

CENTRAL UNIVERSITY OF RAJASTHAN

FINANCIAL BID (Schedule of Works 01 to 12)

NIT No. - CURAJ/R/F.159/2024/1175

Date: 25.06.2024

Name of Work: Annual Repair, Maintenance & Operation of Electrical Works at Central University of Rajasthan.

SCHEDULE No- 01					
Name of Schedule: Non-Comprehensive Annual Operation of 04 Nos. 11/0.433 kV ESS, 05 Nos. DG Sets, Overhead & Underground HT/LT Electric Lines and 02 Nos. Pump Houses and Day to Day Electrical Maintenance of Various Buildings of Central University of Rajasthan.					
Item No.	Description of Item	Qty	Unit	Rate excl. GST	Amount (in Rs.)
1	<p>Non-Comprehensive Annual Operation of 04 Nos. 11/0.433 kV ESS, 05 Nos. DG Sets, Overhead & Underground HT/LT Electric Lines and 02 Nos. Pump Houses at CURaj Campus as per standard practice and directions of EIC.</p> <p>Brief description of work:</p> <ol style="list-style-type: none">1) 24*7 manning in shifts through Power House Operators at each 11/0.433 kV ESS including Sundays and Holidays to ensure operation of 04 Nos. ESS and 05 Nos. DG Sets (one 250 kVA make-KOEL, one 250 kVA make-Cummins, one 380 kVA make-Cummins and two 500 kVA make-Cummins) and Overhead & Underground HT/LT Electric Lines.2) Operation of motors & pumps and associated valves etc. twice in a day or as per requirement through Pump House Operators including Sundays and Holidays at both the Pump Houses.3) General maintenance of E&M equipments, identification of faults/breakdowns occurred at ESS, DG Sets, UG/OH Electric Lines and Pump Houses, rectification of faults/breakdowns (if minor in nature) and timely submission of reports to the University.4) Maintenance of records, log-books, duty roasters, muster rolls, breakdown reports etc.5) Liasoning with local authorities/bodies in case of foreign faults/breakdowns, shutdowns, DG Set fuel collection etc.6) Housekeeping of all 04 Nos. 11/0.433 kV ESS and 02 Nos. Pump Houses at CURaj Campus.	12	jobs/year		

2	Non-Comprehensive Annual Day to Day Electrical Maintenance on 24*7 basis including Sundays and Holidays through Wiremen and Khalasi of 60,000 plus electric light and power points, allied electrical fittings & fixtures, lights, fans, wiring, road lights, panels etc. installed in various buildings of the University Campus such as 08 nos. Hostels, 03 nos. Semi-Permanent Structures, Auditorium, Central Library, Barracks, Kendriya Vidyalaya, Mega Mess, Shopping Complex, Health Center, Indoor Gym, Central Stores, STP, 04 nos. Academic Buildings, Admin Building, CIL Lab, Guest House, VC Residence, Yoga	12	jobs/ year		
	Building, 120 nos. Staff Quarters, about 800 nos. Electric & Solar Road Lights, 05 nos. Electric Sub Stations, 02 nos. Pump Houses and other all types of Wells, all type of Sports Grounds & Fields etc. as per standard practice and directions of EIC.				
	Total Amount (Item No. 01 + Item No. 02)= A				
	Add GST 18% on (A)= B				
	Net Amount (A+B)= C				

Note:

- 1) The agency/contractor should quote the rates after visiting the site.
- 2) The agency/contractor shall depute the trained men power in respective fields in adequate quantity as per the site requirement along with Electrical Supervisor(s) having minimum 05 years working experience on 33 kV electric supply for overall supervision of electrical works and cost of all shall be borne by the agency/contractor.
- 3) The agency/contractor has to provide one mobile phone with a valid sim card to the Electrical Supervisor and one mobile phone with a valid sim card to on duty Wireman, to contact in case of any breakdown/emergency. The cost of same shall be borne by the agency/contractor.
- 4) All the deputed manpower shall work in the uniform duly prescribed by the University and cost of the same shall be borne by the agency/contractor.
- 5) Electrical maintenance material for the works under scheduled item no-02 and fuel for the operation of DG Sets shall be provided by the University free of cost as per the requirement.
- 6) The agency/contractor shall observe strictly all the directions/orders issued by the CLC (C), GOI and amended time to time in respect of deputed men power.
- 7) The quoted rates shall be inclusive of prevailing minimum statutory wages, ESI, PF and bonus etc. as per orders of the CLC (C), GOI and amended time to time throughout the contract.
- 8) The quoted rates shall also be inclusive of all local taxes, duties, tools & plants, consumables (like stationary for records, logbooks, insulation tapes, cotton cloths, nut-bolts, lugs of all types, anti-rust/corrosion sprays, housekeeping material, sundry etc. as per the requirement) labour, service/overhead charges etc.
- 9) Nothing in this regard shall be paid extra.

SCHEDULE No- 02

Name of Schedule: AMC of 04 Nos. 11/0.433 kV Electric Sub-Stations at CURaj.

Item No.	Description of Item	T/Qty	Unit	Rate excl. GST	Amount (in Rs.)
1	<p>General inspection and health check up of all the E&M Installations at 04 Nos. 11/0.433 kV Electric Sub-Stations at CURaj Campus on <u>quarterly basis</u> (minimum once in three months) by the service engineer (s) of OEM / ASA of OEM.</p> <p>This work also includes all minor repair works required on site and unlimited breakdown calls throughout the contract as per tender terms and conditions alongwith submission of reports as per standard practice and directions of EIC.</p> <p>Note: This work excludes all major repair works and replacement of any type of spare part/component.</p>	4	jobs		
2	Overhauling and complete servicing of HT VCB 11 KV including cleaning the contacts with CRC liquid, testing of closing/opening and tripping mechanism, charging circuits, testing control circuits, relays, fuses indicating lights, all measuring instruments and providing jelly on male/female contacts complete as required, as per standard practice and directions of Engineer-In-Charge.				
2.1	Each upto 800A Amp. Capacity	15	Nos		
2.2	Each 1250 Amp. Capacity	10	Nos		
3	Overhauling and complete servicing of LT ACB including cleaning the contacts with CRC liquid, testing of closing/opening and tripping mechanism, charging circuits, testing control circuits, relays, fuses indicating lights, all measuring instruments and providing jelly on male/female contacts complete as required, as per standard practice and directions of Engineer-In-Charge.				
3.1	Each upto 1000 Amp. Capacity	30	Nos		
3.2	Each upto 1001-2000 Amp. Capacity	40	Nos		
3.3	Each upto 2001-3200 Amp. Capacity	15	Nos		
4	Calibration and testing of Relay (feeder protection relay, master trip relay, trafo fault relay, O/V relay, Current Protection relay, E/F relay, APFC relay, etc.) on HT/LT panel as required, as per standard practice and directions of Engineer-In-Charge.	110	Job		
5	Calibration and testing of MF Meters i/c programming etc. as required, as per standard practice and directions of Engineer-In-Charge.	149	Nos		

6	Servicing of following panels including checking bus bar & connections tightening cleaning/removing dust with blower etc. as required, as per standard practice and directions of Engineer-In-Charge.				
6.1	L.T. panel	100	Job		
6.2	H.T. panel	25	Job		
6.3	APFC Panel	20	Job		
6.4	Battery Charging Panel	4	Job		
7	Maintenance of Earthing System based on IS standards including testing of earth pits, chemical/salt/charcoal filling, continuity test of earth strip/conductor from the earth pit to the earth terminal of electrical equipment, as reqd. on site, as per standard practice and directions of Engineer-In-Charge	40	Job		
8	Dehydration and filtration of insulation transformer oil of 11KV Transformers with filtration machine equipped with suitable heating system. attending leakages, testing of BDV, Megger inclusive of labour & transportation charges of equipment at site as reqd., as per standard practice and directions of Engineer-In-Charge.	10000	Litre		
9	Supplying & Top-up of dehydrated filtered transformer oil as per IS norms with minimum 50 KV BDV upto the required level of transformer and as reqd., as per standard practice and directions of Engineer-In-Charge.	400	Litre		
10	Replacement of worn out silica Gel with new silica gel for the breather of Transformer complete as required, as per standard practice and directions of Engineer-In-Charge.	9	Kg.		
	Total Amount excl. GST=A				
	Add GST @18% on A=B				
	Net Amount incl. GST in Rs. (A+B)=C				

Note: The AMC Work of 04 Nos. 11/0.433 kV ESS at CURaj shall only be carried out through OEM/Authorized Service Agents of OEM, being the specialized work(s) and for this purpose, the agency/contractor shall have to execute an MOU with OEM / Authorized Service Agent of OEM.

SCHEDULE No- 03**Name of Schedule: Annual Servicing and Repairing of 05 Nos. Diesel-Generator Sets Installed at Central University of Rajasthan.****PART-1: Servicing of DG Sets.**

Sr. No.	Item Description	Location	Qty	Unit	Rate excl. GST	Amount (in Rs.)
1	Servicing of below mentioned DG Sets complete with diesel engines, alternators, control panels along with associated accessories, which includes general checking/inspection of all DG Sets on quaterly basis, attending unlimited breakdown calls, minor repair works and preventive maintenance including all checks (B, C, D), replacement of filters, lub. oil, coolant etc. as recommended by respective OEM as per standard practice and directions of Engineer-in-Charge. Note: This work excludes all major repair works and replacement of any type of spare part/component.					
1.1	250 KVA DG Set Make – Kirloskar Model No. 6SL8800TA	ESS No.01	12	job		
1.2	250 KVA DG Set Make – Cummins Model No. 25775463	Auditorium	12	job		
1.3	380 KVA DG Set Make – Cummins Model No. 25398033	ESS No. 20.7	12	job		
1.4	500 KVA DG Set Make – Cummins Model No. 25417171	ESS No. 19.1	12	job		
1.5	500 KVA DG Set Make – Cummins Model No. 25416790	ESS No. 19.2	12	job		
	Total Amount excl. GST=A					
	Add GST @18% on A=B					
	Net Amount incl. GST in Rs. (A+B)=C					

PART-2 : Replacement of Spare Parts of DG Sets.			
Sr. No	Item Description	Tentative Amount (excl. GST)	Percentage Over / At Par / Below on OEM spare part latest rate list (To be filled by the Bidder)
1	Replacement of spare parts of following DG Sets including transportation, labour, installation, testing & commissioning charges complete in all respects as per standard practice and directions of Engineer-In-Charge. 250 KVA DG Set, Make – Kirloskar, Model No. 6SL8800TA 250 KVA DG Set, Make – Cummins, Model No. 25775463 380 KVA DG Set, Make – Cummins, Model No. 25398033 500 KVA DG Set. Make – Cummins, Model No. 25417171 500 KVA DG Set, Make – Cummins, Model No. 25416790	Rs. 2.00 Lacks	
Note: GST as applicable shall be paid separately for Part-2.			

PART-3 : Auction of used/waste DG Set lubricating oil.					
Sr. No.	Item Description	Qty	Unit	Rate excl. GST	Amount (in Rs.)
1	Used/waste lubricating oil	500	Litre		
Note: a) Rates quoted shall be inclusive all types of taxes, freight, loading & unloading charges. b) It shall be the responsibility of contractor/agency to dispose the collected lubricating oil with the vendors having permission of collection/disposal/recycle/storage of waste/used oil as per CPCB/SPCB/Water and Air (Prevention & Control of Pollution) Act.					
Net Amount (Part 1 + Part 2 - Part-3) in Rs.					

Note: The Annual Servicing and Repairing Work of 05 Nos. Diesel-Generator Sets Installed at CURaj shall only be carried out through OEM/Authorized Service Agents of OEM, being the specialized work(s) and for this purpose, the agency/contractor shall have to execute an MOU with OEM / Authorized Service Agent of OEM.

SCHEDULE No- 04

Name of Schedule: AMC of Underground and Overhead Electric Lines at CURaj.

S. No.	Description of Item	Qty	Unit	Rate excl. GST	Amount (in Rs.)
1	Detection of fault in underground electric Low Tension (LT)/High Tension (HT) cable incl. fault detection machine charges, digging & labour charges etc. complete in all respects as per standard practice.	40	job		
2	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor LT cable of 1.1 KV grade as required.				
2.1	3½ X 25 sq. mm	2	each		
2.2	3½ X 35 sq. mm	2	each		
2.3	3½ X 50 sq. mm	2	each		
2.4	3½ X 70 sq. mm	2	each		
2.5	3½ X 95 sq. mm	2	each		
2.6	3½ X 120 sq. mm	2	each		
2.7	3½ X 150 sq. mm	2	each		
2.8	3½ X 185 sq. mm	2	each		
2.9	3½ X 240 sq. mm	2	each		
2.10	3½ X 300 sq. mm	2	each		
2.11	3½ X 400 sq. mm	2	each		
2.12	4 X 16 sq. mm	20	each		
3	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor HT cable of 11 KV grade as required :				
3.1	70 sq. mm	1	each		
3.2	120 sq. mm	1	each		
3.3	185 sq. mm	1	each		
3.4	240 sq. mm	1	each		
3.5	300 sq. mm	1	each		
3.6	400 sq. mm	1	each		
4	General inspection & patrolling of lines/feeder wise for identification of maintenance work to be carried out (7.5 KM length within the campus) i/c strengthening of cross arms with clamps including tightening of nut bolts, removal of bird's nest and foreign material from line. (to be carried out on half yearly basis)	15	Km		
5	Re-sagging of conductor section including binding/re-binding of conductor and providing of jumpers at the ends. With ACSR 'DOG'	10	Kms/ Cond		
6	Re-sagging of earth wire including removing & fixing the wire in the earth clamps GI Wire 8 SWG	3	Kms/ Cond		

7	Replacement of earth wire including removing/replacement of earth reels & clamps, if required. Replacement of reels and clamps will be provided by the contractor. GI Wire 8 SWG	1	Kms/ Cond		
8	Replacement of old conductor including binding of wire and providing jumpers at the ends. With ACSR 'DOG'	3	Kms/ Cond		
9	Repair, jointing of damaged conductor with repair sleeves including re-sagging (section to section), binding and making jumpers at the end. With ACSR 'DOG'	10	per joint		
10	Providing of numbering on single pole/double pole structure feeder wise with good quality enamel paint, as per requirement and directions of Engineer-In-Charge.	10	Nos		
11	Providing of numbering on street light pole feeder wise with good quality enamel paint, as per requirement and directions of Engineer-In-Charge.	100	Nos		
12	Reconditioning & painting of cable route markers with good quality enamel paint, as per requirement and directions of Engineer-In-Charge.	25	Nos		
	Total Amount excl. GST=A				
	Add GST @18% on A=B				
	Net Amount incl. GST in Rs. (A+B)=C				

SCHEDULE No- 05

Name of Schedule: Annual Servicing and Repairing of fans, motors & pumps installed at CURaj.

S. No.	Description of Item	Qty	Unit	Rate excl. GST	Amount (in Rs.)
1	Preventive Maintenance/Servicing of Fans (Ceiling/Exhaust/Wall/Pedestal etc.) installed in various buildings of the University i/c checking the unit with accessories for functionality tests, replacement of nut-bolts & locking pins/clips wherever reqd, oiling/greasing, cleaning, pasting of service/repair slips on fan and any other minor repair works required on site i/c labour, tools & takels charges as per standard practice and directions of EIC. Note: 1) This work also includes replacement of spare parts of fans like condensers, regulators, fan hooks required during servicing and these spare parts will be provided by the University free of cost. 2) This work excludes all major repair works like rewinding, replacement of bush/bearing etc.	2500	each		
2	Numbering of Fans (Ceiling/Exhaust/Wall/Pedestal etc.) as required irrespective of the size of fan complete in all respects as per directions of EIC.	2500	each		
3	Overhauling of existing unit i/c checking for functional tests, cleaning, tightening of loose joints/nut-bolts, oiling, greasing, P&F of new nut-bolts and any other minor repairing work etc. as required incl. handling charges as per standard practice.				
	<i>Openwell Monoblock/Induction Motor & Pump.</i>				
3.1	01/03 Ph, 50 Hz, 230/415 V, AC, upto 02 hp capacity.	2	each		
3.2	03 Ph, 50 Hz, 415 V, AC, 03-05 hp capacity.	2	each		
3.3	03 Ph, 50 Hz, 415 V, AC, 7.5 hp capacity.	2	each		
3.4	03 Ph, 50 Hz, 415 V, AC, 10 hp capacity.	2	each		
4	Copper rewinding of existing burnt unit under buyback of old copper incl. handling charges, as per standard practice.				
	<i>Submersible Motor & Pump.</i>				
4.1	01/03 Ph, 50 Hz, 230/415 V, AC, upto 02 hp capacity.	2	each		
4.2	03 Ph, 50 Hz, 415 V, AC, 03-05 hp capacity.	4	each		
4.3	03 Ph, 50 Hz, 415 V, AC, 7.5 hp capacity.	2	each		
4.4	03 Ph, 50 Hz, 415 V, AC, 10 hp capacity.	2	each		
4.5	03 Ph, 50 Hz, 415 V, AC, 12.5 hp capacity.	3	each		
4.6	03 Ph, 50 Hz, 415 V, AC, 15 hp capacity.	3	each		

	<i>Openwell Monoblock/Induction Motor & Pump.</i>				
4.7	01/03 Ph, 50 Hz, 230/415 V, AC, upto 02 hp capacity.	2	each		
4.8	03 Ph, 50 Hz, 415 V, AC, 03-05 hp capacity.	2	each		
4.9	03 Ph, 50 Hz, 415 V, AC, 7.5 hp capacity.	2	each		
4.10	03 Ph, 50 Hz, 415 V, AC, 10 hp capacity.	2	each		
	<i>Ceiling/Wall/Pedestrial Fan</i>				
4.1	01 Ph, 50 Hz, 240 V, AC, 900/1200/1400 mm sweep size Ceiling Fan.	150	each		
4.1	01 Ph, 50 Hz, 240 V, AC, 300-400 mm sweep size Wall Fan.	25	each		
4.1	01 Ph, 50 Hz, 240 V, AC, 450 mm sweep size Wall Fan.	25	each		
4.1	01 Ph, 50 Hz, 240 V, AC, 225-300 mm sweep size Exhaust Fan.	25	each		
4.2	01 Ph, 50 Hz, 240 V, AC, 450 mm sweep size Heavy Duty Exhaust Fan.	10	each		
4.2	01 Ph, 50 Hz, 240 V, AC, 400 mm sweep size Pedestal Fan.	10	each		
5	Replacement of parts like bush/bearing/oil seal etc. with new one of same size/rating under buyback of faulty one as per standard practice incl. handling charges.				
	<i>Submersible Motor & Pump.</i>				
5.1	01/03 Ph, 50 Hz, 230/415 V, AC, upto 02 hp capacity.	2	each		
5.2	03 Ph, 50 Hz, 415 V, AC, 03-05 hp capacity.	4	each		
5.3	03 Ph, 50 Hz, 415 V, AC, 7.5 hp capacity.	2	each		
5.4	03 Ph, 50 Hz, 415 V, AC, 10 hp capacity.	2	each		
5.5	03 Ph, 50 Hz, 415 V, AC, 12.5 hp capacity.	3	each		
5.6	03 Ph, 50 Hz, 415 V, AC, 15 hp capacity.	3	each		
	<i>Openwell Monoblock/Induction Motor & Pump.</i>				
5.7	01/03 Ph, 50 Hz, 230/415 V, AC, upto 02 hp capacity.	2	each		
5.8	03 Ph, 50 Hz, 415 V, AC, 03-05 hp capacity.	2	each		
5.9	03 Ph, 50 Hz, 415 V, AC, 7.5 hp capacity.	2	each		
5.10	03 Ph, 50 Hz, 415 V, AC, 10 hp capacity.	2	each		
	<i>Ceiling/Wall/Pedestrial Fan</i>				
5.1	01 Ph, 50 Hz, 240 V, AC, 900/1200/1400 mm sweep size Ceiling Fan.	150	each		
5.1	01 Ph, 50 Hz, 240 V, AC, 300-400 mm sweep size Wall Fan.	25	each		
5.1	01 Ph, 50 Hz, 240 V, AC, 450 mm sweep size Wall Fan.	25	each		
5.1	01 Ph, 50 Hz, 240 V, AC, 225-300 mm sweep size Exhaust Fan.	25	each		

5.2	01 Ph, 50 Hz, 240 V, AC, 450 mm sweep size Heavy Duty Exhaust Fan.	10	each		
5.2	01 Ph, 50 Hz, 240 V, AC, 400 mm sweep size Pedestal Fan.	10	each		
6	Repairing of rotor/stator/shaft etc. as required as per standard practice incl. handling charges.				
	<i>Submersible Motor & Pump.</i>				
6.1	01/03 Ph, 50 Hz, 230/415 V, AC, upto 02 hp capacity.	2	each		
6.2	03 Ph, 50 Hz, 415 V, AC, 03-05 hp capacity.	2	each		
6.3	03 Ph, 50 Hz, 415 V, AC, 7.5 hp capacity.	2	each		
6.4	03 Ph, 50 Hz, 415 V, AC, 10 hp capacity.	2	each		
6.5	03 Ph, 50 Hz, 415 V, AC, 12.5 hp capacity.	2	each		
6.6	03 Ph, 50 Hz, 415 V, AC, 15 hp capacity.	2	each		
	<i>Openwell Monoblock/Induction Motor & Pump.</i>				
6.7	01/03 Ph, 50 Hz, 230/415 V, AC, upto 02 hp capacity.	1	each		
6.8	03 Ph, 50 Hz, 415 V, AC, 03-05 hp capacity.	1	each		
6.9	03 Ph, 50 Hz, 415 V, AC, 7.5 hp capacity.	1	each		
6.10	03 Ph, 50 Hz, 415 V, AC, 10 hp capacity.	1	each		
	Total Amount excl. GST=A				
	Add GST @18% on A=B				
	Net Amount incl. GST in Rs. (A+B)=C				

SCHEDULE No- 06**Name of Schedule: Annual Procurement of Electrical Goods and Works (CPWD DSR Items) at CURaj.**

Item No.	Name of Chapter/Subhead	Tentative Amount	Percentage <u>Over / At Par / Below</u> on CPWD DSR (E&M) 2022 (To be quoted by the bidder)
1	Chapter-01: WIRING	500000	
2	Chapter-02: MCCB, MCB & DBs	100000	
3	Chapter-05: EARTHING	100000	
4	Appendix-II: BASIC RATE OF MATERIAL	300000	

Note : The percentage (%) mentioned above includes all the factors over and above DSR Rates like cost of material, labour, transportation, GST, Cartage, Wastage, Contractor's Overhead & Profit etc. complete in all respects.

SCHEDULE No- 07

Name of Schedule: Annual Procurement of Non-CPWD DSR Electrical Items at CURaj.

S. No.	Description of Item	Qty	Unit	Rate excl. GST	Amount (in Rs.)
1	2.5 sq mm, three core, FRLS PVC sheathed, workshop flexible copper cable	200	metre		
2	10.0 sq mm, four core, FRLS PVC sheathed, aluminium conductor armored cable	50	metre		
3	16.0 sq mm, four core, FRLS PVC sheathed, aluminium conductor armored cable	100	metre		
4	4.0 sq mm, three core, FRLS PVC sheathed, flexible flat submersible copper cable	50	metre		
5	6.0 sq mm, three core, FRLS PVC sheathed, flexible flat submersible copper cable	50	metre		
6	20 mm dia. ISI marked, flexible PVC conduit	50	metre		
7	25 mm dia. ISI marked, flexible PVC conduit	50	metre		
8	D.P. 25/32 amps, one way modular switch with indicator, ISI marked; Make & Model: Legrand, arteor.	25	each		
9	63 amps. ratings , TPN MCB, "C" curve, 10 KA breaking capacity	20	each		
10	16 A, three pin plug top as per IS.	100	each		
11	06 A, three pin plug top as per IS.	20	each		
12	03 way bakelite connector	20	each		
13	04 way bakelite connector	20	each		
14	2.5 mfd, 230V, 50 Hz, capacitor as per IS.	2000	each		
15	4.0 mfd, 230V, 50 Hz, capacitor as per IS.	10	each		
16	35 mfd, 230V, 50 Hz, capacitor as per IS.	5	each		
17	50 mfd, 230V, 50 Hz, capacitor as per IS.	5	each		
18	4" pvc electric round sheet	500	each		
19	10-12 W, 02 pin, 230 V, 50 Hz LED PL.	100	each		
20	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.	5	each		
21	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.	5	each		
22	<u>Rollar/Knob</u> of stepped type modular fan regulator (2 module) suitable for Legrand make fan regulator.	500	each		
23	01 phase, 230 V, 50 Hz AC, 20W rated, 4' long LED tubelight/batten as per IS.	1000	each		
24	01 phase, 230 V, 50 Hz AC, 10W rated, 2' long LED tubelight/batten as per IS.	500	each		
25	90-100 W, 230V, 50 Hz LED street light as per IS.	30	each		

26	40-50 W, 230V, 50 Hz LED street light as per IS.	30	each		
27	100 W, 230V, 50 Hz LED flood light as per IS.	5	each		
28	18W-28W, 230V, 50 Hz, 1'*1' size Panel LED light as per IS.	10	each		
29	30W-48W, 230V, 50 Hz, 2'*2' size Panel LED light as per IS.	50	each		
30	40-50W , 230V, 50 Hz garden light as per IS.	5	each		
31	12-15W, 230 V, 50 Hz, LED Surface light as per IS.	20	each		
32	06W or equivalent, 03" dia. or equivalent LED Ceiling light (square shaped) as per IS.	20	each		
33	11W or equivalent, 04" dia. or equivalent LED Ceiling light (round shaped) as per IS.	20	each		
34	14W or equivalent, 06" dia. or equivalent LED Ceiling light (round shaped) as per IS.	20	each		
35	10 W, 230V, 50 Hz wall mount oval outdoor led light as per IS.	10	each		
36	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).	10	each		
37	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).	2	each		
38	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).	2	each		
39	1000 W haligen lamp/rod suitable for 1 ph, 230V AC auditorium lights.	10	each		
40	Supply of LED Light Drivers of following specifications as per IS:				
40.1	Input Voltage=100-277 V AC, Input Current=2.0 A, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=42-64 V DC, Output Current=1.4 A and suitable for 220-240 V, 50-60 Hz, AC, 0.35 Amp, 85 W max rated LED Street light.	20	each		
40.2	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.	10	each		

40.3	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.	10	each		
40.4	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.	25	each		
40.5	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.	20	each		
40.6	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.	25	each		
40.7	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.	25	each		
40.8	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.	25	each		
40.9	Input Voltage=150-270 V AC, Input Frequency=50 Hz, Power Factor=0.9 minimum, Output Voltage=19 V DC, Output Current=0.17 A and Suitable for 240 V, 50 Hz, AC, 08 W Surface Light.	25	each		
40.10	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.	25	each		
	Total Amount excl. GST=A				
	Add GST @18% on A=B				
	Net Amount incl. GST in Rs. (A+B)=C				

SCHEDULE No- 08**Name of Schedule: Comprehensive AMC of Online UPS(s) installed at CURaj.**

S. No.	Description of Item	Qty	Unit	Rate per annum excl. GST	Amount (in Rs.)
1	Comprehensive AMC of 1 KVA Online UPS	14	each		
2	Comprehensive AMC of 2 KVA Online UPS	5	each		
3	Comprehensive AMC of 3 KVA Online UPS	3	each		
4	Comprehensive AMC of 5-7.5 KVA Online UPS	8	each		
5	Comprehensive AMC of 10 KVA Online UPS	2	each		
6	Comprehensive AMC of 15 KVA Online UPS	1	each		
7	Comprehensive AMC of 20-30 KVA Online UPS	5	each		
8	Comprehensive AMC of 40 KVA Online UPS	2	each		
	Total Amount excl. GST=A				
	Add GST @18% on A=B				
	Net Amount incl. GST in Rs. (A+B)=C				

SCHEDULE No- 09**Name of Schedule: Annual Servicing and Repairing of Water Coolers installed at CURaj.**

S. No.	Description	Qty	Unit	Rate excl. GST	Amount (in Rs.)
1	Servicing of existing installed W/C i/c checking the unit for functional tests, complete cleaning with water/vacuum, tightening of loose joints/nut-bolts if any, oiling, greasing and any other minor repair work etc. as required on site as per standard practice.	86	job		
2	Replacement of existing burnout <u>Compressor</u> with new Compressor of same rating as per IS i/c installation, testing & commissioning alongwith <u>gas charging</u> (green gas) i/c pressure testing as per standard practice complete in all respects and handling charges under buyback. (Make:Highly/Hitachi/Copeland/Danfoss/ Emerson/Voltas).	10	Nos.		
3	Charging of suitable refrigerant gas (green gas) i/c flushing of gas, leakage detection, testing, replacement of filter brazing joints etc. as required as per standard practice.	15	job		
4	Replacement of existing faulty thermostat with the new one of same rating as per IS including removing, fixing, testing & commissioning etc. as required as per standard practice under buyback.	20	Nos.		
5	Replacement of existing faulty relay with the new one of same rating as per IS including removing, fixing, testing & commissioning etc. as required as per standard practice under buyback.	20	Nos.		
6	Replacement of existing faulty 01 ph, 230V 50 Hz 36-45 mfd running Capacitor with new one of same rating as per IS including removing, fixing, testing & commissioning etc. as required as per standard practice under buyback.	20	Nos.		
7	Replacement of existing faulty 01 ph, 230V 50 Hz 105-150 mfd starting Capacitor with new one of same rating as per IS including removing, fixing, testing & commissioning etc. as required as per standard practice under buyback.	20	Nos.		
8	Replacement of existing faulty 01 ph, 230V 50 Hz 60-80W fan motor with new one of same rating as per IS including removing, fixing, testing & commissioning etc. as required as per standard practice under buyback.	10	Nos.		

9	Replacement of existing faulty Water-Cooled Condenser (Copper) with new one of same rating/size as per IS including removing, fixing, testing & commissioning etc. as required as per standard practice under buyback.	10	each		
10	Replacement/Fixing of water storage cabinet lock with two keys set as per standard practice under buyback.	10	Nos.		
11	Replacement of damaged pvc drain pipe with new one as per std practice under buyback.	50	each		
12	Numbering of water cooler	10	each		
	Total Amount excl. GST=A				
	Add GST @18% on A=B				
	Net Amount incl. GST in Rs. (A+B)=C				

SCHEDULE No-10

Name of Schedule: Comprehensive Annual Maintenance Contract of Ductable/VRV-VRF/Cassate type Air-Conditioners Installed at Central University of Rajasthan.

Sr. No.	Description	T/Qty	Unit	Rate excl. GST	Amount (in Rs.)
1	<p>Comprehensive Maintenance of Inverter technology based scroll compressor(s) 40 HP VRV/VRF type Air Conditioning Systems complete in all respects as per standard practice and directions of EIC.</p> <p>Details of the units are as under:</p> <p><u>Outdoor Unit Details:</u> Modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating, having all hermetically sealed inverter type Scroll Compressor(s), microprocessor based Controller, top discharge type condensing unit(s), with R 410 A Refrigerant, Suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. Cooling Range: -5C to 49C ; Operating Range in heating: -20C to 15.5C {Heat + Cool Pump Unit = 40HP (20+20)}. Make: Hitachi, Model No: RAS/20HNBCM1.</p> <p><u>Indoor Unit Details:</u> 4-way (360 degree)flow VRV/VRF Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cord less remote control etc., suitable for operation on single phase 230 V ± 10%, 50Hz AC supply, complete. Automatic force shut down provision in case of fire on receiving signal from BMS System. The unit has two modes; In first mode unit shall increase temperature, when no occupancy. In Second mode, unit will be shut down when no occupancy in room. Make: Hitachi.</p> <p>1.0 - 1.5 TR with sensing panel, Make: Hitachi, Model No: RCI-2.0FSKDNQ = 01 Unit 3.0 - 3.2 TR with sensing panel Unit-01, Make: Hitachi, Model No: RCI-4.0FSKDNQ = 03 Units 4.0 - 4.6 TR with sensing panel Unit-02, Make: Hitachi, Model No: RCI-5.0FSKDNQ = 03 Units</p> <p>The scope also includes CMC of all associated parts like refrigerant piping, drain pipes, communication & power cables, remote control units, sensors etc.</p> <p>Date of Installation: 03.10.2020 Location: VC Secretariat, Admin Building, CURaj.</p>	12	Jobs		

2	<p>Comprehensive Maintenance of 11.0 TR capacity Ductable Air conditioning units with Scroll Compressor with R 410 A Refrigerant, vibration isolators etc. complete. The unit is suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. Each unit comprise of separate Indoor and outdoor unit. (Make- Hitachi).</p> <p>The scope also includes CMC of all associated parts like refrigerant piping, drain pipes, communication & power cables, remote control units, sensors etc.</p> <p>Date of Installation: 25.01.2021 Location: Seminar Hall, 2nd Floor, A5 Academic Building, CURaj.</p>				
2.1	Unit-01, Make: Hitachi, Model No: PAO132HZDA3	12	jobs		
2.2	Unit-02, Make: Hitachi, Model No: PAO132HZDA3	12	jobs		
2.3	Unit-03, Make: Hitachi, Model No: PAO132HZDA3	12	jobs		
2.4	Unit-04, Make: Hitachi, Model No: PAO132HZDA3	12	jobs		
3	<p>Comprehensive Maintenance of 5.5 TR capacity Ductable Air conditioning units with Scroll Compressor, R 410 A Refrigerant, vibration isolators etc. complete. The unit is suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. Each unit comprise of separate Indoor and outdoor unit. (Make- Carrier).</p> <p>The scope also includes CMC of all associated parts like refrigerant piping, drain pipes, communication & power cables, remote control units, sensors etc.</p> <p>Date of Installation: 2014-15 Location: NMR Lab, A4 Building, CURaj.</p>				
3.1	Unit-01, Make: Carrier, Model No: 38LH-066GAS	12	jobs		
3.2	Unit-02, Make: Carrier, Model No: 38LH-066GAS	12	jobs		
3.3	Unit-03, Make: Carrier, Model No: 38LH-066GAS	12	jobs		
4	<p>Comprehensive Maintenance of ceiling-mounted 3.0 TR Cassette Air Conditioning units of the following specifications as per standard practice and directions of EIC:</p> <p>Power Ratings: 01Ph/03Ph, 50 Hz, AC Supply, Compressor: Rotary/Twin Rotary type, Type: Cooling only, Coil Material (evaporator & condensor): Copper, Remote Control: Included, AC Technology: Inverter, Eco-friendly Green Refrigerant Gas, Capacity: 3.0 TR (36000 BTU/Hr(+/-10% or equivalent), Make: Bluestar.</p> <p>The scope also includes CMC of all associated parts like refrigerant piping, drain pipes, communication & power cables, remote control units, sensors etc.</p> <p>Date of Installation: 01.05.2023 Location: NAAC Room, Admin Building, CURaj.</p>				
4.1	Unit-01, Make: Bluestar, Model No: ID336MBTUR3	12	jobs		

4.2	Unit-02, Make: Bluestar, Model No: ID336MBTUR3	12	jobs		
4.3	Unit-03, Make: Bluestar, Model No: ID336MBTUR3	12	jobs		
	Total Amount excl. GST=A				
	Add GST @18% on A=B				
	Net Amount incl. GST in Rs. (A+B)=C				

SCHEDULE No.- 11

Name of Schedule: Annual Servicing and Repairing of Split and Tower type Air-Conditioners Installed at Central University of Rajasthan.

Sr. No.	Description	T/Qty	Unit	Rate excl. GST	Amount (in Rs.)
1	Servicing of existing installed AC units, i/c checking the units and accessories for functional tests, cleaning of filter units, tightening of loose joints (if any), oiling, greasing and any other minor repairing work etc. as reqd, as per std practice.				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity.	400	job		
b	Tower AC of 4.0 TR or equivalent capacity.	50	job		
2	Dismantling of existing installed AC units along with accessories, <u>Shifting</u> them on new location with in the campus etc. as reqd i/c handling charges and and making the wall same as earlier complete etc. as per standard practice.				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity.	5	each		
b	Tower AC of 4.0 TR or equivalent capacity.	2	each		
3	<u>Installation, testing and commissioning</u> of AC units (indoor & outdoor) along with accessories issued by the client i/c handling charges and making the wall same as earlier complete etc. as per standard practice.				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity.	5	each		
b	Tower AC of 4.0 TR or equivalent capacity.	2	each		
4	Dismantling of existing installed AC units along with accessories, <u>Shifting</u> them on new location with in the campus and <u>Re-installation along with testing and commissioning</u> etc. as reqd i/c handling charges and and making the walls same as earlier complete etc. as per standard practice.				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity.	5	each		
b	Tower AC of 4.0 TR or equivalent capacity.	5	each		
5	Supply and fixing of <u>Flare Nut</u> for cooling/condensing copper pipe complete as reqd, as per standard practice for the following types of ACs:				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity.	20	each		
b	Tower AC of 4.0 TR or equivalent capacity.	20	each		

6	Replacement of existing burnout <u>Compressor</u> from the outdoor unit in installed position and fixing the new Compressor in the AC unit <u>i/c pressure testing & gas charging</u> i/c handling charges complete etc. as reqd, as per standard practice <u>under buyback of old one</u> . (Make: Highly/Mitsubishi Electric/Hitachi/GMCC/Copeland/Danfoss).				
a	1.0 TR or equivalent capacity Split Inverter AC- R 410 A	1	each		
b	1.5 TR or equivalent capacity Split Non-Inverter AC- R 22	2	each		
c	1.5 TR or equivalent capacity Split Inverter AC- R 410 A	2	each		
d	2.0 TR or equivalent capacity Split Non-Inverter AC- R 22	10	each		
e	2.0 TR or equivalent capacity Split Inverter AC- R 410 A	2	each		
f	4.0 TR or equivalent capacity Tower Non Inv AC- R 22	20	each		
7	<u>Charging of refrigerant gas</u> in following types of AC units i/c flushing of gas, leakage detection, testing, replacement of filter brazing joints etc. as reqd, as per standard practice.				
a	1.0 TR or equivalent capacity Split Inverter AC- R 410 A	2	job		
b	1.5 TR or equivalent capacity Split Non-Inverter AC- R 22	30	job		
c	1.5 TR or equivalent capacity Split Inverter AC- R 410 A	10	job		
d	2.0 TR or equivalent capacity Split Non-Inverter AC- R 22	20	job		
e	2.0 TR or equivalent capacity Split Inverter AC- R 410 A	10	job		
f	4.0 TR or equivalent capacity Tower Non Inv AC- R 22	10	job		
8	<u>Top up of refrigerant gas</u> in AC units i/c leakage detection, testing, replacement of filter brazing joints etc. as reqd, as per standard practice.				
a	R-22 Refrigerant Gas	5	kg		
b	R-32 Refrigerant Gas	2	kg		
c	R-410 A Refrigerant Gas	5	kg		
9	Pdg. & fixing of <u>extra cooling & condensing copper pipe line</u> alongwith suitable capacity round <u>PVC insulated & PVC Sheathed electric copper cable</u> as per IS for connections from outdoor unit to indoor unit as reqd, as per standard practice, suitable for following type of ACs:				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity.	25	metre		
b	Tower AC of 4.0 TR or equivalent capacity.	25	metre		
10	Pdg. & fixing of <u>3*2.5 sqmm round PVC insulated & PVC Sheathed electric copper cable</u> as per IS as per standard practice.	30	metre		

11	Pdg. & fixing of <u>three pin 15/16 Amp plug top</u> as per IS with connections, testing and commissioning etc. as reqd as per std practice.	50	each		
12	Pdg. & fixing of <u>extra drain pipe</u> as reqd, as per standard practice, suitable for following type of ACs:				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity.	25	metre		
b	Tower AC of 4.0 TR or equivalent capacity.	10	metre		
13	Pdg. & fixing of <u>AC outdoor unit floor/wall stand</u> as reqd, as per standard practice, suitable for following type of ACs:				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity.	5	each		
b	Tower AC of 4.0 TR or equivalent capacity.	5	each		
14	Replacement of existing faulty <u>AC sensors</u> with new sensor of same rating including removing, fixing, testing & commissioning etc. as reqd, as per standard practice under buyback, suitable for following types of ACs:				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity.	5	each		
b	Tower AC of 4.0 TR or equivalent capacity.	5	each		
15	<u>Repairing (rewinding etc. complete) of existing faulty Condenser Cooling Fan Motor (AC/DC)</u> including removing, fixing, testing & commissioning etc. as reqd as per standard practice, suitable for following types of Acs:				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity	10	each		
b	Tower AC of 4.0 TR or equivalent capacity.	5	each		
16	<u>Replacement of existing fitted faulty Condenser Cooling Fan Motor (AC/DC)</u> with new one of same rating as per IS, i/c handling charges complete etc. as reqd, as per standard practice under buyback of old one, suitable for following types of ACs.				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity	5	each		
b	Tower AC of 4.0 TR or equivalent capacity.	2	each		
17	<u>Replacement of existing fitted faulty AC indoor unit blower motor (AC/DC)</u> with new one of same rating as per IS i/c handling charges complete etc. as reqd as per standard practice under buyback of old one, suitable for following type of ACs.				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity	2	each		
b	Tower AC of 4.0 TR or equivalent capacity.	2	each		
18	<u>Repairing of existing faulty PCB of Non-Inverter AC indoor unit</u> including removing, fixing, testing & commissioning etc. as required.				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity	15	each		

b	Tower AC of 4.0 TR or equivalent capacity.	5	each		
19	<u>Repairing of existing faulty PCB of Non-Inverter AC outdoor unit</u> including removing, fixing, testing & commissioning etc. as required.				
a	Tower AC of 4.0 TR or equivalent capacity.	5	each		
20	<u>Repairing of existing faulty PCB of Inverter AC indoor unit</u> including removing, fixing, testing & commissioning etc. as required.				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity	5	each		
21	<u>Repairing of existing faulty PCB of Inverter AC outdoor unit</u> including removing, fixing, testing & commissioning etc. as required.				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity	5	each		
22	<u>Replacement of existing faulty PCB of Non-Inverter AC indoor unit</u> with new one of same rating & capacity including removing, fixing, testing & commissioning etc. as required under buyback.				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity	10	each		
b	Tower AC of 4.0 TR or equivalent capacity.	5	each		
23	<u>Replacement of existing faulty PCB of Non-Inverter AC outdoor unit</u> with new one of same rating & capacity including removing, fixing, testing & commissioning etc. as required under buyback.				
a	Tower AC of 4.0 TR or equivalent capacity.	5	each		
24	<u>Replacement of existing faulty PCB of Inverter AC indoor unit</u> with new one of same rating & capacity including removing, fixing, testing & commissioning etc. as required under buyback.				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity	3	each		
25	<u>Replacement of existing faulty PCB of Inverter AC outdoor unit</u> with new one of same rating & capacity including removing, fixing, testing & commissioning etc. as required under buyback.				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity	3	each		
26	<u>Replacement of existing faulty Running Capacitor of AC</u> with new one of same rating as per IS including removing, fixing, testing & commissioning etc. as reqd, as per std practice under buyback.				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity	30	each		
27	<u>Repairing of existing faulty 01 Ph, 230 V, 50 Hz, AC Voltage Stabilizer/Regulator</u> including removing, fixing, testing & commissioning etc. as reqd as per std practice.	10	each		

28	Replacement of existing faulty "Four-Way Reversing Valve-Copper" of Hot & Cool Split AC of 1.5/2.0 TR or equivalent capacity with new one of same rating as per IS including removing, fixing, testing & commissioning etc. as reqd, as per std practice under buyback.	2	each		
29	Replacement of existing faulty <u>Air/Water-Cooled Condenser (Copper)</u> with new one of same rating/size as per IS including removing, fixing, testing & commissioning etc. as reqd as per std practice under buyback for the following types of ACs:				
a	Split AC of 1.0/1.5/2.0 TR or equivalent capacity	5	each		
b	Tower AC of 4.0 TR or equivalent capacity.	3	each		
30	Numbering of Air-Conditioner Units (indoor & outdoor both) as per std. practice and directions of EIC.	10	each		
	Total Amount excl. GST=A				
	Add GST @18% on A=B				
	Net Amount incl. GST in Rs. (A+B)=C				

SCHEDULE No- 12

Name of Schedule: Annual Maintenance Contract of Air Ducting (ETAC) System installed at Central University of Rajasthan.					
Sr. No.	Description of Work	Qty	Unit	Rate excl. GST (in Rs.)	Amount (in Rs.)
1	Non-Comprehensive Annual Maintenance of Air Ducting (ETAC) System. The scope of work is mentioned in tender document and briefed hereunder: - General inspection, Checking and Servicing of all units i/c panels, blowers, motors & pumps and accessories on quartely basis. - Any breakdown call will be attended immediately on all days including holidays and sundays within the time limit mentioned in NIT. - Repair of electrical and mechanical parts found faulty due to normal wear and tear only and excluding replacement of any spare part and repairing of motors, pumps, blowers etc., these will be on chargeable basis.				
1.1	28000 CFM - Double Stage Air Washer at B3 (Left side)	12	jobs		
1.2	28000 CFM - Double Stage Air Washer at B3 (Right side)	12	jobs		
1.3	28000 CFM - Double Stage Air Washer at B4 (Left side)	12	jobs		
1.4	28000 CFM - Double Stage Air Washer at B4 (Right side)	12	jobs		
1.5	4000 CFM - Single Stage Air Washer at B3 (Mess Area)	12	jobs		
1.6	4000 CFM - Single Stage Air Washer at B4 (Mess Area)	12	jobs		
1.7	10000 CFM - Single Stage Air Washer at Mega Mess Left side	12	jobs		
1.8	10000 CFM - Single Stage Air Washer at Mega Mess Right side	12	jobs		
1.9	30000 CFM - Single Stage Air Washer at Mega Mess Left side	12	jobs		
1.10	30000 CFM - Single Stage Air Washer at Mega Mess Right side	12	jobs		
2	Copper rewinding of existing burnt unit under buyback of old copper incl. handling charges, as per standard practice. (Openwell Monoblock/Induction Motor & Pump)				
2.1	01/03 Ph, 50 Hz, 230/415 V, AC, upto 02 hp capacity.	6	each		
2.2	03 Ph, 50 Hz, 415 V, AC, 7.5 hp capacity.	2	each		
2.3	03 Ph, 50 Hz, 415 V, AC, 20 hp capacity.	4	each		
3	Replacement of parts like bush/bearing/oil seal etc. with new one of same size/rating under buyback of faulty one as per standard practice incl. handling charges. (Openwell Monoblock/Induction Motor & Pump)				
3.1	01/03 Ph, 50 Hz, 230/415 V, AC, upto 02 hp capacity.	6	each		

3.2	03 Ph, 50 Hz, 415 V, AC, 7.5 hp capacity.	2	each		
3.3	03 Ph, 50 Hz, 415 V, AC, 20 hp capacity.	4	each		
4	Replacement of 01/03 Ph, 230/415V, 50 Hz AC LT Contactor suitable for upto 02 hp Openwell Monoblock/Induction Motor & Pump i/c connections etc. as reqd on site.	10	each		
5	Replacement of 03 Ph, 415V, 50 Hz AC LT Contactor suitable for 7.5 hp Openwell Monoblock/Induction Motor & Pump i/c connections etc. as reqd on site.	4	each		
6	Replacement of 03 Ph, 415V, 50 Hz AC LT Contactor suitable for 20 hp Openwell Monoblock/Induction Motor & Pump i/c connections etc. as reqd on site.	10	each		
7	Replacement of 01/03 Ph, 230/415V, 50 Hz AC Relay suitable for upto 02 hp Openwell Monoblock/Induction Motor & Pump i/c connections etc. as reqd on site.	10	each		
8	Replacement of 03 Ph, 415V, 50 Hz AC Relay suitable for 7.5 hp Openwell Monoblock/Induction Motor & Pump i/c connections etc. as reqd on site.	4	each		
9	Replacement of 03 Ph, 415V, 50 Hz AC Relay suitable for 20 hp Openwell Monoblock/Induction Motor & Pump i/c connections etc. as reqd on site.	10	each		
10	Supplying & Fixing of Box type pre-filters of 50 mm thick having non woven synthetic media and filtration efficiency 90% down 10 micron particles with aluminium frame work etc as required & complete in all respects as per directions of Engineer-In-Charge.	100	sqft		
	Total Amount excl. GST=A				
	Add GST @18% on A=B				
	Net Amount incl. GST in Rs. (A+B)=C				