Regulation No. 02 of 2024

No. 02/2024 Date : 16/08/2024

Procedure for Maintenance of Air Conditioners, Water Coolers, Water Purifier and its Components by adopting Break Down Service Mechanism

Whereas the Management Council has prescribed Rule No.17/2010, under the provisions of Maharashtra Universities Act, 1994, on the above subject,

AND

Whereas Maharashtra Universities Act, 1994 has been superceded by the Maharashtra Public Universities Act, 2016, vide Government of Maharashtra Gazzette, 11th January 2017, in which the provision for making a Rule is not prescribed,

AND

Whereas now under the existing Maharashtra Public Universities Act, 2016, under its section 75, the aforesaid Rule No.17/2010 is to be converted in the Regulation on the subject,

AND

Whereas the Management Council in its meeting held on 30th October, 2023 (Adj. of 09/10/2023) vide Item No. 136, has directed to make Regulation in this regard.

Therefore, the Management Council prescribes the following Regulation,

1) This Regulation may be called "Procedure for Maintenance of Air Conditioners, Water Coolers, Water Purifier and its Components by adopting Break Down Service Mechanism"
2) This Regulation shall come into force with effect from the date (05.07.2024 (Ajd. of 14.06.2024, Item No. 134) of its approval by the Management Council.
3) In this Regulation, unless the context otherwise requires, -
   i) "University" means Sant Gadge Baba Amravati University, Amravati.
   ii) "Registrar" means Registrar of the University appointed under the provisions of Section 14(3) & (4) of the Maharashtra Public Universities Act, 2016.
   iii) "Engineering Section" means Engineering Section of the University.
   iv) "Air Conditioners, Water Coolers, Water Purifier and its Components" means all types Air Conditioners, Water Coolers & Water Purifier, purchased for the University.
   v) "Service Provider" means a person or a firm with whom the agreement for repairs/services of the Air Conditioners, Water Coolers, Water Purifier and its Components is executed by the University.
   vi) "Controlling Officer" means the Executive Engineer of Engineering Section under whose control the work of repairs/services of the Air Conditioners, Water Coolers, Water Purifier and its Components are being carried out.
   vii) "User" means Head of the Departments/ Officers/ Employees under whose supervision the Air Conditioners, Water Coolers & Water Purifiers and its Components is directly used.
   viii) **"**University Deputy Engineer (Electrical)**"** means University Deputy Engineer (Electrical) appointed by the University in Engineering Section.
   ix) "Junior Engineer (Electrical)'' means Junior Engineer (Electrical) appointed by the University in Engineering Section.

x) "Technical Assistant'' means Technical Assistant appointed by the University in Engineering Section.

xi) "Progress Report" means the six monthly report of execution of Contract Service.

xii) "Contract Service" means service rendered by the Service Provider under contract of Breakdown Service Mechanism.

4) (i) The Controlling Officer shall prepare a list of Air Conditioners, Water Coolers, Water Purifiers and its Components to be covered under Breakdown Service Mechanism. He shall submit the said list for approval of the Hon'ble Vice-Chancellor at least two months earlier before expiry of the period of current Contract Service.

(ii) The rates shall be approved before the expiry of the contract service provided if under any circumstances, the rates could not get approved, the earlier rates and contract service will be in force for next quarter. In no case the continuity regarding contract service should be broken.

5) The Controlling Officer shall invite the tender / quotations as per procedure laid down in the Accounts Code for giving contract service of Air Conditioners, Water Coolers, Water Purifier and its Components.

6) The controlling officer shall maintain complaint register in the prescribed proforma Annexure-A and shall make entry of the complaint in the said complaint register

7) User will inform the breakdown calls to the Engineering Section in the prescribed format as per Annexure-B. University Deputy Engineer (Electrical) shall take the note of repair of Air Conditioners, Water Coolers, Water Purifier and its Components.

8) The Controlling Officer shall inform to the Service Provider as and when the breakdown occur.

9) Service Provider shall attend the repair Call to determine problem in the Air Conditioners, Water Coolers, Water Purifier and it's Components. The Service Provider will diagnose the faults in presence of Technical Assistant / Junior Engineer (Electrical) and shall submit its report in the enclosed format as per Annexure-C.

10) The Controlling Officer will issue the work-order directly to the Service Provider for the service / repair /replacement from the approved list of the equipments for the faults stated in para 9.

11) Service provider shall carryout repair/replacement of spares in presence of Technical Assistant / Junior Engineer.

12) The User and the University Deputy Engineer (Electrical) shall certify the maintenance carried out by the Service Provider.

13) The User shall maintain 'Maintenance Cards' for the equipments in the form as prescribed under Annexure-D. He shall maintain all the cards at his office which can be easily made available at the time of inspection.

14) The Service Provider shall execute the agreement with the University in the format approved by the Management Council from time to time as per Annexure-II

15) The agreement shall clearly specify the terms and conditions regarding service contract of the Air Conditioners, Water Coolers, Water Purifier and it's Components. The Controlling Officer shall inform the user of the equipment/s the terms and conditions of the contract service.

16) The agreement shall specify the cost of the spare parts/repair charges/service charges of the Air Conditioners, Water Coolers, Water Purifier and it's Components for likely failure of components.

17) The Service provider shall deposit the replaced spare parts with the University Deputy Engineer (Electrical) who shall maintain the record of the same to testify the original (old) part is replaced with the new part. The process of disposal of the old parts shall be made as per provisions of the Accounts Code with prior approval of Management Council.

18) The Service provider shall submit the bills for the quarterly payment as per agreement.

19) The Service provider shall deposit Rs.1,00,000/- (Rs. One Lakh only) as security deposit at the time of execution of agreement.

20) The Controlling Officer shall make the provision in the agreement regarding penalty to be imposed on the service provider. Penalty of Rs.100/- per day will be imposed on the Service Provider in the event of violation of the contract service.

21) In case of a dispute arising during the period of the contract service of Air Conditioners, Water Coolers, Water Purifier and it's Components, the decision of the Hon'ble Vice-Chancellor shall be final.

22) All the disputes arising out of this Regulation shall be subject to settlement by Amravati Judicature.

23) After the completion of Six months of contract service, the Controlling Officer shall submit an progress report of the execution of the contract to the Management Council.

24) Rule No.17/2010 is hereby repealed.

*****

Annexure-II

DRAFT AGREEMENT OF MAINTENANCE OF AIR CONDITIONERS , WATER COOLERS, WATER PURIFIER AND ITS COMPONENTS THROUGH BREAKDOWN SERVICE MECHANISM

(on Rupees One Hundred Stamp Paper)

1) This deed of agreement made on this ___day of _____ between Sant Gadge Baba Amravati University, Amravati through it's Registrar hereinafter called the University on one part.

And

_____

hereinafter called "Service Provider" on the other part, which expressions shall include his legal heirs and successors.

The charges for replacement of spares, repair of spares, service charges if any shall be as per **Annexure-I** for one year required for maintenance of Air Conditioners , Water Coolers, Water Purifier and its Components.

Whereas the Service Provider has agreed to accept the terms & conditions mentioned as under.

This deed of Agreement witnesses as under :

1. The Service Provider shall make available Service Engineer round the clock at University office during the contract period.

2. The Service Provider will provide spares, repair of spares, service charges if any which may be needed for Air Conditioners, Water Coolers, Water Purifier and it's Components during the contract services as per the approved rates.

3. The Service Provider will extend one year's working warranty for Compressors & Six months working warranty for all other spares replaced during contract period.

4. The contract service is not transferable.

5. Payment of the Service Provider will be made on quarterly basis after receiving the bills of all repaired/replaced spares/service charges, if any, carried out during the quarter and necessary documentary evidence i.e. certification from the Controlling Officer about the satisfactory working of the repaired Air Conditioners, Water Coolers, Water Purifier and it's Components.

6. The Service provider shall deposit Rs.1,00,000/- (Rs.One Lakh only) as security deposit at the time of execution of agreement.

7. Response time to attend any fault should be less than two days and repair and replacement of the parts should be as per Annexure-E. If the Service Provider will not do the repair of any machines as mentioned in Annexure-E in a specified time then University will be free to get done the repair of work from the outside agency and all the expenses (i.e. repairs, replacement, services and any other) will be deducted from the payment of the Service Provider. In addition to this, penalty will be levied i.e. Rs. 100/- per day.

8. Payment will be made after making deduction on account of down time penalty for the quarter period. Penalty will be calculated on the basis of down time reports from the Controlling Officer. If the services are satisfactory then the payment will be released within 15 days after the expiry of the quarter.

9. No advance payment will be made by this office for the contract service.

10. If the service provider will not carry out the work within specified period, the security deposit will be forfeited.

11. The Service Provider will attend the complaint as per complaint register maintained by Controlling Officer. The format of the complaint register is enclosed in Annexure-A.

12. The provisions made in the Regulation No.02/2024 shall be binding on the Service Provider. The copy of regulation is enclosed in Annexure-III.

13. The Service Provider shall not make or send offensive, indecent, menacing, nuisance or hoax calls or communications or to cause annoyance, inconvenience or needless anxiety, if it happens the Service Provider shall be entitled to immediate termination of the contract.

14. University will review the services of the contractor after Six months, in case services are not found as per Agreement then University will terminate the Agreement.

15. The Service Provider agreed that infringement of any of the above conditions will result in the termination of the contract. The decision of the Sant Gadge Baba Amravati University shall be final with regard to this contract. If the contract remains inoperative as a result of inaction of the Service Provider, the Sant Gadge Baba Amravati University shall instantly terminate the contract by giving one month's notice to the Service Provider resulting in forfeiture of the security deposit.

16. In case of dispute; the matter shall be decided in Amravati Jurisdiction.

17. The Controlling Officer will be satisfying officer for all repairs and maintenance.

Party No.1 _____

Party No.2 Registrar, Sant Gadge Baba Amravati University, Amravati.

_____

_____

_____

Witness : Party No.1

(Service Provider)

1) _____

2) _____ Party No.2

(Registrar)

Prepared by Checked & Verified by Approved by M.C. Vide
Item No.-------- dated ----------

University Deputy Engineer (Elect) **Executive Engineer** **Registrar**
Sant Gadge Baba Amravati University.

SANT GADGE BABA AMRAVATI UNIVERSITY,AMRAVATI

PHONE : 2662206.
GRAM : SGBAMUNI (MAHARASHTRA)

No.:SGBAU/11/ 1/ /2024
Date :

TENDER NOTICE No. ---/2024

Sir,

E-tender duly super scribing our reference number and due date are invited for Service, repairs, replacement of the parts of the Air Conditioners, Water Coolers, Water Purifier and it's Components. E-tenders are to be filled online on www.mahatenders.gov.in. Terms & Conditions will be as under.

Tender complete in all respect shall be filled on or before ----/---/2024 at 13.00 hours the tenders shall be probably opened in the office of Executive Engineer, Engineering Section, Sant Gadge Baba Amravati University, University Campus, Tapowan Road, Amravati on ---/---/2024 at 13.00 hours in presence of tenderers who will present at that time.

Rates for service, repair and replacement of Spare parts of Air Conditioners, Water Coolers, Water Purifier and it's Components, are enclosed at Annexure-I.

Terms & Conditions :

1. The tenderer should submit the tender in two bid Envelope System. While filing the tender, tenderer shall submit the following documents in Envelope No. 1 as under and Envelope No. 2 should contain their rates.

   (a) Earnest Money Deposit (EMD) of Rs.10,000/- (Rupees Ten thousand only) and tender form fee to be filled online only.

   (b) Copy of Shop act registration certificate.

   (c) Copies of the work order/ agreement along with the name of the customers during last 3 years, in support of experience of repair work.

   (d) GST Registration certificate.

   (e) PAN

   (f) Income Tax Return of last finanshial year.

   (g) Certificate of black listed.

Without above documents mentioned in sr. no. (a) to (g) the tender will not be considered and second envelope i.e. rates on the prescribed bid form will not be opened.

2. Quoted rates should be inclusive of all taxes (i.e. GST, Sales tax, Excise duty, Custom duty, Octroi, Insurance etc.)

3. Repairs are to be carried out at the location of the equipment and should not take any equipment out side the university campus for repair or any other purpose without the written permission of Controlling Officer.

4. The Service Provider shall execute the Agreement with the University in the format provided by the Management Council. Copy of the Agreement is enclosed on Annexure-II.

5. The provision made in Regulation No.02/2024 in respect of maintenance of Air Conditioners, Water Coolers, Water Purifier and it's Components, shall be binding on the Service Provider. Copy of the Regulation is enclosed on Annexure-III.

6. Service Provider whose bid has been accepted shall have to deposit replaced defective parts with the university, if any.

7. The Service Provider whose tender is accepted shall have to give security deposit of Rs.1,00,000/- (Rupees One Lakh only) by demand draft in favour of Finance & Account Officer, Sant Gadge Baba Amravati University Amravati.

8. GST / Income tax / Service Tax and any other tax applicable from time to time as per rules will be deducted from bills.

9. The lowest rates will be calculated on the basis of the following mechanism :

   Cost = ∑ Cost of Item X frequency of the failure Item / Total frequencies of failure of all items.

10. Incomplete tender shall not be considered, Right to reject any tender fully or partially without assigning any reason is reserved by the University.

11. The Controlling Officer will be the checking & certifying officer for all repairs.

Executive Engineer
Engineering Section

Price: Rs. 2,360/-(including GST 18%)

TENDER FORM

To,
The Registrar,
Sant Gadge Baba Amravati University,
Amravati.

Subject: **Maintenance of Air Conditioners , Water Coolers, Water Purifier & its Components through Break Down Service Mechanism.**

Sir,

In reference to the advertisement published in .....on dated. ----/---/२०--- for Maintenance of Air Conditioners, Water Coolers, Water Purifier and it's Components, through Break Down Service Mechanism. I quote herewith the rate for Maintenance of Air Conditioners, Water Coolers, Water Purifier and it's Components, through Break Down Service Mechanism mentioned in the tender notice. I have read the terms and conditions and agreed to abide the same.

DESCRIPTION

Rates for service, repair and replacement of Air Conditioners , Water Coolers, Water Purifier and its Components is enclosed at Annexure-I.

1. **I/We enclosed EMD of Rs. ——————————/- submitted online.**

Name of Firm M/s. ——————————————————————

Address ——————————————

——————————————————————

——————————————————————

——————————————————————

Pin Code No. —————————— **Phone No. (O) ——————————**

Fax No. —————————— **Mobile No. ——————————**

E-Mail ID. ——————————

Date : ----/---/202--

(Name, Signature & SEAL of the Service Provider)

Sr. No.	Name of Department/ Section	No. of Air Cond-itioner	No.of Water cooler	No. of Aqua-guard	Total	Maint-enance Card issued	Signature Head of Department

Annexure-A

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

COMPLAINT REGISTER

Sr.No.	Name of the Item With central stockbook No.	Nature of Break Down	Location of Item	Date on which complaint Reported	Date on which service provider attended the call	Date on which Item repaired	Spare parts replaced	Cost of replaced spare parts / repair/services	Sign & Remark of User	Sign & Remark of Technical Assistant / Junior Engineer(Electrical)	Sign & Remark University Deputy Engineer (Electrical)	Sign & Remark of Controlling Officer
1	2	3	4	5	6	7	8	9	10	11	12	13

Annexure-B

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

PROFORMA OF COMPLAINT

Sr.No.	Name of the Item	Central stockbook No.	Location of Item	Nature of Complaint	Date on which complaint Reported
1	2	3	4	5	6

Date :

Head of Deptt. / Section

Annexure-C

Diagnosis Call Report of Fault in Airconditioners , Water Coolers, Water Purifier & it's Components
(use in triplicate)

Name of the Department : _____

Name of the Item with the Central Stock Book No. : _____

Make of Item : _____

Model No. (if any) : _____ **Serial No.** : _____

Defect Reported : _____

_____

Diagnosis of the fault :
(Details as per rate quoted in the contract order issued by the university)

Sr. No.	Date	Spare Parts to be replaced/repaired	Cost of the spare parts	Repair charges, if any	Service charges, if any	Total cost	Remarks

Technical Assistant / Junior Engineer User's Signature Signature of the Service Provider (Stamp)

University Deputy Engineer (Electrical) Controlling Officer

Annexure-D

SANT GADGE BABA AMRAVATI UNIVERSITY

MAINTENANCE CARD

1) Name of Section / Department :

2) Name of the equipment & its make :

3) Equipment Number :

4) Specifications :

5) Manufacturing Year :

6) Date of Purchase of equipment along with bill No.& date :

7) Year of purchase of equipment :

8) Cost of the equipment :

9) Warranty period : from ———————— to ————————

Particulars of Maintenance / repairs of the Equipment.

Sr. No.	Date	Particulars of repairs	Spare parts replaced	Cost of spare parts	Signature of Service Provider	Signature of User

Annexure-E

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI

LIST OF EXPECTED FAULTS THAT MAY OCCUR IN AIR CONDITINERS, WATER COOLERS, WATER PURIFIER & IT'S COMPONENTS

SR. NO.	EXPECTED FAULTS	SERVICE PROVIDER SHALL REPAIR THE FAULTS WITHIN THE NO. OF DAYS
1.	REPLACEMENT OF COMPRESSOR	
	a) Upto 2 Tonne	7 DAYS
	b) Above 2 Tonne	9 DAYS
2.	FAN MOTOR REWINDING/SHAFTING/BUSHING	3 DAYS
3.	LEAK TEASTING & GAS CHARGING	2 DAYS
4.	REPLACEMENT OF CAPACITORS/RELAY/ THERMOSTAT/ELECTRICAL WIRING/ SELECTOR SWITCH/SWING MOTOR/PIN TOP ETC.	**2 DAYS**
5.	REPLACEMENT OF FRONT GRILL OF A/C's	3 DAYS
6.	REPLACEMENT OF BLOWERS (FOR SPLIT & WINDOW TYPE A/C)	4 DAYS
7.	REPLACEMENTOF CONDENSOR FAN BLADE (FOR SPLIT & WINDOW TYPE A/C)	4 DAYS
8.	REPLACEMENT OF BLOWER MOTOR OF INDOOR UNIT OF SPLIT TYPE A/C	5 DAYS
9.	REPLACEMENT OF COOLING COIL OF ALL TYPE OF A/C's & **WATER COOLERS**	5 DAYS
10.	REPLACEMENT OF CONDENSING COIL OF ALL TYPE OF A/C's & **WATER COOLERS**	5 DAYS
11.	REPAIRING OF COOLING COIL OF ALL TYPE OF A/C's & **WATER COOLERS**	2 DAYS
12.	REPAIRING OF CONDENSING COIL OF ALL TYPE OF A/C's & **WATER COOLERS**	2 DAYS
13.	REPLACEMENT OF REMOTE KIT OF ALL TYPE OF A/C's	3 DAYS
14.	REPAIRING OF REMOTE KIT OF ALL TYPE OF A/C's	5 DAYS
15.	**DISMANTLING/ INSTALLATION OF WINDOW TYPE A/C**	**3 DAYS**
16.	**DISMANTLING/ INSTALLATION OF SPLIT A/C**	**3 DAYS**
17.	REPAIRING OF WATER COOLER BODY BASE/FRONT PANEL/SIDE PANELS/DOOR/TRAY ETC.	7 DAYS
18.	REPAINTING OF WATER COOLER	5 DAYS
19.	REPAINTING OF COOLING COIL WITH PUFF INSULATION OF WATER COOLER	5 DAYS
20.	REPLACEMENT OF TAP/DOOR/GASKET/BALL COCK/ DRAIN PIPE/NIPPLE/PIN TOP ETC.	1 DAYS
21.	REPAIRING OF **VOLTAGE** STABILIZERS	4 DAYS
22.	REPLACEMENT OF HOUSING/NIPPLE/PIPE/VALVE SENSOR/U.V.TUBE/CARBON/CANDLE FILTER/NET/ PIN TOP ETC.	**2 DAYS**
23.	REPLACEMENT OF GLASS TUBE	5 DAYS
24.	REPLACEMENT & REPAIRING OF PCB OF **WATER PURIFIER**	**7 DAYS**
25.	ANY OTHER FAULTS	2 DAYS
26.	**REPLACEMENT OF SWING MOTOR**	3 DAYS
27.	**REPLACEMENT OF CONTACTOR/ SINGLE/THREE PHASE**	2 DAYS

EXECUTIVE ENGINEER
ENGINEERING SECTION

Annexure-I

Rates for Services, Repairs and Replacements forAir-Conditioners , Water Coolers, Water Purifier and its's Components.

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit	Cost of the spare Rs.	Repair charges, (if any) Rs.	Service charges Rs.	Total Cost Rs.
1	2	3	3	4	5	6	7
1	Running Capacitor a) 36 mfd b) 40 mfd c) 45 mfd d) 50 mfd e) 60 mfd	 3 3 3 3 3	 Each Each Each Each Each				
2	Starting capacitor a) 60 – 80 mfd b) 80-100 mfd c)100-120 mfd	 3 3 3	 Each Each Each				
3	Relay (no.85001-85004)	2	Each				
4	Thermostat	1	Each				
5	Gas charging a) R-410 b) R-22 c) R-134 d) R-32 e) R-407 f) R-600	 2 2 2 2 2 2	 Kg Kg Kg Kg Kg Kg				
6	Fan motor Rewinding	1	Job				
7	Fan motor shafting and bushing	1	Job				
8	Capillary	1	Feet				
9	Filter	2	Each				
10	Internal wiring / Cable (ISI mark)	1	Feet				
11	Copper piping a) 3/16 " dia b) 1/4 " dia c) 3/8" dia	 0.2 0.2 0.2	 Feet Feet Feet				

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit	Cost of the spare Rs.	Repair charges, (if any) Rs.	Service charges Rs.	Total Cost Rs.
	d) 1/2 ” dia	0.2	Feet				
	e) 5/8” dia	0.2	Feet				
	f) 1/8” dia	0.2	Feet				
	g) 7/8” dia	0.2	Feet				
	h) 3/4” dia	0.2	Feet				
12	Fan motor capacitor						
	a) 1.0 mfd	01	Each				
	b) 1.5 mfd	01	Each				
	c) 2.0 mfd	01	Each				
	d) 2.5 mfd	01	Each				
	e) 3.0 mfd	01	Each				
	f) 4.0 mfd	01	Each				
	g) 5.0 mfd	01	Each				
	h) 6.0 mfd	01	Each				
	i) 8.0 mfd	01	Each				
	j) 10.0 mfd	01	Each				
13	Contactor for split & package type A/c						
	a) Single Phase	0.5	Each				
	b) Three Phase	0.5	Each				
14	Valves, three way with different types	0.5	Each				
15	Remote PCB Repairing (Split / Window A/c.)	0.5	Job				
16	Remote PCB Repairing (Cassette type A/c.)	0.5	Job				
17	Remote PCB Repairing (Package type A/c's)	0.5	Job				
18	Remote for Split / Window types of A/c's	0.3	Each				
19	Remote kit for Package type A/c’s	0.3	Each				
20	Connector	0.25	Each				
21	Fan Blade for a) Split type A/c of various Capacities	0.25	Each				

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit	Cost of the spare Rs.	Repair charges, (if any) Rs.	Service charges Rs.	Total Cost Rs.
	b) Window type A/c of various Capacities	0.25	Each				
	c) Package type A/c of various Capacities	0.25	Each				
	d) Water Coolers of various Capacities	0.25	Each				
	e) Cassette type A/c of various capacities	0.25	Each				
22	**Blower motor of various capacities**						
	a) Inverter type A.C.	0.25	Each				
	b) Package type A.C.	0.25	Each				
	c) Cassette type A.C.	0.25	Each				
	d) Split type A.C.	0.25	Each				
	e) Window type A.C.	0.25	Each				
	f) Tower type A.C.	0.25	Each				
23	Repairing of cooling coil of various Capacities						
	a) Inverter type A.C.	0.3	Job				
	b) Package type A.C.	0.3	Job				
	c) Cassette type A.C.	0.3	Job				
	d) Split type A.C.	0.3	Job				
	e) Window type A.C.	0.3	Job				
	f) Tower type A.C.	0.3	Job				
24	Repairing of Condensing coil of various Capacities	0.3	Job				
25	Cooling coil for window type A/c						
	a) 1.5 Tonne	0.2	Each				
	b) 2.0 Tonne	0.2	Each				
26	Cooling coil for Split type A/c						
	a) 1.5 Tonne	0.2	Each				
	b) 2.0 Tonne	0.2	Each				
	c) 3.0 Tonne	0.2	Each				
27	Cooling coil for cassette type A/c						
	a) 2.0 Tonne	0.2	Each				

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit	Cost of the spare Rs.	Repair charges, (if any) Rs.	Service charges Rs.	Total Cost Rs.
	b) 3.0 Tonne c) 4.0 Tonne	0.2 0.2	Each Each				
28	Cooling coil for Package type A/c a) 4.2 Tonne b) 5.5 Tonne c) 8.5 Tonne d) 11.0 Tonne	 0.2 0.2 0.2 0.2	 Each Each Each Each				
29	Condensing coil for A/c a) 1.5 Tonne b) 2.0 Tonne c) 4.2 Tonne d) 5.5 Tonne e) 8.5 Tonne f) 11.0 Tonne	 0.2 0.2 0.2 0.2 0.2 0.2	 Each Each Each Each Each Each				
30	Condensing coil for Water Coolers a) 30 ltrs capacity b) 40 ltrs capacity c) 80 ltrs capacity d) 120 ltrs capacity e) 150 - 240 ltrs capacity f) 240 - 400 ltrs capacity	 0.2 0.2 0.2 0.2 0.2 0.2	 Each Each Each Each Each Each				
31	Puff insulation for Water Coolers	0.2	Job				
32	Door Gasket for Water Cooler of various capacities	0.3	Running Feet				
33	Painting of water cooler body	0.3	Job				
34	Water cooler drainage tray	0.3	Each				
35	Repairs of water cooler of different capacities. a) Top door b) Front panel c) Side panels d) Back panel	 0.3 0.3 0.3 0.3	 Job Job Job Job				

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit	Cost of the spare Rs.	Repair charges, (if any) Rs.	Service charges Rs.	Total Cost Rs.
36	Repairing of water cooler base / frame	0.3	Job				
37	Stainless steel Tap push type (Front & Upper Type)	0.5	Each				
38	Repairs of voltage stabilizers with different capacities a) 4 KVA b) 5 KVA	 0.3 0.3	 Job Job				
39	Electric cable wire a) 2.5 square mm. b) 4 square mm.	 0.2 0.2	 Feet Feet				
40	Over load protector for water cooler	0.5	Each				
41	Transportation (to & fro) (University Campus to Workshop and vice versa)	0.2	Job				
42	Heatlon sheet (Felt) with cotton tape	0.5	Mtrs				
43	Heatlon pipe with cotton tape of required size	0.5	Mtrs				
44	Selector Switch for window A/c's	0.2	Each				
44	Reverse Osmosis (R.O.) a) Booster pump (i) 24 Watt (ii) 36 Watt b) S.M.P.S. i) 24 Watt ii) 36 Wattt c) Solenoid valve i) 24 Watt	 0.2 0.2 0.5 0.5 0.5	 Each Each Each Each Each				

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit	Cost of the spare Rs.	Repair charges, (if any) Rs.	Service charges Rs.	Total Cost Rs.
	ii) 36 Wattt	0.5	Each				
	d) Membrane Pack open	0.5	Each				
	e) Membrane Housing	0.2	Each				
	f) Ball clock switch	0.1	Each				
	g) R.O. Pipe						
	i) ¼ inch	0.1	Mtr				
	ii) 3/8 inch	0.1	Mtr				
	h) Recarbon filter	0.5	Each				
	i) Sediment filter	0.5	Each				
	j) R.O. Nipple						
	i) ¼ inch	0.2	Each				
	ii) 3/8 inch	0.2	Each				
	k) Alkaline filter 450 FR	0.5	Each				
	l) UV filter	0.5	Each				
	m) UF filter	0.5	Each				
	n) Redus						
	i) ¼ inch	0.2	Each				
	ii) 3/8 inch	0.2	Each				
45	Swing motor for indoor unit						
	a) Split type A/c	0.3	Each				
	b) cassette type A/c	0.3	Each				
	c) Tower type A/c	0.3	Each				

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit	Cost of the spare Rs.	Repair charges, (if any) Rs.	Service charges Rs.	Total Cost Rs.
46	Installation charges for air-conditioner						
	a) Window A/c's of all types & capacities	0.2	Job				
	b) Multisplit A/c's of all types & capacities	0.2	Job				
	c) Single split A/c's of all types & capacities	0.2	Job				
	d) Casssette A/c's of all types & capacities	0.2	Job				
	e) Package A/c's of all types & capacities	0.2	Job				
	f) Tower A/c's of all types & capacities	0.2	Job				
47	Brazing Rods	0.5	Dozen				
48	Blower for Indoor units with different capacities						
	(1) Split & Window						
	a) 1.5 Tr.	0.2	Job				
	b) 2.0 Tr.	0.2	Job				
	(2) Tower & Cassette A/c.						
	a) 3.0 Tr.	0.2	Job				
	b) 4.0 Tr	0.2	Job				
	(3) Package A/c.						
	a) 4.2 Tr	0.2	Job				
	b) 5.5 Tr.	0.2	Job				
	c) 7.5 Tr	0.2	Job				
	d) 8.5 Tr	0.2	Job				
	e) 11.0 Tr.	0.2	Job				
49	Ball cock for water cooler ½"	1	Each				
50	Stainless Steel Nipple for water cooler ½"	0.5	Mtr				
51	P.V.C. Drain pipe for water cooler 1"	1	Mtr				
52	P.V.C. overflow pipe for water cooler ½"	1	Mtr				
53	Pin top 16 A.	0.5	Each				

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit	Cost of the spare Rs.	Repair charges, (if any) Rs.	Service charges Rs.	Total Cost Rs.
54	Plug sockets 6A	0.5	Each				
55	Switch 6A.	0.5	Each				
56	Plug socket 16A.	0.5	Each				
57	Carbon Filter	1	Each				
58	Candle Filter	2	Each				
59	Ultra Violet Tube	0.5	Each				
60	Holder for Ultra Violet Tube	0.25	Each				
61	PCB Repair	1	Job				
62	Sensor	0.5	Each				
63	½ inch PVC pipe	1	Per feet				
64	½ inch PVC Hose Pipe	1	Per feet				
65	Solenoid volve	0.5	Each				
66	Glass Tube for Water Purifier	1	Each				
67	Nipple PVC ½ inch	0.5	Each				
68	**REPLACEMENT OF COMPRESSOR FOR VARIOUS AIRCONDITIONERS**						
	i) Reciprocating type						
	a) 1.0 Tonne	0.2	Each				
	b) 1.5 Tonne	0.2	Each				
	c) 2.0 Tonne	0.2	Each				

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit	Cost of the spare Rs.	Repair charges, (if any) Rs.	Service charges Rs.	Total Cost Rs.
	ii) Scroll type						
	a) 1.0 Tonne	0.2	Each				
	b) 1.5 Tonne	0.2	Each				
	c) 2.0 Tonne	0.2	Each				
	d) 5.5 Tonne Ductable Scroll Type	0.2	Each				
	e) 8.5 Tonne Ductable Scroll Type	0.2	Each				
	iii) Package type						
	a) 4.2 Tonne	0.2	Each				
	b) 5.5 Tonne	0.2	Each				
	c) 7.5 Tonne	0.2	Each				
	d) 8.5 Tonne	0.2	Each				
	e) 11.0 Tonne	0.2	Each				
	iv) Tower type						
	a) 4.2 Tonne	0.2	Each				
	(USHA / VOLTAS / VIDEOCON / CARRIER / KIRLOSKAR COPELAND / BLUE STAR / LG)						
69	**REPLACEMENT OF COMPRESSOR FOR VARIOUS WATER COOLERS**						
	a) 40/80 litres capacity	0.25	Each				
	b) 120/150 litres capacity	0.25	Each				
	c) 150 / 240 litres capacity	0.25	Each				
	d) 240/400 litres capacity	0.25	Each				
	(VOLTAS / TUSHAR / BLUE STAR / USHA)						

	Inverter A/C 1.5 Tr & 2.0 Tr.						
	a) Indoor						
	i) Indoor Motor DC.	0.2	Each				
	ii) Swing Motor DC	0.2	Each				
	iii) PCB indoor DC	0.2	Each				
	iv) Coil Sensor	0.2	Each				
	v) Room Sensor	0.2	Each				
	vi) Heating coil for indoor unit	0.2	Each				
	b) Outdoor						
	i) PCB	0.2	Each				
	ii) Coil Sensor	0.2	Each				
	iii) Pipe Sensor	0.2	Each				
	iv) Compressor Sensor	0.2	Each				
	v) Reactor	0.2	Each				
	vi) Fan motor DC	0.2	Each				
	Casseettee A/C.						
	a) Indoor						
	i) Swing Set 4.0 Motor	0.2	Each				
	ii) Fan Motor	0.2	Each				
	iii) Fan Motor Blower	0.2	Each				
	iv) Coil Sensor	0.2	Each				
	v) Room Sensor	0.2	Each				
	vi) PCB	0.2	Each				
	vii) Water level motor	0.2	Each				
	viii) Water level sensor	0.2	Each				
	ix) Cut out relay	0.2	Each				
	b) Outdoor						
	i) PCB	0.2	Each				
	ii) Coil Sensor	0.2	Each				

	iii) Pipe Sensor	0.2	Each				
	iv) Cut out relay	0.2	Each				
	Cyclojet Model A/C. Outdoor						
	i) Fan motor water proof	0.2	Each				
	ii) Fan motor blade	0.2	Each				
	iii) PCB	0.2	Each				
	iv) Cut out relay	0.2	Each				
	Package A/C.						
	a) Dryer filter						
	i) 5/8 inch	0.2	Each				
	ii) 3/8 inch	0.2	Each				
	iii) 3/4 inch	0.2	Each				
	b) Expansion Valve	0.2	Each				
	c) Three Phase Scanner	0.2	Each				
	d) L.P. H.P. switch	0.2	Each				

70	Checking & servicing of the units (given below as a & b) shall be done with an entry in the maintenance card (Annexure D) & complaint Register (Annexure A). Preventive maintenance shall consist the following – i) Complete servicing of unit with oiling & gre of moving parts ii) Cleaning of Air filter iii) Cleaning of evaporator coil iv) Cleaning of condensor coil with the help of blower & water as required v) Leakage testing of refrigeration line vi) Checking & adjusting controls such as overl relay, thermostat, expansion valve etc. vii) Checking & tightening of electrical connecti switchgears / controls & cleaning the strips connectors/contactors/ relay etc. viii) Complete system checking inview of mainta desired temperature.						
	(a) Airconditioners (Checking & Servicing – Half yearly)	02	Job				
	(b) Water cooler & water purifiers (Checking & Servcing- Quarterly)	04	Job				

Stamp

Signature of Service Provider

Frequency Chart.

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit
1	2	3	4
1	Running Capacitor a) 36 mfd b) 40 mfd c) 45 mfd d) 50 mfd e) 60 mfd	 3 3 3 3 3	 Each Each Each Each Each
2	Starting capacitor a) 60 – 80 mfd b) 80-100 mfd c)100-120 mfd	 3 3 3	 Each Each Each
3	Relay (no.85001-85004)	2	Each
4	Thermostat	1	Each
5	Gas charging a) R-410 b) R-22 c) R-134 d) R-32 e) R-407 f) R-600	 2 2 2 2 2 2	 Kg Kg Kg Kg Kg Kg
6	Fan motor Rewinding	1	Job
7	Fan motor shafting and bushing	1	Job
8	Capillary	1	Feet
9	Filter	2	Each
10	Internal wiring / Cable (ISI mark)	1	Feet
11	Copper piping a) 3/16 ” dia b) 1/4 ” dia c) 3/8” dia d) 1/2 ” dia	 0.2 0.2 0.2 0.2	 Feet Feet Feet Feet

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit
	e) 5/8" dia	0.2	Feet
	f) 1/8" dia	0.2	Feet
	g) 7/8" dia	0.2	Feet
	h) 3/4" dia	0.2	Feet
12	Fan motor capacitor		
	a) 1.0 mfd	01	Each
	b) 1.5 mfd	01	Each
	c) 2.0 mfd	01	Each
	d) 2.5 mfd	01	Each
	e) 3.0 mfd	01	Each
	f) 4.0 mfd	01	Each
	g) 5.0 mfd	01	Each
	h) 6.0 mfd	01	Each
	i) 8.0 mfd	01	Each
	j) 10.0 mfd	01	Each
13	Contactor for split & package type A/c		
	a) Single Phase	0.5	Each
	b) Three Phase	0.5	Each
14	Valves, three way with different types	0.5	Each
15	Remote PCB Repairing (Split / Window A/c.)	0.5	Job
16	Remote PCB Repairing (Cassette type A/c.)	**0.5**	**Job**
17	Remote PCB Repairing (Package type A/c's)	0.5	Job
18	Remote for Split / Window types of A/c's	0.3	Each
19	Remote kit for Package type A/c's	0.3	Each
20	Connector	0.25	Each
21	Fan Blade for		
	a) Split type A/c of various Capacities	0.25	Each
	b) Window type A/c of various Capacities	0.25	Each
	c) Package type A/c of various Capacities	0.25	Each

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit
	d) Water Coolers of various Capacities	0.25	Each
	e) Cassette type A/c of various capacities	0.25	Each
22	**Blower motor of various capacities**		
	a) Inverter type A.C.	0.25	Each
	b) Package type A.C.	0.25	Each
	c) Cassette type A.C.	0.25	Each
	d) Split type A.C.	0.25	Each
	e) Window type A.C.	0.25	Each
	f) Tower type A.C.	0.25	Each
23	Repairing of cooling coil of various Capacities		
	a) Inverter type A.C.	0.3	Job
	b) Package type A.C.	0.3	Job
	c) Cassette type A.C.	0.3	Job
	d) Split type A.C.	0.3	Job
	e) Window type A.C.	0.3	Job
	f) Tower type A.C.	0.3	Job
24	Repairing of Condensing coil of various Capacities	0.3	Job
25	Cooling coil for window type A/c		
	a) 1.5 Tonne	0.2	Each
	b) 2.0 Tonne	0.2	Each
26	Cooling coil for Split type A/c		
	a) 1.5 Tonne	0.2	Each
	b) 2.0 Tonne	0.2	Each
	c) 3.0 Tonne	0.2	Each
27	Cooling coil for cassette type A/c		
	a) 2.0 Tonne	0.2	Each
	b) 3.0 Tonne	0.2	Each
	c) 4.0 Tonne	0.2	Each
28	Cooling coil for Package type A/c		
	a) 4.2 Tonne	0.2	Each
	b) 5.5 Tonne	0.2	Each

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit
	c) 8.5 Tonne d) 11.0 Tonne	0.2 0.2	Each Each
29	Condensing coil for A/c a) 1.5 Tonne b) 2.0 Tonne c) 4.2 Tonne d) 5.5 Tonne e) 8.5 Tonne f) 11.0 Tonne	 0.2 0.2 0.2 0.2 0.2 0.2	 Each Each Each Each Each Each
30	Condensing coil for Water Coolers a) 30 ltrs capacity b) 40 ltrs capacity c) 80 ltrs capacity d) 120 ltrs capacity e) 150 - 240 ltrs capacity f) 240 - 400 ltrs capacity	 0.2 0.2 0.2 0.2 0.2 0.2	 Each Each Each Each Each Each
31	Puff insulation for Water Coolers	0.2	Job
32	Door Gasket for Water Cooler of various capacities	0.3	Running Feet
33	Painting of water cooler body	0.3	Job
34	Water cooler drainage tray	0.3	Each
35	Repairs of water cooler of different capacities. a) Top door b) Front panel c) Side panels d) Back panel	 0.3 0.3 0.3 0.3	 Job Job Job Job
36	Repairing of water cooler base / frame	0.3	Job
37	Stainless steel Tap push type (Front & Upper Type)	0.5	Each
38	Repairs of voltage stabilizers with different capacities a) 4 KVA b) 5 KVA	 0.3 0.3	 Job Job
39	Electric cable wire		

Sr. No.	Name of spares in Air conditioner , Water Coolers & Water Purifier.	Expected Frequency of failure/ year	Unit
	a) 2.5 square mm. b) 4 square mm.	0.2 0.2	Feet Feet
40	Over load protector for water cooler	0.5	Each
41	Transportation (to & fro) (University Campus to Workshop and vice versa)	0.2	Job
42	Heatlon sheet (Felt) with cotton tape	0.5	Mtrs
43	Heatlon pipe with cotton tape of required size	0.5	Mtrs
44	Selector Switch for window A/c's	0.2	Each

44	Reverse Osmosis (R.O.)		
	a) Booster pump		
	(i) 24 Watt	0.2	Each
	(ii) 36 Watt	0.2	Each
	b) S.M.P.S.		
	i) 24 Watt	0.5	Each
	ii) 36 Wattt	0.5	Each
	c) Solenoid valve		
	i) 24 Watt	0.5	Each
	ii) 36 Wattt	0.5	Each
	d) Membrane Pack open	0.5	Each
	e) Membrane Housing	0.2	Each
	f) Ball clock switch	0.1	Each
	g) R.O. Pipe		
	i) ¼ inch	0.1	Mtr
	ii) 3/8 inch	0.1	Mtr
	h) Recarbon filter	0.5	Each
	i) Sediment filter	0.5	Each
	j) R.O. Nipple		
	i) ¼ inch	0.2	Each
	ii) 3/8 inch	0.2	Each
	k) Alkaline filter 450 FR	0.5	Each
	l) UV filter	0.5	Each
	m) UF filter	0.5	Each
	n) Redus		

	i) ¼ inch ii) 3/8 inch	0.2 0.2	Each Each
45	Swing motor for indoor unit a) Split type A/c b) cassette type A/c c) Tower type A/c	 0.3 0.3 0.3	 Each Each Each
46	Installation charges for air-conditioner a) Window A/c's of all types & capacities b) Multisplit A/c's of all types & capacities c) Single split A/c's of all types & capacities d) Casssette A/c's of all types & capacities e) Package A/c's of all types & capacities f) Tower A/c's of all types & capacities	 0.2 0.2 0.2 0.2 0.2 0.2	 Job Job Job Job Job Job
47	Brazing Rods	0.5	Dozen
48	Blower for Indoor units with different capacities **(1) Split & Window** a) 1.5 Tr. b) 2.0 Tr. **(2) Tower & Cassette A/c**. a) 3.0 Tr. b) 4.0 Tr **(3) Package A/c**. a) 4.2 Tr b) 5.5 Tr. c) 7.5 Tr d) 8.5 Tr e) 11.0 Tr.	 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	 Job Job Job Job Job Job Job Job Job
49	Ball cock for water cooler ½"	1	Each

50	Stainless Steel Nipple for water cooler ½"	0.5	Mtr
51	P.V.C. Drain pipe for water cooler 1"	1	Mtr
52	P.V.C. overflow pipe for water cooler ½"	1	Mtr
53	Pin top 16 A.	0.5	Each
54	Plug sockets 6A	0.5	Each
55	Switch 6A.	0.5	Each
56	Plug socket 16A.	0.5	Each
57	Carbon Filter	1	Each
58	Candle Filter	2	Each
59	Ultra Violet Tube	0.5	Each
60	Holder for Ultra Violet Tube	0.25	Each
61	PCB Repair	1	Job
62	Sensor	0.5	Each
63	½ inch PVC pipe	1	Per feet
64	½ inch PVC Hose Pipe	1	Per feet
65	Solenoid volve	0.5	Each
66	Glass Tube for Water Purifier	1	Each
67	Nipple PVC ½ inch	0.5	Each
68	**REPLACEMENT OF COMPRESSOR FOR VARIOUS AIRCONDITIONERS**		
	i) Reciprocating type a) 1.0 Tonne b) 1.5 Tonne	 0.2 0.2	 Each Each

	c) 2.0 Tonne	0.2	Each
	ii) Scroll type		
	a) 1.0 Tonne	0.2	Each
	b) 1.5 Tonne	0.2	Each
	c) 2.0 Tonne	0.2	Each
	d) 5.5 Tonne Ductable Scroll Type	0.2	Each
	e) 8.5 Tonne Ductable Scroll Type	0.2	Each
	iii) Package type		
	a) 4.2 Tonne	0.2	Each
	b) 5.5 Tonne	0.2	Each
	c) 7.5 Tonne	0.2	Each
	d) 8.5 Tonne	0.2	Each
	e) 11.0 Tonne	0.2	Each
	iv) Tower type		
	a) 4.2 Tonne	0.2	Each
	(USHA / VOLTAS / VIDEOCON / CARRIER / KIRLOSKAR COPELAND / BLUE STAR / LG)		
69	**REPLACEMENT OF COMPRESSOR FOR VARIOUS WATER COOLERS**		
	a) 40/80 litres capacity	0.25	Each
	b) 120/150 litres capacity	0.25	Each
	c) 150 / 240 litres capacity	0.25	Each
	d) 240/400 litres capacity	0.25	Each
	(VOLTAS / TUSHAR / BLUE STAR / USHA)		
	Inverter A/C 1.5 Tr & 2.0 Tr.		
	a) Indoor		
	i) Indoor Motor DC.	0.2	Each
	ii) Swing Motor DC	0.2	Each
	iii) PCB indoor DC	0.2	Each
	iv) Coil Sensor	0.2	Each
	v) Room Sensor	0.2	Each
	vi) Heating coil for indoor unit	0.2	Each
	b) Outdoor		

	i) PCB	0.2	Each
	ii) Coil Sensor	0.2	Each
	iii) Pipe Sensor	0.2	Each
	iv) Compressor Sensor	0.2	Each
	v) Reactor	0.2	Each
	vi) Fan motor DC	0.2	Each
	Casseettee A/C.		
	a) Indoor		
	i) Swing Set 4.0 Motor	0.2	Each
	ii) Fan Motor	0.2	Each
	iii) Fan Motor Blower	0.2	Each
	iv) Coil Sensor	0.2	Each
	v) Room Sensor	0.2	Each
	vi) PCB	0.2	Each
	vii) Water level motor	0.2	Each
	viii) Water level sensor	0.2	Each
	ix) Cut out relay	0.2	Each
	b) Outdoor		
	i) PCB	0.2	Each
	ii) Coil Sensor	0.2	Each
	iii) Pipe Sensor	0.2	Each
	iv) Cut out relay	0.2	Each
	Cyclojet Model A/C.		
	Outdoor		
	i) Fan motor water proof	0.2	Each
	ii) Fan motor blade	0.2	Each
	iii) PCB	0.2	Each
	iv) Cut out relay	0.2	Each
	Package A/C.		
	a) Dryer filter		

	i) 5/8 inch ii) 3/8 inch iii) 3/4 inch b) Expansion Valve c) Three Phase Scanner d) L.P. H.P. switch	0.2 0.2 0.2 0.2 0.2 0.2	Each Each Each Each Each Each
70	Checking & servicing of the units (given below in a & b) shall be done with an entry in the maintenance card (Annexure D) & complaint Register (Annexure A). Preventive maintenance shall consist the following – i) Complete servicing of unit with oiling & greasing of moving parts ii) Cleaning of Air filter iii) Cleaning of evaporator coil iv) Cleaning of condensor coil with the help of blower & water as required v) Leakage testing of refrigeration line vi) Checking & adjusting controls such as overload relay, thermostat, expansion valve etc. vii) Checking & tightening of electrical connection of switchgears / controls & cleaning the strips of connectors/contactors/ relay etc. viii) Complete system checking inview of maintaining desired temperature.		
	(a) Airconditioners (Checking & Servicing – Half yearly)	02	Job
	(b) Water cooler & water purifiers (Checking & Servcing- Quarterly)	04	Job

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