| Junior Accounted                          | Gym Trainer          | Laboratory Attendant      |
| Laboratory Assistant                      | Upper Division Clerk | Library Attendant         |
| Data Entry Operator/ Lower Division Clerk | Driver               |                           |

**SH-XIV (B): Manpower for Civil work along with all necessary tool, machinery & Equipments-**

Manpower (Highly-skilled, skilled, unskilled) required for day-to-day civil repair, maintenance and allied works along with tool, machinery, Equipments such as Ladder, Scaffolding etc. Remuneration of such manpower will be paid by the University as per Central Govt minimum wages and as per university norms. The minimum basic tools/machinery required for working of Plumber, Carpenter, Masson, Painter, Welder, Helper etc. are to be provided by bidder. No separate payment will be made.

*Agency shall prepare list of material required for maintenance such as plumbing, carpentry, painting etc. and submit it to the University.*

| Post/Trade       |         |        |
|------------------|---------|--------|
| Field Supervisor | Plumber | Welder |
| Masson           | Painter | Helper |
| Carpenter        |         |        |

**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 shall not be below the age of 18 (eighteen) years and shall be physically fit to perform the assigned duties.
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.

## **PENALTY CLAUSE**

Central University of Rajasthan by its any authorized person/committee at all times reserves the right to inspect the services without any prior notice. In case of any lacking in services of above scope of work such as cleaning/hygiene/maintenance work/ horticulture/delay/, etc., discrepancy and non-compliances in term of service rendered or any case of negligence, appropriate penalty as decided by the University or its committee, will be levied and will be deducted from the monthly bill. A list of penalties is given below:

| <b>Topic</b>                                                               | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Time Limit</b>                 | <b>Penalty Amount</b>                                                 |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------|
| Establishment of 24*7 Customer Care Service                                | The contractor/agency shall establish and operate a <b>24×7</b> Customer Care Service for receiving complaints through call/SMS/email/WhatsApp or any other approved mode. The Customer Care Service shall forward the complaint immediately to the concerned team of the agency and shall track the status of each complaint until its satisfactory resolution. Proper records of complaints received, action taken, and closure status shall be maintained and submitted to the University as and when required. | Within 15 days from start of work | 2500/- per day                                                        |
|                                                                            | In case the Customer Care Service is found non-functional or complaints are not being properly attended, forwarded, monitored, or resolved within the prescribed time, a penalty of Rs. 1500/- per day shall be imposed and recovered from the bills of the contractor/agency. The decision of the University authority in this regard shall be final and binding on the contractor.                                                                                                                               | -                                 | 1,500/- Per day                                                       |
| Facility Management Staff                                                  | In case Team Leader/FM is found absent from his duty                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Daily                             | Rs. 2500/- per day                                                    |
|                                                                            | Penalty shall be imposed for non-availability of technical staff of each for civil maintenance, electrical, IT, housekeeping, and horticulture.                                                                                                                                                                                                                                                                                                                                                                    | Daily                             | Rs. 2000/- per day / per staff                                        |
| Denial of any assigned work by the service engineer/staff or bidder        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Within 24 Hours                   | 3,000 per day per incident or as decided by CURAJ                     |
| Routine Preventive Maintenance not conducted and non submission of report. | Daily                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Monthly                           | 2,000 per missed activity per category<br>Penalty shall be imposed on |

|                                                                                       |                                                                                                         |                                |                                                                                                                                        |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                       |                                                                                                         |                                | inspection if found preventive maintenance not completed in any location of university.                                                |
| Failure to deploy required qualified technical manpower                               | Immediate                                                                                               | 24 Hours                       | 2,000 per manpower per day                                                                                                             |
| Failure to submit qualification, experience certificate of deputed manpower           | Before Deputation                                                                                       | —                              | 2,000 per manpower per day per manpower.                                                                                               |
| Absence of the manpower                                                               | Immediate                                                                                               | Immediate                      | 2,000 per manpower per day per manpower.                                                                                               |
| Replacement not provided of manpower                                                  | Immediate                                                                                               | Immediate                      | 2,000 per manpower per day per manpower.                                                                                               |
| Non-availability of manpower on call in emergency situation in night/off office hours | Immediate                                                                                               | Immediate                      | 2,000 per manpower per requirement per manpower.                                                                                       |
| Submission of false service report / incomplete work                                  | —                                                                                                       | —                              | 5,000 per incident                                                                                                                     |
| Standby of items                                                                      | Immediate                                                                                               | 24 hours                       | For any non-availability of standby items, a penalty shall impose as Rs. 2,000 per day for assets and Rs. 500 per day for accessories. |
| Not returning of original equipments/items after repair/replace                       | Immediate                                                                                               | After 15 days<br>Date of fault | 2,000 per day                                                                                                                          |
| Not returning of original spare parts after repair/replace                            | Immediate                                                                                               | After 10 days<br>Date of fault | 300 per day or as per the nature of parts will be decided by CURAJ                                                                     |
| Housekeeping                                                                          | For poor quality of housekeeping work i.e. improper cleaning/sanitation, and drain blockage a spot fine |                                | Rs. 200/- per spot                                                                                                                     |
|                                                                                       | Clear blocked Sewer line, drain etc                                                                     | Same day                       | Rs. 2000/- per incident per day                                                                                                        |
| Civil Manpower                                                                        | Not providing tool, machinery,                                                                          | Same day                       | Rs. 500/- per day                                                                                                                      |

|                        |                                                                                         |                                                                                                                        |                                  |
|------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                        | Equipments such as Ladder, Scaffolding etc.                                             |                                                                                                                        | per incident                     |
| Horticulture           | Non-watering of lawns, trees, shrubs, hedges, flower beds, potted plants etc.           |                                                                                                                        | Rs. 1,000/- per instance         |
|                        | Drying/death of plants due to negligence of contractor                                  | The agency shall replace the same plant with equivalent or higher specification at its own cost.                       | Rs. 1,000/- per plant ,          |
|                        | Drying/death of Tree due to negligence of contractor                                    | The agency shall replace the same tree with appropriate height with equivalent or higher specification at its own cost | Rs. 10,000/- per tree            |
|                        | Non-cutting/pruning of grass, hedges, shrubs within prescribed time                     |                                                                                                                        | Rs. 1,000/- per instance         |
|                        | Non-removal of weeds/wild grass from horticulture areas                                 |                                                                                                                        | Rs. 1,000/- per instance         |
|                        | Non-maintenance of drip irrigation/sprinkler system                                     |                                                                                                                        | Rs. 1,000/- per location per day |
|                        | Gap created in hedges/shrubs not restored for maintaining proper density and uniformity |                                                                                                                        | Rs. 5,00/- per meter per day     |
|                        | Non-deployment of required manpower/tools & machinery for horticulture work             |                                                                                                                        | Rs. 1,000/- per day              |
|                        | Improper maintenance of sports grounds                                                  |                                                                                                                        | Rs. 2,000/- per Location per day |
|                        | Non-lifting/disposal of horticulture waste, dry leaves, branches etc.                   |                                                                                                                        | Rs. 1,000/- per Location per day |
|                        | Absence of Horticulture Supervisor/Site In-charge during working hours                  |                                                                                                                        | Rs. 1,500 per day                |
|                        | Absence of Gardener/Helper                                                              |                                                                                                                        | Rs. 1,500 per day per staff      |
| CAMC of Motors & Pumps | In case of minor/medium breakdown/fault , the issue must be resolved                    | Within 02 days of call/sms/email etc.                                                                                  | Rs. 500/- per day per unit       |
|                        | In case of major breakdown/fault , the issue must be resolved                           | Within 05 days of call/sms/email etc.                                                                                  | Rs. 500/- per day per unit       |
| Online UPS             | In case of minor breakdown/fault in                                                     | Within 03 days of                                                                                                      | Rs. 500/- per day                |

|                                  |                                                                                                                                                                           |                                              |                                                        |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------|
|                                  | the Online UPS, the issue must be resolved                                                                                                                                | call/sms/email etc.                          | per unit                                               |
|                                  | In case of major breakdown/fault in the Online UPS, the issue must be resolved                                                                                            | Within 07 days of call/sms/email etc.        | Rs. 500/- per day per unit                             |
| Solar Plant                      | In case of minor/medium breakdown/fault in the SPV On Grid Power Plant                                                                                                    | Within 03 days of call/sms/email etc.        | Rs. 500/- per day per unit                             |
|                                  | In case of major breakdown/fault in the SPV On Grid Power Plant                                                                                                           | Within 07 days of call/sms/email etc.        | Rs. 500/- per day per unit                             |
| Lift                             | The tenderer shall make alternate arrangement in case of absence of lift operator                                                                                         | Daily                                        | Rs. 1000/- per day                                     |
|                                  | In case of minor breakdown/fault in the Lift, the issue must be resolved                                                                                                  | Within 03 days of call/sms/email etc.        | Rs. 500/- per day per Unit                             |
|                                  | In case of major breakdown/fault in the Lift, the issue must be resolved                                                                                                  | Within 07 days of call/sms/email etc.        | Rs. 500/- per day per Unit                             |
| RO System                        | Attending the complaint within 24 hours of the intimation                                                                                                                 | After expiry of 24 hours period              | Rs. 1000/- per day of each complaint of each R.O. unit |
| Water Cooler                     | In case of minor breakdown/fault in the Water Cooler, the issue must be resolved                                                                                          | Within 03 days of call/sms/email etc.        | Rs. 500/- per day per Water Cooler                     |
|                                  | In case of major breakdown/fault in the Water Cooler, the issue must be resolved                                                                                          | Within 07 days of intimation                 | Rs. 500/- per day per Water Cooler                     |
| HVAC System                      | In case of minor breakdown/fault in the HVAC System, the issue must be resolved                                                                                           | Within 03 days of call/sms/email etc.        | Rs. 500/- per day per Unit                             |
|                                  | In case of major breakdown/fault in the HVAC System, the issue must be resolved                                                                                           | Within 07 days of call/sms/email etc.        | Rs. 500/- per day per Unit                             |
| Electric Sub-Station / DG Set    | 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. | Rs. 1,000/- per hour per unit                          |
|                                  | 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 02 days of call/sms/email etc.        | Rs. 1,000/- per hour per unit                          |
| Fire Hydrant & Fire Alarm System | In case of minor breakdown/fault , the issue must be resolved                                                                                                             | Within 03 days of call/sms/email etc.        | Rs. 500/- per day per Unit                             |
|                                  | In case of major breakdown/fault , the issue must be resolved                                                                                                             | Within 07 days of call/sms/email             | Rs. 500/- per day per Unit                             |

|                   |                                                                |               |                                                   |
|-------------------|----------------------------------------------------------------|---------------|---------------------------------------------------|
|                   |                                                                | etc.          |                                                   |
| Salary Payment    | In case of delayed payment, the Contractor may liable to pay   | Per day delay | Rs.500/- penalty per person for each day of delay |
| Uniform & ID Card | Penalty will be imposed for those not in uniforms and ID Cards | Daily         | Rs. 100/- per person per day                      |

FOR IT WORKS:

| S. No. | Equipment / Service Category | Response Time | Resolution Time | Penalty for Delay Beyond Resolution Time |
|--------|------------------------------|---------------|-----------------|------------------------------------------|
| 1.     | Laptops                      | 4 Hours       | 48 Hours        | 200 per system per day                   |
| 2.     | Desktop System               | 4 Hours       | 48 Hours        | 200 per system per day                   |
| 3.     | Server                       | 1 Hour        | 12 Hours        | 5,000 per day per incident               |
| 4.     | Printers                     | 4 Hours       | 48 Hours        | 200 per printer per day                  |
| 5.     | LCD Projectors               | 4 Hours       | 48 Hours        | 200 per printer per day                  |
| 6.     | IP Camera                    | 2 Hours       | 12 Hours        | 200 per day per incident                 |
| 7.     | DVR Camera                   | 2 Hours       | 12 Hours        | 200 per day per incident                 |
| 8.     | Switch (24 port)             | 2 Hours       | 12 Hours        | 1000 per day per incident                |
| 9.     | Switch (16 port)             | 2 Hours       | 12 Hours        | 500 per day per incident                 |
| 10.    | Switch (8 port)              | 2 Hours       | 12 Hours        | 200 per day per incident                 |
| 11.    | Switch (4 port)              | 2 Hours       | 12 Hours        | 100 per day per incident                 |
| 12.    | 42" Screen                   | 2 Hours       | 48 Hours        | 200 per day per incident                 |
| 13.    | 32 Channel NVR               | 2 Hours       | 12 Hours        | 2,000 per day per incident               |
| 14.    | 16 Channel NVR               | 2 Hours       | 12 Hours        | 1000 per day per incident                |
| 15.    | 8 Channel NVR                | 2 Hours       | 12 Hours        | 500 per day per incident                 |
| 16.    | 4 Channel NVR                | 2 Hours       | 12 Hours        | 250 per day per incident                 |
| 17.    | Surveillance Hard Disk       | 2 Hours       | 12 Hours        | 500 per day per incident                 |
| 18.    | Face Biometric Machine       | 4 Hours       | 12 Hours        | 200 per device per day                   |
| 19.    | IP-PBX Machine               | 4 Hours       | 48 Hours        | 2,000 per day per incident               |
| 20.    | IP Phone                     | 4 Hours       | 24 Hours        | 200 per device per day                   |
| 21.    | IP Phone DSS KEY             | 4 Hours       | 24 Hours        | 200 per device per day                   |
| 22.    | Switch (48 Port)             | 1 Hour        | 12 Hours        | 2,000 per day per incident               |
| 23.    | Switch (24 Port)             | 1 Hour        | 12 Hours        | 1,000 per day per incident               |
| 24.    | Switch (16 Port)             | 1 Hour        | 12 Hours        | 500 per day per incident                 |
| 25.    | Switch (8 Port)              | 1 Hour        | 12 Hours        | 500 per day per incident                 |
| 26.    | Core Switch (48 Port)        | 1 Hour        | 6 Hours         | 5,000 per day per incident               |

|     |                                                                                                                                                                                                                                   |           |          |                                                                      |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------------------------------------------------------------------|
| 27. | LAN points                                                                                                                                                                                                                        | 4 Hours   | 24 Hours | 200 per device per day                                               |
| 28. | Group Video Conferencing device including TV/Interactive Panel, camera, speakerphone with USB plug-and-play connectivity in Board Room and VC Secretariat                                                                         | 4 Hours   | 24 Hours | 1,000 per system per day                                             |
| 29. | Audio-Visual Conference System including Digital Podium, Camera, Microphones, Speakers, TVs, Amplifiers, HDMI Switcher, Cables & Connectors and associated accessories installed in NAAC room and VC Secretariat conference room. | 4 Hours   | 24 Hours | 1,000 per system per day                                             |
| 30. | Smart Classroom equipped with interactive screen 75/86/110 inch, audio systems, digital podium with mini PC, PTZ cameras and other related items                                                                                  | 4 Hours   | 24 Hours | 2,000 per system per day                                             |
| 31. | Heavy Duty Photocopier, Xerox and Scanner Machines                                                                                                                                                                                | 4 Hours   | 48 Hours | 2000 per machine per day                                             |
| 32. | Mixer (32 Channel) MG32/14FX                                                                                                                                                                                                      | 4 Hours   | 24 Hours | 1,000 per system per day                                             |
| 33. | Mixer (32 Channel) Expression                                                                                                                                                                                                     | 4 Hours   | 24 Hours | 1,000 per system per day                                             |
| 34. | Mixer (8 Channel)                                                                                                                                                                                                                 | 4 Hours   | 24 Hours | 500 per system per day                                               |
| 35. | Mixer (6 Channel)                                                                                                                                                                                                                 | 4 Hours   | 24 Hours | 500 per system per day                                               |
| 36. | Speakers                                                                                                                                                                                                                          | 4 Hours   | 24 Hours | 1,000 per system per day                                             |
| 37. | Microphones (Podium, Wired, wireless, Gooseneck)                                                                                                                                                                                  | 4 Hours   | 24 Hours | 200 per system per day                                               |
| 38. | Amplifier                                                                                                                                                                                                                         | 4 Hours   | 24 Hours | 1,000 per system per day                                             |
| 39. | Auditorium Projector                                                                                                                                                                                                              | 4 Hours   | 24 Hours | 1,000 per system per day                                             |
| 40. | LED Units                                                                                                                                                                                                                         | 4 Hours   | 24 Hours | 1,000 per system per day                                             |
| 41. | 600 VA Offline UPS                                                                                                                                                                                                                | 2 Hours   | 24 Hours | 200 per day per incident                                             |
| 42. | 1 KVA Offline UPS                                                                                                                                                                                                                 | 2 Hours   | 24 Hours | 200 per day per incident                                             |
| 43. | Any item/service not described penalty                                                                                                                                                                                            | Immediate | 24 Hours | 1,000 per day<br>As decided by university subject to nature of work. |

|     |                                                                       |          |         |                                                                      |
|-----|-----------------------------------------------------------------------|----------|---------|----------------------------------------------------------------------|
| 44. | Fiber Optic Backbone & Structured Cabling Faults                      | 2 Hours  | 6 Hours | 3,000 per day per incident                                           |
| 45. | New Installation / Shifting/reconfiguration Work assigned by ICT Cell | 12 Hours | 7 Days  | 1,000 per day<br>As decided by university subject to nature of work. |

- Non-submission of preventive maintenance reports, total complaint logged/resolved/pending complete statistic report, manpower biometric attendance report, leave reports, manpower replacement report, item sent for repair/return report, feedback report, standby stock of assets and accessories report, functional report of each category items covered under CAMC – **Bill will not be processed/accepted.**
- In case of poor performance, delay in service, non-resolution of complaints, or non-compliance of contractual obligations, the following penalty provisions shall be applicable:
  1. Penalty amount as decided by the University shall be deducted from the monthly CAMC bill payable to the vendor.
  2. In cases where services are partially affected, delayed, or not satisfactorily maintained, up to 50% of the monthly payment may be deducted from the monthly bill or as decided by University.
  3. In cases of severe service deficiency, prolonged downtime, failure of critical infrastructure, non-deployment of manpower, non-compliance of contract terms and conditions, or any act adversely affecting the overall services of the University, up to 100% deduction of the monthly bill may be imposed or as decided by Central University of Rajasthan.
  4. Any penalty clauses not mentioned in the tender shall be decided by the CURAJ will be applicable.
  5. If the vendor continuously fails to maintain services, resulting in adverse impact on the overall infrastructure and functioning of the University, and the issues are not resolved to the satisfaction of the University authorities, the University reserves the right to:
    - Terminate the contract without prior notice;
    - Forfeit the Performance Security Deposit;
    - Execute the work through alternate agency at the risk and cost of the vendor; and
    - Blacklist/debar the bidder from participating in future tenders of the University.

The decision of the Competent Authority of the University regarding service quality, severity of default, penalty amount, and blacklisting shall be final and binding on the vendor.

**Memorandum**

| <b>S.No.</b> | <b>Description</b>                  | <b>Values/ Description to be Applicable for Relevant Clause(s)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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; 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 at Central University of Rajasthan. |
| 2            | Estimated Cost                      | Rs. 13,87,67,210.00 (The yearly wages/salary of manpower as per Sub Heads XIV - Hiring Manpower through agency, Rs. 3.00 Cr. has been included in the estimated cost put to the tender)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3            | Earnest Money Deposit               | The bidder shall be required to submit the Earnest Money Deposit (EMD) for an amount of Rs 27,76,000/- in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Commercial Banks only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 4            | <b>Period of execution contract</b> | The duration of contract will be 01 years from the date of start of work of signing of MoU, whichever is earlier, extendable further for a 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 5            | Mobilization Advance                | Nil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6            | Validity of Bid                     | 180 days                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7            | Performance Bank Guarantee          | 5% (Five Percent Only) of contract value within 15 days from the date of award of LoA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 8            | 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 (Civil, Electrical & Mechanical, Horticulture, HVAC, Lift, Fire Fighting Systems, STP, RO, Housekeeping, IT Works, Manpower, etc.) 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 General Conditions of Contract carefully. I/We have downloaded the documents forming part of the tender document.
- 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 30 min. 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 with technical bid)**

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)

**SH – A: Supply of Civil Maintenance Consumable (non DSR) 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:                                                                          | 10  | Each |      |        |

|    |                                                            |    |      |  |  |
|----|------------------------------------------------------------|----|------|--|--|
|    | Ashirwad, Astral, Finolex                                  |    |      |  |  |
| 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 |  |  |

|     |                                                            |    |      |  |  |
|-----|------------------------------------------------------------|----|------|--|--|
|     | Finolex                                                    |    |      |  |  |
| 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 (Make: Jaugar, Modle No: OHS-CHR-1759)              | 5   | each   |  |  |
| 259                                             | Bottel Trap (Make: Jaugar, Modle No: ALD-CHR-769)          | 10  | each   |  |  |
| 260                                             | Wall Hung With Jet (Make: Jaugar, Modle No: SLS-WHT-6951J) | 2   | each   |  |  |
| 261                                             | Wall Hung (Make: Jaugar, Modle No: SLS-WHM-6953)           | 2   | each   |  |  |
| 262                                             | Two Way Bib Cock (Make: Jaugar, Modle No: VGP-CHR-81041)   | 5   | each   |  |  |
| 263                                             | Health Faucest (Make: Jaugar, Modle No: ALD-CHR-573)       | 10  | each   |  |  |
| 264                                             | Two Way Angle Value (Make: Jaugar, Modle No: 526A)         | 10  | each   |  |  |
| 265                                             | Angle Value (Make: Jaugar, Modle No: ARI-CHR-39053)        | 10  | each   |  |  |
| 266                                             | Sink Mixer (Make: Jaugar, Modle No: VGP-CHR-81165)         | 5   | each   |  |  |
| 267                                             | Towel Ring (Make: Jaugar, Modle No: KUP-CHR-35721)         | 5   | each   |  |  |
| <b>Total Amount including GST etc. (in Rs.)</b> |                                                            |     |        |  |  |

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

| <b>S.NO.</b> | <b>Description of Item</b>                                                                                                                                                                                             | <b>Unit</b> | <b>Percentage (%)<br/>below/above</b> |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------|
| 1            | CPWD DSR (Civil Works) 2023/<br>BASIC RATE OF MATERIAL.<br>The bidder has to quote the rates “above / below / at<br>par” on DSR (civil works) 2023 rates including all<br>considering estimated cost of Rs. 5,00,000/- | <b>L.S.</b> |                                       |

**SH - 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 University.                                                                                                                                                        |      |       |      |        |
| 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                                                                                                                                                                                                                                                                                                                                                                                            | 200  | cum   |      |        |

|      |                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |  |  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--|--|
|      | (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.                                                                                                                                                                                                  |      |      |  |  |
| 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, alvanize 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                                                                                                                                                                                                                                               |    |     |  |  |

|          |                                                                                                                                                                                                                                                                  |     |       |  |  |
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| 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 alvaniz 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 alvaniz 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 alvaniz 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                                                                                                                                                                                                                         | 10  | each  |  |  |

|      |                                                                                                                                                                             |     |      |  |  |
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|      | galvaniz M.S. pull bolt lock conforming to IS : 7534 with necessary screws bolts, nut and washers etc. complete.                                                            |     |      |  |  |
| 34   | Providing and fixing ISI marked galvaniz 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 galvaniz 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                      |     |      |  |  |

|      |                                                                                                                                                                                                                                                                                                                           |    |      |  |  |
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|      | 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 galvaniz (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, galvaniz (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, galvaniz (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, galvaniz (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with                                                                                                                        |    |      |  |  |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |         |  |  |
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|      | 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 galvaniz (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) alvani 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 University. | 10  | sqm     |  |  |

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| 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 University.                                                                                |     |         |  |  |
| 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 University. | 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     |  |  |

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| 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 University, 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 University.                                                                                                                                                |    |     |  |  |

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| 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 University. |     |     |  |  |
| 66.1 | 18 mm thick Italian Marble stone slab, Perlato, Rosso galvan, Fire Red or Dark Emperadore etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 50  | sqm |  |  |
| 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 University.                               |     |     |  |  |
| 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 University, 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                                                                                                                                                       | 100 | sqm |  |  |

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|      | white cement and matching pigments etc., complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |       |  |  |
| 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 University.                                                                                                                                                                                                                                                                                                                                                                                                                                |     |       |  |  |
| 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 galvanized iron profile sheets (size, shape and pitch of corrugation as approved by University) 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 University. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch | 50  | sqm   |  |  |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |     |  |  |
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|      | in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |     |  |  |
| 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 alvanized 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 University. |    |     |  |  |
| 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),                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 50 | sqm |  |  |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |       |  |  |
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|      | including factory painted after bending.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |       |  |  |
| 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                                                                                                                                                                                                                                                                                                                      |      |       |  |  |

|      |                                                                                                                                                                                    |      |       |  |  |
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|      | 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:            |      |       |  |  |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |     |  |  |
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| 94.1 | <p>1.The surface to be polished is rubbed with sand paper 80/120 no. and then with sand paper of 160/180 nos.</p> <p>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.</p> <p>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.</p> <p>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 University. (Final coat to be done in 1 or 2 layers without gap of time.)</p> | 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 University.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |     |  |  |
| 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 University.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |     |  |  |

|       |                                                                                                                                                                                                                                                                                                                  |    |       |  |  |
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| 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 University. |    |       |  |  |
| 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,                                                                       | 10 | each  |  |  |

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|     | plastering and painting the exposed portion of the clamps complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |            |  |  |
| 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 priming coat of ready mixed zinc chromate yellow primer of approved brand.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 200  | metre      |  |  |
| 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 alvani, 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 University .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 University.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1000 | sqm        |  |  |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |       |  |  |
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| 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 University. (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) | 9532<br>00 | 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 University.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 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 University. The cleaning shall consist following operations:-<br>(i) Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits.<br>(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 University.                                                                                                              | 6910       | sqm   |  |  |

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| 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 University.                                                                                                                                                                                                                                                                                                                                                                                                                                             | 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 University.                                                                                                                                                                                                                                                                                                                                                                                                                 | 5   | each  |  |  |
| 122   | Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of University.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5   | each  |  |  |
| 123   | Hacking of CC flooring including cleaning for surface etc. complete as per direction of the University.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 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 University.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 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 University.                                                                                                                                                                                                                                                                                                                                                                                 | 10  | each  |  |  |
| 126   | Providing and laying in situ seven course water proofing treatment with APP (Atactic polypropylene) 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 | 50  | sqm   |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |             |  |  |
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|       | 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). |      |             |  |  |
| 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 University.                                                                                                                                                                                                                                                            |      |             |  |  |
| 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<br>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 University :                                                                                                                                                                                                                                   |      |             |  |  |
| 132.1 | 15 mm to 40 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                       | 50   | metre       |  |  |
| 132.2 | Above 40 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                          | 50   | metre       |  |  |

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| 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 useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of University.            | 20  | each  |  |  |
| 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 University. | 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 University.                                                                                 | 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 University, 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 University, i/c cleaning the surface of ail dirt, scales, oil, grease and other foreign material                                                       |     |       |  |  |

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|       | 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   | Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretrite ) 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) degress 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 University. | 50 | each |  |  |
| 146   | 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 University, 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 & nuts @ 300 mm centre to centre all along the periphery as well as in two vertical                                                                                             |    |      |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |       |  |  |
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|       | 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 University.(Structural frame work including M.S. plate to be provided separately. Rectangular area of the sheet only shall be measured for payment). |     |       |  |  |
| 146.1 | Overhead informatory road signage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20  | sqm   |  |  |
| 147   | 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 University (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by University).               | 10  | cum   |  |  |
| 148   | 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 payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of University.                                                                                                                                                                                                                                                                           | 50  | metre |  |  |
| 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 University.                                                                                                                                                                                                                                                                      | 100 | sqm   |  |  |
| 150   | Laying old cement alvaniz 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 University. (Old CC paver blocks shall be supplied by the department free of cost).                                                                                                                                                                                                                     | 100 | sqm   |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |       |  |  |
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| 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 University. (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 University.                                                                                                                       | 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 University. |    |       |  |  |
| 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                                                                                                                                                                                                                           | 50 | sqm   |  |  |

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|       | 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 University. |     |      |  |  |
| 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 University.                                                                                         | 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 University.(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 :                                                                              |     |      |  |  |

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| 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  |  |  |

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| 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 |  |  |

|       |                                                                                                                                                                       |    |       |  |  |
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| 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  |  |  |

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| 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  |  |  |

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| 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. | 2000<br>0 | 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 University.                                                                                                                                             | 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 alvaniz 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 University. |     |          |  |  |
| 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 University . (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 University.(DSR-2023)<br>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 University.<br>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 University.<br>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 University.(Excluding lock)<br>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,                                                                                                                                                                                                                                                                                                                                                                                              | 100 | kg   |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |      |  |  |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--|--|
|       | rust free, straight, mitred and jointed mechanically, stainless steel screws, all complete as per the directions of University. (minimum thickness of powder coating 50 micron). Note: Old material will be the property of the Contractor.                                                                                                                                                                                                                                                                             |     |      |  |  |
| 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 University. 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 University. |     |      |  |  |
| 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 University 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 University 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 | <p>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:</p> <p>(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.</p> <p>(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.</p> <p>The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.</p>                                                                                                                                                                                                                                                                                                                                                 | 50 | sqm  |  |  |
| 216 | <p>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 &amp; 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 University.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 50 | each |  |  |
| 217 | <p>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 <math>\geq 85\%</math>, Thermal Conductivity <math>k = 0.052 - 0.057</math> w/m K, Fire Performance as per (BS 476 pt - 6 &amp; 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 (galvanized@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</p> |    |      |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |     |  |  |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|--|--|
|       | 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 University. |     |     |  |  |
| 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 University 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 |  |  |
|       | <b>Sub Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |     |  |  |

**SH – D: Supply of Electrical Consumable Items at CURAJ.**

| S.NO. | Description of Item                                                                                                                                                                                                                       | Unit  | Percentage (%) below / above |                |                 |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------|----------------|-----------------|
| 1     | Supply of CPWD DSR (E&M)-2025 Items, FOR-CURaj, APPENDIX II - Basic Rates of Materials. The bidder has to quote the rates 'above / below / at par' on DSR (E&M)-2025 rates (including all) considering estimated cost of Rs. 10,00,000/-. | L.S.  |                              |                |                 |
| S.NO. | Description of Item                                                                                                                                                                                                                       | Unit  | Qty.                         | Rate incl. GST | Amount (in Rs.) |
| 2     | 2.5 sq mm, three core, FRLS PVC sheathed, workshop flexible copper cable                                                                                                                                                                  | meter | 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 | 500                          |                |                 |
| 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 | 60                           |                |                 |
| 8     | 25 mm dia. ISI marked, flexible PVC conduit                                                                                                                                                                                               | metre | 60                           |                |                 |
| 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  | 5                            |                |                 |
| 11    | 16 A, three pin plug top as per IS.                                                                                                                                                                                                       | each  | 30                           |                |                 |
| 12    | 06 A, three pin plug top as per IS.                                                                                                                                                                                                       | each  | 30                           |                |                 |
| 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  | 800                          |                |                 |
| 16    | 4.0 mfd, 230V, 50 Hz, capacitor as per IS.                                                                                                                                                                                                | each  | 20                           |                |                 |
| 19    | 4" pvc electric round sheet                                                                                                                                                                                                               | each  | 300                          |                |                 |
| 20    | 10-12 W, 02 pin, 230 V, 50 Hz LED PL.                                                                                                                                                                                                     | each  | 50                           |                |                 |
| 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   | <u>Rollar</u> of Stepped type Modular Fan regulator (2 module); Make & Model: Legrand, mylinc (100 pcs) and Legrand, arteor (400 pcs).                                                                                                   | each | 200  |  |  |
| 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                                                                                                                                                                                                        | each | 20   |  |  |

|      |                                                                                                                                                                                                                                        |      |    |  |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|--|--|
|      | 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.                                   |      |    |  |  |
| 41.2 | Input Voltage=100-277 V AC, Input Current=0.8 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output 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. | each | 10 |  |  |
| 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                                                                                                                                                                                                      | each | 25 |  |  |

|       |                                                                                                                                                                                                                                                                                                                                                                              |      |    |  |  |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|--|--|
|       | 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.                                                                                                                                                                                                                              |      |    |  |  |
| 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 |  |  |
| 42.00 | Repairing of faulty Window/Split/Tower/Duct type Air- conditioning units installed in various buildings of CURaj including labour, machinery, spare parts (compressor/odu fan motor/pcb etc. as reqd on site), consumables, tools & plants etc. complete in all respects, as per standard practice and directions of EIC before starting the CAMC of these faulty equipment. |      |    |  |  |
| 42.01 | Window/Split ACs upto 2.0 TR capacity.                                                                                                                                                                                                                                                                                                                                       | Each | 60 |  |  |
| 42.02 | Tower/Ductable ACs 3.5 TR to 5.5 TR capacity.                                                                                                                                                                                                                                                                                                                                | each | 30 |  |  |
|       | <b>Sub Total Amount incl. GST (in Rs.)</b>                                                                                                                                                                                                                                                                                                                                   |      |    |  |  |

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**SH – E: Supply of items for Horticulture Development work at new site in CURAJ.**

| <b>S / N</b> | <b>Description of Item</b>                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Unit</b> | <b>Percentage (%)<br/>below/above</b> |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------|
| 1            | CPWD DSR (Horticulture Works) 2025/<br>The bidder has to quote the rates “above / below / at par” on DSR (Horticulture works) 2025 rates including all considering estimated cost of Rs. 5,00,000/-<br>The quoted percentage shall be uniformly applicable on all items of CPWD DSR (Horticulture Works) 2025 and the same percentage rate quoted by the bidder shall apply to every DSR item executed under the contract. | <b>L.S.</b> |                                       |

**SH –F: Supply of items for IT works**

| <b>Sr. No.</b> | <b>Item</b>                                                                | <b>Unit</b> | <b>Price per unit</b> | <b>Price with Tax</b> |
|----------------|----------------------------------------------------------------------------|-------------|-----------------------|-----------------------|
| 1.             | Layer-2 Managed Switches – 48 Port                                         | Nos.        |                       |                       |
| 2.             | Layer-2 Managed Switches – 24 Port                                         | Nos.        |                       |                       |
| 3.             | Layer-2 Managed Switches with PoE – 48 Port                                | Nos.        |                       |                       |
| 4.             | Layer-2 Managed Switches with PoE – 24 Port                                | Nos.        |                       |                       |
| 5.             | Layer-3 Managed Switches with PoE– 48 Port                                 | Nos.        |                       |                       |
| 6.             | Layer-3 Managed Switches with PoE– 24 Port                                 | Nos.        |                       |                       |
| 7.             | Unmanaged Switches – 24 Port                                               | Nos.        |                       |                       |
| 8.             | Unmanaged Switches – 16 Port                                               | Nos.        |                       |                       |
| 9.             | Unmanaged Switches – 8 Port                                                | Nos.        |                       |                       |
| 10.            | Wireless Router Gigabit – 4 Antenna                                        | Nos.        |                       |                       |
| 11.            | Industrial/PoE Switches 8 Port with SFP port                               | Nos.        |                       |                       |
| 12.            | Industrial/PoE Switches 16 Port with SFP port                              | Nos.        |                       |                       |
| 13.            | IP Phone with power adaptor                                                | Nos.        |                       |                       |
| 14.            | SFP Module                                                                 | Nos.        |                       |                       |
| 15.            | SFP+ Module                                                                |             |                       |                       |
| 16.            | CAT-6 LAN Cables Box (305 Meter)                                           | Nos.        |                       |                       |
| 17.            | OFC (Optical Fiber Cable) – Single Mode 6 Core                             | Meter       |                       |                       |
| 18.            | OFC (Optical Fiber Cable) – Single Mode 12 Core                            | Meter       |                       |                       |
| 19.            | Fiber Pigtaills LC 5 Meter                                                 | Nos.        |                       |                       |
| 20.            | Fiber Patch Cords LC-LC 2 Meter                                            | Nos.        |                       |                       |
| 21.            | Fiber Patch Cords LC-LC 5 Meter                                            | Nos.        |                       |                       |
| 22.            | Fiber Patch Cords LC-LC 10 Meter                                           | Nos.        |                       |                       |
| 23.            | Fiber Joint Closures                                                       | Nos.        |                       |                       |
| 24.            | Fiber Per Core Splicing                                                    | Job         |                       |                       |
| 25.            | RJ-45 Connectors (Box of 100 nos.)                                         | Nos.        |                       |                       |
| 26.            | Face Plates and Information Outlets with Keystone Jacks                    | Nos.        |                       |                       |
| 27.            | Patch Panels 24 Port                                                       | Nos.        |                       |                       |
| 28.            | Patch Panels 48 Port                                                       | Nos.        |                       |                       |
| 29.            | UTP Patch cord 1 Meter                                                     | Nos.        |                       |                       |
| 30.            | UTP Patch cord 2 Meter                                                     | Nos.        |                       |                       |
| 31.            | Cable Manager                                                              | Nos.        |                       |                       |
| 32.            | PVC Casing/Capping and Conduits related to network cabling/laying job work | Meter       |                       |                       |
| 33.            | Flexible Pipes 1inch                                                       | Meter       |                       |                       |
| 34.            | Network Racks with PDU (Wall Mount) 9U                                     | Nos.        |                       |                       |
| 35.            | Network Racks with PDU (Wall Mount) 12U                                    | Nos.        |                       |                       |
| 36.            | Network Racks with PDU (Wall Mount) 15U                                    | Nos.        |                       |                       |
| 37.            | LIU (Light Interface Units) 12 Core Loaded                                 | Nos.        |                       |                       |
| 38.            | Cable Tags                                                                 | Nos.        |                       |                       |
| 39.            | Velcro straps                                                              | Nos.        |                       |                       |
| 40.            | Fiber Junction Box                                                         | Nos.        |                       |                       |
| 41.            | Power Cord 2 Meter 6A                                                      | Nos.        |                       |                       |
| 42.            | Power Adapters (Laptop)                                                    | Nos.        |                       |                       |

|     |                                                                     |       |  |  |
|-----|---------------------------------------------------------------------|-------|--|--|
| 43. | Power Adapter (Biometric)                                           | Nos.  |  |  |
| 44. | SMPS                                                                | Nos.  |  |  |
| 45. | VGA Cable                                                           | Nos.  |  |  |
| 46. | HDMI 4K Cable 10 Meter                                              | Nos.  |  |  |
| 47. | LED Monitor 19"                                                     | Nos.  |  |  |
| 48. | LED Monitor 21"                                                     | Nos.  |  |  |
| 49. | USB Cables 2 mtrs.                                                  | Nos.  |  |  |
| 50. | USB Extender 10 Mtr.                                                | Nos.  |  |  |
| 51. | USB Hubs 4 Ports                                                    | Nos.  |  |  |
| 52. | USB-to-LAN Adapter                                                  | Nos.  |  |  |
| 53. | Type-C Adapters/Converter                                           | Nos.  |  |  |
| 54. | SATA Cable                                                          | Nos.  |  |  |
| 55. | SATA Power Connector                                                | Nos.  |  |  |
| 56. | HDD/SSD Mounting Bracket                                            | Nos.  |  |  |
| 57. | Network Interface Cards (NIC)                                       | Nos.  |  |  |
| 58. | PCIe Wi-Fi card with latest generation                              | Nos.  |  |  |
| 59. | VGA Cables 2 Mtrs                                                   | Nos.  |  |  |
| 60. | AUX Cable (Jack to 3.5mm) 3 Meter                                   | Nos.  |  |  |
| 61. | Microphone Cable (XLR Male to XLR Female)                           | Meter |  |  |
| 62. | Speaker Cables (XLR Male to XLR Female)                             | Meter |  |  |
| 63. | VGA to HDMI Converter                                               | Nos.  |  |  |
| 64. | HDMI to VGA Converter                                               | Nos.  |  |  |
| 65. | HDMI Splitter 1 In – 4 Out                                          | Nos.  |  |  |
| 66. | Printer USB Cables 2 mtrs                                           | Nos.  |  |  |
| 67. | Printer Power Cords 2 mtrs                                          | Nos.  |  |  |
| 68. | Scanner Cables 2 mtrs                                               | Nos.  |  |  |
| 69. | USB Keyboard                                                        | Nos.  |  |  |
| 70. | USB Mouse                                                           | Nos.  |  |  |
| 71. | Wireless Keyboard                                                   | Nos.  |  |  |
| 72. | Wireless Mouse                                                      | Nos.  |  |  |
| 73. | Wireless Keyboard/Mouse set                                         | Nos.  |  |  |
| 74. | Webcam with microphone up to 3 MP/HD                                | Nos.  |  |  |
| 75. | Desktop Speaker                                                     | Nos.  |  |  |
| 76. | CPU Cooling Fan                                                     | Nos.  |  |  |
| 77. | Cabinet Fan                                                         | Nos.  |  |  |
| 78. | Heat Sink                                                           | Nos.  |  |  |
| 79. | CMOS Battery for Desktop                                            | Nos.  |  |  |
| 80. | CMOS Battery for Biometric Machine                                  | Nos.  |  |  |
| 81. | Power Adaptor for Zebra ZXP series 3                                | Nos.  |  |  |
| 82. | CCTV IP Camera 5MP (Dome) with 50 mtr IR or higher STQC Certified   | Nos.  |  |  |
| 83. | CCTV IP Camera 5MP (Bullet) with 50 mtr IR or higher STQC Certified | Nos.  |  |  |
| 84. | Tray for NVR/DVR                                                    | Nos.  |  |  |
| 85. | Junction Box for Camera (Indoor)                                    | Nos.  |  |  |
| 86. | Junction Box for Camera (Outdoor)                                   | Nos.  |  |  |
| 87. | DVR 16 channel                                                      | Nos.  |  |  |
| 88. | DVR 8 channel                                                       | Nos.  |  |  |
| 89. | NVR 32 channel                                                      | Nos.  |  |  |
| 90. | NVR 16 channel                                                      | Nos.  |  |  |
| 91. | NVR 8 channel                                                       | Nos.  |  |  |
| 92. | NVR 4 channel                                                       | Nos.  |  |  |

|      |                                                                                         |      |  |  |
|------|-----------------------------------------------------------------------------------------|------|--|--|
| 93.  | Surveillance HDD/Storage 1 TB                                                           | Nos. |  |  |
| 94.  | Surveillance HDD/Storage 2 TB                                                           | Nos. |  |  |
| 95.  | Surveillance HDD/Storage 4 TB                                                           | Nos. |  |  |
| 96.  | Surveillance HDD/Storage 8 TB                                                           | Nos. |  |  |
| 97.  | Surveillance HDD/Storage 10 TB                                                          | Nos. |  |  |
| 98.  | Surveillance HDD/Storage 20 TB                                                          | Nos. |  |  |
| 99.  | SMPS/Power Supply Units                                                                 | Nos. |  |  |
| 100. | NVR Power Adapter                                                                       | Nos. |  |  |
| 101. | DVR Power Adapter                                                                       | Nos. |  |  |
| 102. | SATA SSD 256 GB                                                                         | Nos. |  |  |
| 103. | SATA SSD 500GB                                                                          | Nos. |  |  |
| 104. | SATA SSD 1TB                                                                            | Nos. |  |  |
| 105. | NVMe SSD 256 GB                                                                         | Nos. |  |  |
| 106. | NVMe SSD 500GB                                                                          | Nos. |  |  |
| 107. | NVMe SSD 1TB                                                                            | Nos. |  |  |
| 108. | RAM 4 GB DDR3 module                                                                    | Nos. |  |  |
| 109. | RAM 8 GB DDR3 module                                                                    | Nos. |  |  |
| 110. | RAM 16 GB DDR3 module                                                                   | Nos. |  |  |
| 111. | RAM 4 GB DDR4 module                                                                    | Nos. |  |  |
| 112. | RAM 8 GB DDR4 module                                                                    | Nos. |  |  |
| 113. | RAM 16 GB DDR4 module                                                                   | Nos. |  |  |
| 114. | Type C Docking Station 10 in 1                                                          | Nos. |  |  |
| 115. | UPS 1 KVA Offline                                                                       | Nos. |  |  |
| 116. | UPS 600 VA Offline                                                                      | Nos. |  |  |
| 117. | UPS Battery12V 7AH                                                                      | Nos. |  |  |
| 118. | <b>Common Major Assemblies / Units of Heavy Duty Multifunction Photocopier Machines</b> |      |  |  |
| 119. | Drum Unit / Drum Assembly                                                               | Nos. |  |  |
| 120. | Developer Unit                                                                          | Nos. |  |  |
| 121. | Fuser Assembly / Fixing Unit                                                            | Nos. |  |  |
| 122. | Transfer Belt Assembly (ITB Unit)                                                       | Nos. |  |  |
| 123. | Laser Scanner Unit (LSU)                                                                | Nos. |  |  |
| 124. | Scanner Assembly                                                                        | Nos. |  |  |
| 125. | Automatic Document Feeder (ADF/RADF/DADF)                                               | Nos. |  |  |
| 126. | Duplex Unit                                                                             | Nos. |  |  |
| 127. | Power Supply Unit (SMPS/High Voltage PSU)                                               | Nos. |  |  |
| 128. | Main Controller Board / Formatter Board                                                 | Nos. |  |  |
| 129. | Image Processing Board                                                                  | Nos. |  |  |
| 130. | Operation Panel / Touch Display Unit                                                    | Nos. |  |  |
| 131. | Toner Hopper Assembly                                                                   | Nos. |  |  |
| 132. | Paper Feed Assembly                                                                     | Nos. |  |  |
| 133. | Registration Assembly                                                                   | Nos. |  |  |
| 134. | Exit Assembly                                                                           | Nos. |  |  |
| 135. | Gear Drive Assembly                                                                     | Nos. |  |  |
| 136. | Waste Toner Collection Unit                                                             | Nos. |  |  |
| 137. | Finisher / Stapler Unit                                                                 | Nos. |  |  |
| 138. | Network Interface Card                                                                  | Nos. |  |  |

|      |                                                                                          |      |  |  |
|------|------------------------------------------------------------------------------------------|------|--|--|
| 139. | <b>Common Minor Parts / Consumables of Heavy Duty Multifunction Photocopier Machines</b> |      |  |  |
| 140. | OPC Drum                                                                                 | Nos. |  |  |
| 141. | Drum Cleaning Blade                                                                      | Nos. |  |  |
| 142. | Developer Powder                                                                         | Nos. |  |  |
| 143. | Primary Charge Roller (PCR)                                                              | Nos. |  |  |
| 144. | Magnetic Roller                                                                          | Nos. |  |  |
| 145. | Transfer Roller                                                                          | Nos. |  |  |
| 146. | Upper Fuser Roller                                                                       | Nos. |  |  |
| 147. | Lower Pressure Roller                                                                    | Nos. |  |  |
| 148. | Fuser Film Sleeve                                                                        | Nos. |  |  |
| 149. | Thermistor                                                                               | Nos. |  |  |
| 150. | Thermostat                                                                               | Nos. |  |  |
| 151. | Pickup Roller                                                                            | Nos. |  |  |
| 152. | Feed Roller                                                                              | Nos. |  |  |
| 153. | Separation Pad                                                                           | Nos. |  |  |
| 154. | Registration Roller                                                                      | Nos. |  |  |
| 155. | Exit Roller                                                                              | Nos. |  |  |
| 156. | ADF Roller Kit                                                                           | Nos. |  |  |
| 157. | Separation Roller                                                                        | Nos. |  |  |
| 158. | Toner Cartridge                                                                          | Nos. |  |  |
| 159. | Waste Toner Bottle                                                                       | Nos. |  |  |
| 160. | Bearings & Bushes                                                                        | Nos. |  |  |
| 161. | Drive Gears                                                                              | Nos. |  |  |
| 162. | Solenoids                                                                                | Nos. |  |  |
| 163. | Sensors (Paper/Temperature/Open Cover)                                                   | Nos. |  |  |
| 164. | Cooling Fan                                                                              | Nos. |  |  |
| 165. | Belts & Couplings                                                                        | Nos. |  |  |
| 166. | Springs & Clips                                                                          | Nos. |  |  |
| 167. | Lamp/LED Exposure Unit                                                                   | Nos. |  |  |
| 168. | Flat Cable / Interface Cable                                                             | Nos. |  |  |
| 169. | HDD/SSD/Memory Module                                                                    | Nos. |  |  |

**SH – G: Refilling and HPT of Portable Type Fire Extinguishers.**

| S/N | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Qty. | Unit | Rate | Amount |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|--------|
| 1   | Hydraulic Pressure Testing of following type of Fire Extinguishers conformity with the procedure and period laid down in IS 2190:2010 and as amended time to time by BIS.                                                                                                                                                                                                                                                                                                                                                    |      |      |      |        |
| 1.1 | Portable Carbon dioxide Type Fire Extinguisher, Capacity 4.5 Litre                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100  | Each |      |        |
| 1.2 | Portable ABC Dry Chemical Powder Fire Extinguisher, Capacity- 5-6 Kg                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50   | Each |      |        |
| 2   | Refilling of following type of Fire Extinguishers conformity with the procedure and period laid down in IS 2190:2010 and as amended time to time by BIS with 03 years validity. This also includes replacement of defective spare parts like nozzle, safety clip, rings, washer, plunger, metal cap, gas cartridge, pressure gauge/horn, discharge hosepipe, squeeze grip value, lock guard or pin, control/brass/SS value etc. as required at the time of re-filling complete in all respects and directions of University. |      |      |      |        |
| 2.1 | Portable Carbon dioxide Type Fire Extinguisher, Capacity 4.5 Litre                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100  | Each |      |        |
| 2.2 | Portable ABC Dry Chemical Powder Fire Extinguisher, Capacity- 5-6 Kg                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50   | Each |      |        |
| 3   | Painting (at least two coats or as required) on all types of Portable Fire Extinguishers as per Color code including removal and cleaning of old paint, labelling with all details of fire extinguisher etc. as required complete in all respects. Further all as per standard practice and directions of University. (Capacity - 4 to 10 kg).                                                                                                                                                                               | 150  | Job  |      |        |
|     | <b>Total Amount</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |      |      |        |

**SH – H: Supply and Installation (under buy back) of Reverse Osmosis Plant**

| <b>S/N</b> | <b>Description</b>                                                                                                                                                                                                                                                                               | <b>Qty</b> | <b>Unit</b> | <b>Rate</b> | <b>Amount</b> |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-------------|---------------|
| 01         | Supply and Installation (under buy back) of Reverse Osmosis Plant of 50 LPH Capacity Make Eureka Forbes<br><br>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      | Each        |             |               |
|            | <b>Total Amount incl. all taxes. (in Rs.)</b>                                                                                                                                                                                                                                                    |            |             |             |               |

**Sample Monitoring Performa for Housekeeping Services.  
Separate Performa(s) will be used for respective services.**

**Building Inspected:**

**Inspection Date & Time:**

**Scoring Legend**

- **5:** Spotless, no visible dirt/stains, smells fresh, etc.
- **4:** Generally clean, minor dust or water spots, etc.
- **3:** Visible dust/stains, requires immediate attention, etc.
- **2:** Accumulation of dirt/waste, strong odor, or neglect, etc.
- **1:** Unsanitary conditions, safety hazard, or completely missed, etc.

**Part A: High-Frequency Areas (Daily & 3-Day)**

| S. No.    | Activity Description                                | Score (1-5) | Specific Observations / Bottlenecks |
|-----------|-----------------------------------------------------|-------------|-------------------------------------|
| 1.        | All Washrooms<br>(Toilets, PWD, Basins, Bins, etc.) |             |                                     |
| 2.        | Common Floors<br>(Offices, Labs, Gallery, Stairs)   |             |                                     |
| 3.        | Water Cooler Surroundings                           |             |                                     |
| 4.        | Building Perimeter<br>(Front/Back/Side up to 50ft)  |             |                                     |
| 5.        | Hand-Railing and Iron Grills                        |             |                                     |
| <b>A.</b> | <b>Category Sub-Total</b>                           | <b>/25</b>  |                                     |

**Part B: Periodic Maintenance (Weekly, Fortnightly, Monthly)**

| S. No.    | Activity Description                        | Score (1-5) | Specific Observations / Bottlenecks |
|-----------|---------------------------------------------|-------------|-------------------------------------|
| 6.        | Windows, Cobwebs, Jaalis, Mumty, Ceilings   |             |                                     |
| 7.        | Machine Deep Cleaning of Floors             |             |                                     |
| 8.        | Removal of Bird Excreta from Walls/Tiles    |             |                                     |
| 9.        | Exterior Window Platform (Outside)          |             |                                     |
| 10.       | Exterior Glazing (Glass)                    |             |                                     |
| 11.       | Dusting of Fans, Tubelights, False Ceilings |             |                                     |
| 12.       | Exterior Sandstone Jaali                    |             |                                     |
| 13.       | Roof/Terrace Cleaning, Weed & Soil Removal  |             |                                     |
| <b>B.</b> | <b>Category Sub-Total</b>                   | <b>/40</b>  | <b>-</b>                            |

**Part C: Quarterly & Scheduled Services**

| S. No.    | Activity Description               | Score (1-5) | Specific Observations / Bottlenecks |
|-----------|------------------------------------|-------------|-------------------------------------|
| 14.       | Cleaning of Shafts and Other Areas |             |                                     |
| 15.       | Any Other Activity                 |             |                                     |
| <b>C.</b> | <b>Category Sub-Total</b>          | <b>/5</b>   | <b>-</b>                            |

**Monitoring Summary:**

- **Total Score Obtained:** ...../70
- **Cleanliness Percentage:**..... %

- **Remarks:**

**Dr.**

**Name & Signature of the Committee Member**

Note: Geo-tagged photos of various areas may be included with this report. (shared)

| S.No. | Housekeeping-Activities                                                                                                                                                                         |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.    | All Washrooms of the building (including Bathrooms, toilets, PWD Toilets , Wash Basin, Urinal, Bottle Traps, Commode, Mirror, Waste bins Taps, Glass, Tiles, Window, Door, Switch, Exhuast etc. |
| 2.    | Cleaning of floors, wall, ceiling, door windows, lift stair-case, etc.                                                                                                                          |
| 3.    | Cleaning of Water Cooler, surroundings, etc.                                                                                                                                                    |
| 4.    | Front, Back and Side area of all the Buildings (upto 50 ft.) including courtyard and porch area.                                                                                                |
| 5.    | Check for placement of dustbin with black bag in sufficient Number                                                                                                                              |
| 6.    | Hand-Railing and Iron Grill of all building, Window / Glass, etc.                                                                                                                               |
| 7.    | Cleaning of Windows, cob- webs, <i>Jaalis</i> , ceiling of all floors including <i>Mumty</i>                                                                                                    |
| 8.    | Clearing the birds excreta from the floor, walls, railing, grill.                                                                                                                               |
| 9.    | Exterior Window Platform cleaning from outside.                                                                                                                                                 |
| 10.   | Cleaning of exterior Glazing (glass) of all buildings.                                                                                                                                          |
| 11.   | Cleaning and dusting of Fans,Tubelight, False ceiling.                                                                                                                                          |
| 12.   | Exterior Sandstone <i>Jaali</i>                                                                                                                                                                 |
| 13.   | Roof and Terrace weed removal including cleaning of roof and deposited soil.                                                                                                                    |
| 14.   | Cleaning of the Shafts and other areas                                                                                                                                                          |

**To be signed by the bidder and same signatory competent / authorised to sign the relevant contract on behalf of Central University of Rajasthan**

INTEGRITY AGREEMENT This Integrity Agreement is made at ..... on this .....day of .....20.....

**BETWEEN**

Central University of Rajasthan through Registrar, Central University of Rajasthan, Bandersindri, Dist-Ajmer. (Hereinafter referred to as the 'Principal/Owner', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**AND**

..... (Name and Address of the Individual/firm/Company)  
Through ..... (Details of duly authorized signatory)  
Hereinafter referred to as the "Bidder/Contractor" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

**Preamble**

WHEREAS the Principal / Owner has floated the Tender (EoI No..... ) (hereinafter referred to as "Tender/Bid/EoI") and intends toward, under laid down organizational procedure, contract for ..... Here in after referred to the "Contract".  
AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

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

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

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

1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:

(a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

(b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

(c) The Principal/Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code(IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

## **Article 2: Commitment of the Bidder(s)/Contractor(s)**

1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the Negotiation or award of a contract.

2) The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:

a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.

b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or on-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.

3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.

5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

### **Article 3: Consequences of Breach**

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the Contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.

2) Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

3) Criminal Liability: If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

### **Article 4: Previous Transgression**

1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.

2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractors deemed fit by the Principal/ Owner.

3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

#### **Article 5: Equal Treatment of all Bidders/Contractors/Sub Contractors**

1) The Bidder(s)/Contractor(s) undertake(s) to demand from all sub-Contractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub- Contractors/sub-vendors.

2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.

3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

#### **Article 6- Duration of the Pact**

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded. If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority.

#### **Article 7- Other Provisions**

1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarters of the Division of the Principal/Owner, who has floated the Tender.

2) Changes and supplements need to be made in writing. Side agreements have not been made.

3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.

4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

#### **Article 8- LEGAL AND PRIOR RIGHTS**

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

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

.....

(For and on behalf of Principal/Owner)

.....

(For and on behalf of Bidder/Contractor)

WITNESSES:

1. .... (signature, name and address)

2. .... (signature, name and address)

Place: Dated :

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