

(Checklists for servicing / maintenance of R&AC systems is given below and the same shall be followed by the contractor while servicing / maintenance of R&AC systems)

CHECK LISTS FOR
WINDOW AC UNITS

ANNUAL MAINTENANCE OF NON-INVERTER TYPE WINDOW AC UNITS

Date:

Facility Name:

Indoor unit Sl. No:

Room / location:

Outdoor unit Sl. No:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Logicool

Type of AC unit: NON-INVERTER

Capacity: 1.5 TR/ 2.0 TR TR

Asset No:

Model:

Refrigerant: R-22 / R-32 / R-410a

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
01	Clean cooling coil (Water wash)	Cle /Dir			11	Remote	Nor / Def	
02	Clean Air filters with water	Cle /Dir			12	Any tinkering / painting required	Yes / No	
03	Clean condenser coil (Water wash)	Cle /Dir			13	Voltage	200 - 240	
04	Check Indoor swing motor	Nor / Def			14	Compressor run capacitor MFD	55 ± 5 %	
05	Indoor PC Board condition	Nor / Def		50 ± 5 %				
06	Temperature sensor (thermistor)	Nor / Def		45 ± 5 %				
07	Indoor unit fan capacitor in MFD	1.5 ± 5 %			15	Current drawn by compressor	A	
		2.5 ± 5 %			16	Current drawn by fan motor	A	
					17	Current drawn by total unit	A	
08	Lubricate fan motor bearings.	Lubricated			18	Check grill Temperature at around 22-26°C Room temperature.	13 - 17°C	
09	Fan motor capacitor MFD	MFD			19	Room Temperature °C	24 ± 2°C	
10	Check compressor contactor	Nor / Def			20	Ambient temperature		

Remarks:

EIC/Engineer
Facility

Engineer / Technical Assistant
AC Systems, CMG

QA, AC
Contract Agency

Tech., AC
Contract Agency

HALF YEARLY MAINTENANCE OF NON-INVERTER TYPE WINDOW AC UNITS

Date:

Facility Name:

Room / location:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Model:

Unit Current:

Indoor unit Sl. No:

Outdoor unit Sl. No:

Type of AC unit: NON-INVERTER

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values
01	Clean cooling coil (Water wash)	Cle /Dir	
02	Clean Air filters with water	Cle /Dir	
03	Clean condenser coil (Water wash)	Cle /Dir	
04	Check Indoor swing motor	Nor / Def	
05	Indoor PC Board condition	Nor / Def	
06	Temperature sensor (thermistor)	Nor / Def	
07	Indoor unit fan capacitor in MFD	1.5 ± 5 %	
		2.5 ± 5 %	
08	Lubricate fan motor bearings.	Lubricated	
09	Fan motor capacitor MFD	MFD	
10	Check compressor contactor	Nor / Def	

Sl. No	Description	Accepted Range	Obtained Values
11	Remote	Nor / Def	
12	Any tinkering / painting required	Yes / No	
13	Voltage	200 - 240	
14	Compressor run capacitor MFD	55 ± 5 %	
		50 ± 5 %	
		45 ± 5 %	
15	Current drawn by compressor	A	
16	Current drawn by fan motor	A	
17	Current drawn by total unit	A	
18	Check grill Temperature at around 22-26°C Room temperature.	13 - 17°C	
19	Room Temperature °C	24 ± 2°C	
20	Ambient temperature		

Remarks:

EIC/Engineer
Facility

Engineer / Technical Assistant
AC Systems, CMG

QA, AC
Contract Agency

Tech., AC
Contract Agency

QUARTERLY MAINTENANCE OF NON-INVERTER TYPE WINDOW AC UNITS

Date:

Facility Name:

Room / location:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Model:

Unit Current:

Indoor unit Sl. No:

Outdoor unit Sl. No:

Type of AC unit: NON-INVERTER

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
01	Clean Air filters	Cle /Dir			05	Voltage	200 - 240	
02	Check Indoor swing motor	Nor / Def			06	Check grill Temperature at around 22-26°C Room temperature.	13 - 17°C	
03	Check Remote	Nor / Def			07	Room Temperature °C	24 ± 2°C	
04	Polishing of decorative cabinet and grills.	Cleaned			08	Current drawn by total unit	A	

Remarks:

EIC/Engineer
Facility

Engineer / Technical Assistant
AC Systems, CMG

QA, AC
Contract Agency

Tech., AC
Contract Agency

CHECK LISTS FOR
SPLIT AC UNITS (NON-INVERTER TYPE)
CAPACITY: 1.0TR/1.5TR/2.0TR

ANNUAL MAINTENANCE OF NON-INVERTER TYPE SPLIT AC UNITS

Date:

Facility Name:

Room / location:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Model:

Unit Current:

Indoor unit Sl. No:

Outdoor unit Sl. No:

Type of AC unit: NON-INVERTER

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values
01	Clean cooling coil (Water wash)	Cle /Dir	
02	Clean Air filters with water	Cle /Dir	
03	Clean condenser coil (Water wash)	Cle /Dir	
04	Clean drain hose & Drain pipe	Nor / Def	
05	Check Indoor swing motor	Nor / Def	
06	Indoor PC Board condition	Nor / Def	
07	Temperature sensor (thermistor)	Nor / Def	
08	Indoor unit fan capacitor in MFD (Check the capacitance after removed from PCB	1.5 ± 5 %	
		2.5 ± 5 %	
09	Lubricate Cond. fan motor bearings.	Lubricated	
10	Indoor unit 65-80mm dia. opening should be closed with white cement	Closed	
11	Condenser fan motor capacitor MFD	MFD	
12	Check copper pipe Insulation	Nor / Def	
13	Remote	Nor / Def	

Sl. No	Description	Accepted Range	Obtained Values
14	Voltage	200 - 240	
15	Compressor run capacitor MFD	60 ± 5 %	
		50 ± 5 %	
		55 ± 5 %	
		45 ± 5 %	
		35 ± 5 %	
16	Current drawn by compressor	A	
17	Current drawn by indoor fan motor	A	
18	Current drawn by outdoor fan motor	A	
19	Current drawn by total unit	A	
20	Check grill Temperature at around 22-26°C Room temperature.	13 - 17°C	
21	Room Temperature °C	24 ± 2°C	
22	Ambient temperature		
23	Any tinkering / painting required	Yes / No	

Remarks:

EIC/Engineer
Facility

Engineer / Technical Assistant
AC Systems, CMG

QA, AC
Contract Agency

Tech., AC
Contract Agency

HALF YEARLY MAINTENANCE OF NON-INVERTER TYPE SPLIT AC UNITS

Date:

Facility Name:

Room / location:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Model:

Unit Current:

Indoor unit Sl. No:

Outdoor unit Sl. No:

Type of AC unit: NON-INVERTER

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values
01	Clean cooling coil (Water wash)	Cle /Dir	
02	Clean Air filters with water	Cle /Dir	
03	Clean condenser coil (Water wash)	Cle /Dir	
04	Clean drain hose & Drain pipe	Nor / Def	
05	Check Indoor swing motor	Nor / Def	
06	Indoor PC Board condition	Nor / Def	
07	Temperature sensor (thermistor)	Nor / Def	
08	Lubricate Cond. fan motor bearings.	Lubricated	
09	Condenser fan motor capacitor MFD	MFD	
10	Check copper pipe Insulation	Nor / Def	
11	Remote	Nor / Def	
12	Indoor unit 65-80mm dia. opening should be closed with white cement	Closed	
13	Voltage	200 - 240	
14	Any tinkering / painting required	Yes / No	

Sl. No	Description	Accepted Range	Obtained Values
15	Compressor run capacitor MFD	60 ± 5 %	
		50 ± 5 %	
		55 ± 5 %	
		45 ± 5 %	
		35 ± 5 %	
16	Current drawn by compressor	A	
17	Current drawn by indoor fan motor	A	
18	Current drawn by outdoor fan motor	A	
19	Current drawn by total unit	A	
20	Check grill Temperature at around 22-26°C Room temperature.	13 - 17°C	
21	Room Temperature °C	24 ± 2°C	
22	Ambient temperature		

Remarks:

EIC/Engineer
Facility

Engineer / Technical Assistant
AC Systems, CMG

QA, AC
Contract Agency

Tech., AC
Contract Agency

QUARTERLY MAINTENANCE OF NON-INVERTER TYPE SPLIT AC UNITS

Date:	
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Facility Name:

Room / location:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Model:

Unit Current:

Indoor unit Sl. No:

Outdoor unit Sl. No:

Type of AC unit: NON-INVERTER

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
01	Clean Air filters	Cle /Dir			06	Voltage	200 - 240	
02	Check drain hose pipe	Nor / Def			07	Check grill Temperature at around 22-26°C Room temperature.	13 - 17°C	
03	Check Indoor swing motor	Nor / Def			08	Room Temperature °C	24 ± 2°C	
04	Check Remote	Nor / Def			09	Current drawn by total unit	A	
05	Polishing of decorative cabinets and grills.	Cleaned			10	Indoor unit 65-80mm dia. opening should be closed with white cement	Closed	

Remarks:

EIC/Engineer
Facility

Engineer / Technical Assistant
AC Systems, CMG

QA, AC
Contract Agency

Tech., AC
Contract Agency

CHECK LISTS FOR
SPLIT AC UNITS (INVERTER TYPE)
CAPACITY: 1.5TR / 2.0TR

ANNUAL MAINTENANCE OF INVERTER TYPE SPLIT AC UNITS

Date:

Facility Name:

Room / location:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Model:

Unit Current:

Indoor unit Sl. No:

Outdoor unit Sl. No:

Type of AC unit: INVERTER

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
01	Clean cooling coil (Water wash)	Cle /Dir			13	Remote	Nor / Def	
02	Clean Air filters with water	Cle /Dir			14	Voltage	200 - 240	
03	Clean condenser coil (Water wash)	Cle /Dir			15	Outdoor PC Board condition	Nor / Def	
04	Clean drain hose & Drain pipe	Nor / Def			16	Outdoor unit sensors condition	Nor / Def	
05	Check Indoor swing motor	Nor / Def			17	Current drawn by compressor	A	
06	Indoor PC Board condition	Nor / Def			18	Current drawn by indoor fan motor	A	
07	Indoor unit sensors condition	Nor / Def			19	Current drawn by outdoor fan motor	A	
08	Indoor unit fan capacitor in MFD (Check the capacitance after removed from PCB) If available	1.5 ± 5 %			20	Current drawn by total unit	A	
		2.5 ± 5 %			21	Check grill Temperature at around 22-26°C Room temperature.	13 - 17°C	
09	Lubricate outdoor fan motor bearings.	Lubricated			22	Room Temperature °C	24 ± 2°C	
10	Check copper pipe Insulation	Nor / Def			23	Indoor unit 65-80mm dia. opening should be closed with white cement	Closed	
11	Lubricate Cond. fan motor bearings.							
12	Any tinkering / painting required	Yes / No						

Remarks:

EIC/Engineer
Facility

Engineer / Technical Assistant
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HALF YEARLY MAINTENANCE OF INVERTER TYPE SPLIT AC UNITS

Date:

Facility Name:

Room / location:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Model:

Unit Current:

Indoor unit Sl. No:

Outdoor unit Sl. No:

Type of AC unit: INVERTER

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
01	Clean Air filters with water	Cle /Dir			12	Outdoor PC Board condition	Nor / Def	
02	Clean cooling coil if required (Water wash)	Cle /Dir			13	Outdoor unit sensors condition	Nor / Def	
03	Clean condenser coil (Water wash)	Cle /Dir			14	Lubricate Cond. fan motor bearings.		
04	Clean drain hose & Drain pipe	Nor / Def			15	Current drawn by compressor		
05	Check Indoor swing motor	Nor / Def			16	Current drawn by indoor fan motor		
06	Indoor PC Board condition	Nor / Def			17	Current drawn by outdoor fan motor		
07	Indoor unit sensors condition	Nor / Def			18	Current drawn by total unit		
08	Lubricate outdoor fan motor bearings.	Lubricated			19	Check grill Temperature at around 22-26°C Room temperature.	13 - 17°C	
09	Check copper pipe Insulation	Nor / Def			20	Room Temperature °C	24 ± 2°C	
10	Indoor unit 65-80mm dia. opening should be closed with white cement	Closed			21	Remote	Nor / Def	
11	Any tinkering / painting required	Yes / No			22	Voltage	200 - 240	

Remarks:

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Facility

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QUARTERLY MAINTENANCE OF INVERTER TYPE SPLIT AC UNITS

Date:

Facility Name:

Room / location:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Model:

Unit Current:

Indoor unit Sl. No:

Outdoor unit Sl. No:

Type of AC unit: INVERTER

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values
01	Clean Air filters	Cle /Dir	
02	Check drain hose pipe	Nor / Def	
03	Check Indoor swing motor	Nor / Def	
04	VRF indoor PCB board condition	Nor / Def	
05	VRF outdoor PCB board condition	Nor / Def	
06	Check Remote	Nor / Def	

Sl. No	Description	Accepted Range	Obtained Values
07	Voltage	200 - 240	
08	Check grill Temperature at around 22-26°C Room temperature.	13 - 17°C	
09	Room Temperature °C	24 ± 2°C	
10	Current drawn by total unit		
11	Polishing of decorative cabinets and grills.		
12	Indoor unit 65-80mm dia. opening should be closed with white cement		

Remarks:

EIC/Engineer
Facility

Engineer / Technical Assistant
AC Systems, CMG

QA, AC
Contract Agency

Tech., AC
Contract Agency

CHECK LISTS FOR
MULTI SPLIT AC UNITS (NON-INVERTER TYPE)
CAPACITY: 2.0TR TO 3.0TR

ANNUAL MAINTENANCE OF NON-INVERTER TYPE MULTI SPLIT AC UNITS

Date:

Facility Name:

Room / location:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Model:

Unit Current:

Indoor unit Sl. No:

Outdoor unit Sl. No:

Type of AC unit: NON-INVERTER

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values
01	Clean cooling coil 1&2(Water wash)	Cle /Dir	
02	Clean Air filters with water IDU-1&2	Cle /Dir	
03	Clean condenser coil 1&2(Water wash)	Cle /Dir	
04	Clean drain hose & Drain pipe 1&2	Nor / Def	
05	Check Indoor swing motor 1&2	Nor / Def	
06	Indoor PC Board condition IDU-1&2	Nor / Def	
07	Temperature sensor (thermistor)	Nor / Def	
08	Indoor unit 1&2 fan capacitor in MFD (Check the capacitance after removed from PCB)	1.5 ± 5 %	
		2.5 ± 5 %	
09	Lubricate Cond. fan motor bearings.	Lubricated	
10	IDU-1&2 65-80mm dia. opening should be closed with white cement	Closed	
11	Condenser fan motor capacitor MFD	MFD	
12	Copper pipe Insulation for unit 1&2	Nor / Def	
13	Remote	Nor / Def	

Sl. No	Description	Accepted Range	Obtained Values
14	Voltage	200 - 240	
15	Compressor 1&2 run capacitors capacitance in MFD	60 ± 5 %	
		50 ± 5 %	
		55 ± 5 %	
		45 ± 5 %	
		35 ± 5 %	
16	Current drawn by compressor 1&2	A	
17	Current drawn by indoor fan motor 1&2	A	
18	Current drawn by outdoor fan motor	A	
19	Current drawn by total unit	A	
20	Check grill Temperature at around 22-26°C Room temperature (IDU 1&2)	13 - 17°C	
21	Room Temperature °C	24 ± 2°C	
22	Ambient temperature		
23	Any tinkering / painting required	Yes / No	

Remarks:

EIC/Engineer
Facility

Engineer / Technical Assistant
AC Systems, CMG

QA, AC
Contract Agency

Tech., AC
Contract Agency

HALF YEARLY MAINTENANCE OF NON-INVERTER TYPE MULTI SPLIT AC UNITS

Date:

Facility Name:

Room / location:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Model:

Unit Current:

Indoor unit-1&2 Sl. No:

Outdoor unit Sl. No:

Type of AC unit: NON-INVERTER

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values
01	Clean cooling coil 1&2(Water wash)	Cle /Dir	
02	Clean Air filters with water IDU-1&2	Cle /Dir	
03	Clean condenser coil 1&2(Water wash)	Cle /Dir	
04	Clean drain hose & Drain pipe 1&2	Nor / Def	
05	Check Indoor swing motor 1&2	Nor / Def	
06	Indoor PC Board condition IDU-1&2	Nor / Def	
07	Temperature sensor (thermistor)	Nor / Def	
08	Indoor unit 1&2 fan capacitor in MFD (Check the capacitance after removed from PCB)	1.5 ± 5 %	
		2.5 ± 5 %	
09	Lubricate Cond. fan motor bearings.	Lubricated	
10	IDU-1&2 65-80mm dia. opening should be closed with white cement	Closed	
11	Condenser fan motor capacitor MFD	MFD	
12	Copper pipe Insulation for unit 1&2	Nor / Def	
13	Remote	Nor / Def	

Sl. No	Description	Accepted Range	Obtained Values
14	Voltage	200 - 240	
15	Compressor 1&2 run capacitors capacitance in MFD	60 ± 5 %	
		50 ± 5 %	
		55 ± 5 %	
		45 ± 5 %	
		35 ± 5 %	
16	Current drawn by compressor 1&2	A	
17	Current drawn by indoor fan motor 1&2	A	
18	Current drawn by outdoor fan motor	A	
19	Current drawn by total unit	A	
20	Check grill Temperature at around 22-26°C Room temperature (IDU 1&2)	13 - 17°C	
21	Room Temperature °C	24 ± 2°C	
22	Ambient temperature		
23	Any tinkering / painting required	Yes / No	

Remarks:

EIC/Engineer
Facility

Engineer / Technical Assistant
AC Systems, CMG

QA, AC
Contract Agency

Tech., AC
Contract Agency

QUARTERLY MAINTENANCE OF NON-INVERTER TYPE MULTI SPLIT AC UNITS

Date:

Facility Name:

Room / location:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Model:

Unit Current:

Indoor unit Sl. No:

Outdoor unit Sl. No:

Type of AC unit: NON-INVERTER

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
01	Clean Air filters	Cle /Dir			07	Voltage	200 - 240	
02	Check drain hose pipe for unit-1&2	Nor / Def			09	Check grill Temperature at around 22-26°C Room temperature.(INDOOR UNIT-1)	13 - 17°C	
03	Check Indoor swing motor for unit-1&2	Nor / Def			10	Check grill Temperature at around 22-26°C Room temperature.(INDOOR UNIT-1)	13 - 17°C	
04	Check Remote	Nor / Def				Room Temperature °C	24 ± 2°C	
05	Polishing of decorative cabinets and grills.	Cleaned			11	Current drawn by total unit	A	
06	Indoor unit-1, 65-80mm dia. opening should be closed with white cement	Closed			12	Indoor unit-2, 65-80mm dia. opening should be closed with white cement	Closed	

Remarks:

EIC/Engineer
Facility

Engineer / Technical Assistant
AC Systems, CMG

QA, AC
Contract Agency

Tech., AC
Contract Agency

CHECK LISTS FOR
TOWER AC UNITS / VERTICAL SLIM LINE AC UNITS
(FOR THREE PHASE / SINGLE PHASE)

ANNUAL MAINTENANCE OF TOWER AC UNITS CHECK LIST

Date:

Facility Name:

Make:

Model:

S.No:

Capacity: 3.0 TR

Date:

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Unit Current:

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
1.	Clean cooling coil (Water wash)	Cle /Dir			16	Check Suction pressure in PSIG	50 - 75	
2.	Clean Air filters	Clean			17	Voltage (3 Ph)	R: 415	
3.	Clean condenser coil (Water wash)	Cle /Dir		Y: 415				
4.	Clean drain hose pipe	Nor / Def		B: 415				
5.	Check Indoor swing motor	Nor / Def			18	Current drawn by compressor	R:	
6.	Indoor PC Board condition	Nor / Def		Y:				
7.	Check copper pipe Insulation	Nor / Def		B:				
8.	Temperature sensor (thermistor)	Nor / Def			19	Current drawn by indoor blower motor	A	
9.	Condenser fan motor capacitor MFD	6 ± 5% MFD			20	Current drawn by condenser fan motor	A	
10.	Indoor blower Run Capacitor MFD	± 5 % MFD			21	Check grill Temperature at 24°C Room temperature.	13 - 17 °C	
11.	Lubricate outdoor fan motor	Lubricated			22	Room Temperature	24 ± 2°C	
12.	Check compressor contactor	Nor / Def			23	Ambient Temperature		
13.	Check remote condition	Normal			24	Current drawn by total unit	A	
14.	Indoor unit 75-110mm dia. opening should be closed with white cement	Closed			25	Running Condition of total unit	Normal	
15.	Any tinkering / painting required	Yes / No			26	Start / run capacitor capacitance MFD (If compressor single phase)	MFD	

Remarks:

EIC/Engineer
Facility

Engineer / Technical Assistant
AC Systems, CMG

QA, AC
Contract Agency

Tech., AC
Contract Agency

HALF YEARLY MAINTENANCE OF TOWER AC UNITS CHECK LIST

Date:

Facility Name:

Make:

Model:

S.No:

Capacity: 3.0 TR

Date:

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Unit Current:

Sl. No	Description	Accepted Range	Obtained Values	Sl. No	Description	Accepted Range	Obtained Values
1.	Clean cooling coil if required (Water wash)	Cle /Dir		14	Check Suction pressure in PSIG	50 - 75	
2.	Clean Air filters	Clean		15	Voltage (1 Ph)	230V	
3.	Clean condenser coil (Water wash)	Cle /Dir		16	Voltage (3 Ph)	R: 415	
4.	Clean drain hose pipe	Nor / Def				Y: 415	
5.	Check Indoor swing motor	Nor / Def				B: 415	
6.	Indoor PC Board condition	Nor / Def		17	Current drawn by compressor	R:	
7.	Check copper pipe Insulation	Nor / Def				Y:	
8.	Temperature sensor (thermistor)	Nor / Def				B:	
9.	Condenser fan motor capacitor MFD	± 5% MFD		18	Current drawn by indoor blower motor	A	
10.	Lubricate outdoor fan motor	Lubricated		19	Current drawn by condenser fan motor	A	
11.	Check compressor contactor	Nor / Def		20	Check grill Temperature at 24°C Room temperature.	13 - 17 °C	
12.	Check remote condition	Normal		21	Room Temperature	24 ± 2°C	
13.	Indoor unit 75-110mm dia. opening should be closed with white cement	Closed		22	Ambient Temperature		
14	Any tinkering / painting required	Yes / No		23	Current drawn by total unit	A	
				24	Start / run capacitor capacitance MFD (If compressor single phase)	MFD	
				25	Running Condition of total unit	Normal	

Remarks:

EIC/Engineer
Facility

Engineer / Technical Assistant
AC Systems, CMG

QA, AC
Contract Agency

Tech., AC
Contract Agency

QUARTERLY MAINTENANCE OF TOWER AC UNITS CHECK LIST

Date:

Facility Name:

Make:

Model:

S.No:

Capacity: 3.0 TR

Date:

Asset No:

Refrigerant: R-22 / R-32 / R-410a

Unit Current:

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
1.	Clean Air filters	Clean			7	Check grill Temperature at 24°C Room temperature.	13-17 °C	
2.	Check Indoor swing motor	Nor / Def			8	Room Temperature	24±2°C	
3.	Indoor PC Board condition	Nor / Def			9	Ambient Temperature		
4.	Temperature sensor (thermistor)	Nor / Def			10	Running Condition of total unit	Normal	
5.	In door swing motor	Normal			11	Indoor unit 75-110mm dia. opening should be closed with white cement	Closed	
6.	Check remote condition	Normal			12	Current drawn by total unit	A	

Remarks:

EIC/Engineer
Facility

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Contract Agency

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Contract Agency

**CHECK LISTS FOR CASSETTE AC UNITS
(SINGLE PHASE / THREE PHASE)**

ANNUAL MAINTENANCE OF CASSETTE AC UNITS

Date:

Facility Name:

Indoor unit Sl. No:

Room / location:

Outdoor unit Sl. No:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Type of AC unit: NON-INVERTER / INVERTER

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Asset No:

Model:

Refrigerant: R-22 / R-32 / R-410a

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
01	Clean cooling coil (water wash)	Cle /Dir			16	Voltage	R: 415	
02	Clean Air filters	Cle /Dir					Y: 415	
03	Clean condenser coil (water wash)	Cle /Dir					B: 415	
04	Clean drain hose pipe	Nor / Def			17	Compressor run capacitor MFD	55 ± 5 %	
05	Check condensate pump	Nor / Def					50 ± 5 %	
06	Indoor PC Board condition	Nor / Def			18	Check indoor swing motors (4Nos.)	Nor / Def	
07	Temperature sensor (thermistor)	Nor / Def			19	Current drawn by compressor if it is 3 phase	R:	
08	Indoor unit fan capacitor in MFD	1.5 ± 5 %					Y:	
		2.5 ± 5 %					B:	
09	Lubricate Cond. fan motor bearings.	Lubricated			20	Current drawn by compressor	A	
10	Condenser fan motor capacitor MFD				21	Current drawn by indoor motor	A	
11	Check compressor contactor	Nor / Def			22	Current drawn by outdoor motor	A	
12	Check copper pipe Insulation	Nor / Def			23	Current drawn by total unit	A	
13	Remote	Nor / Def			24	Grill Temperature °C	13 - 17	
14	Indoor unit 63-80mm dia. opening should be closed with white cement	Closed			25	Room Temperature °C	24 ± 2	
15	Any tinkering / painting required	Yes / No			26	Ambient temperature		
					27	Voltage (if single phase)	230V	

Remarks:

EIC/Engineer
Facility

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HALF YEARLY MAINTENANCE OF CASSETTE AC UNITS

Date:

Facility Name:

Indoor unit Sl. No:

Room / location:

Outdoor unit Sl. No:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Type of AC unit: NON-INVERTER / INVERTER

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Asset No:

Model:

Refrigerant: R-22 / R-32 / R-410a

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
01	Clean cooling coil (water wash)	Cle /Dir			16	Voltage	R: 415	
02	Clean Air filters	Cle /Dir					Y: 415	
03	Clean condenser coil (water wash)	Cle /Dir					B: 415	
04	Clean drain hose pipe	Nor / Def			17	Compressor run capacitor MFD	55 ± 5 %	
05	Check condensate pump	Nor / Def					50 ± 5 %	
06	Indoor PC Board condition	Nor / Def			18	Check indoor swing motors (4Nos.)	Nor / Def	
07	Temperature sensor (thermistor)	Nor / Def			19	Current drawn by compressor if it is 3 phase	R:	
08	Indoor unit fan capacitor in MFD	1.5 ± 5 %					Y:	
		2.5 ± 5 %					B:	
09	Lubricate Cond. fan motor bearings.	Lubricated			20	Current drawn by compressor	A	
10	Condenser fan motor capacitor MFD				21	Current drawn by indoor motor	A	
11	Check compressor contactor	Nor / Def			22	Current drawn by outdoor motor	A	
12	Check copper pipe Insulation	Nor / Def			23	Current drawn by total unit	A	
13	Remote	Nor / Def			24	Grill Temperature °C	13 - 17	
14	Indoor unit 63-80mm dia. opening should be closed with white cement	Closed			25	Room Temperature °C	24 ± 2	
15	Any tinkering / painting required	Yes / No			26	Ambient temperature		
					27	Voltage (if single phase)	230V	

Remarks:

EIC/Engineer
Facility

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QUARTERLY MAINTENANCE OF CASSETTE AC UNITS

Date:

Facility Name:

Indoor unit Sl. No:

Room / location:

Outdoor unit Sl. No:

Make: Carrier / Voltas / Blue Star/ Hitachi/ Trane/Logicool

Type of AC unit: NON-INVERTER / INVERTER

Capacity: 1.5 TR/ 2.0 TR / 3.0 TR / 4.0 TR

Asset No:

Model:

Refrigerant: R-22 / R-32 / R-410a

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
01	Clean Air filters	Cle /Dir			07	Unit current	R:	
02	Check drain hose pipe	Nor / Def		Y:				
03	Check condensate pump	Nor / Def		B:				
04	Check compressor contactor	Nor / Def			08	Grill Temperature °C	13 - 17	
05	Check indoor swing motors (4Nos.)	Nor / Def			09	Room Temperature °C	24 ± 2	
06	Remote	Nor / Def			10	Indoor unit 63-80mm dia. opening should be closed with white cement	Closed	

Remarks:

EIC/Engineer
Facility

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Contract Agency

**CHECK LISTS FOR
WALK IN COOLERS
(SINGLE PHASE / THREE PHASE)**

ANNUAL MAINTENANCE OF WALK IN COOLERS

Date:

Facility Name:
 Room / location:
 Make: Blue Star/ RINAC
 Capacity:
 Refrigerant: R-22

Indoor unit Sl. No:
 Outdoor unit Sl. No:
 Model:
 Asset No:
 Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values	Sl. No	Description	Accepted Range	Obtained Values
01	Clean cooling coil (Water wash)	Cle /Dir			Voltage (Single Phase)	200 - 240	
02	Clean condenser coil (Water wash)	Cle /Dir		14	Voltage (3-Phase)	R: 415	
03	Clean drain hose & Drain pipe	Nor / Def				Y: 415	
04	Micro controller PC Board condition	Nor / Def				B: 415	
05	Temperature sensor (thermistor)	Nor / Def		15	Current drawn by compressor (Three Phase / Single Phase)	R: A	
06	Indoor unit fan-1 capacitor in MFD					Y: A	
07	Indoor unit fan-2 capacitor in MFD					B: A	
08	Condenser fan motor capacitor MFD	MFD		16	Current drawn by compressor (Single Phase)	A	
09	Lubricate Cond. fan motor bearings.	Lubricated		17	Current drawn by indoor fan motor -1	A	
10	Check copper pipe Insulation	Nor / Def		18	Current drawn by indoor fan motor -2	A	
11	Compressor run capacitor MFD (If single phase)			19	Current drawn by outdoor fan motor	A	
12	Any tinkering / painting required	Yes / No		20	Current drawn by total unit	A	
13	Indoor unit 65-80mm dia. opening should be closed with white cement	Closed				A	
						A	
14	Room inside light	Nor / Def		21	Room Temperature °C	4 ± 2°C	
15	Door lock & Gasket condition	Nor / Def		22	Ambient temperature		

Remarks:

EIC/Engineer
Facility

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HALF YEARLY MAINTENANCE OF WALK IN COOLERS

Date:

Facility Name:
 Room / location:
 Make: Blue Star/ RINAC
 Capacity:
 Refrigerant: R-22

Indoor unit Sl. No:
 Outdoor unit Sl. No:
 Model:
 Asset No:
 Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values
01	Clean cooling coil (Water wash)	Cle /Dir	
02	Clean condenser coil (Water wash)	Cle /Dir	
03	Clean drain hose & Drain pipe	Nor / Def	
04	Micro controller PC Board condition	Nor / Def	
05	Temperature sensor (thermistor)	Nor / Def	
06	Indoor unit fan-1 capacitor in MFD		
07	Indoor unit fan-2 capacitor in MFD		
08	Condenser fan motor capacitor MFD	MFD	
09	Lubricate Cond. fan motor bearings.	Lubricated	
10	Check copper pipe Insulation	Nor / Def	
11	Compressor run capacitor MFD (If single phase)		
12	Any tinkering / painting required	Yes / No	
13	Indoor unit 65-80mm dia. opening should be closed with white cement	Closed	
14	Room inside light	Nor / Def	
15	Door lock & Gasket condition	Nor / Def	

Sl. No	Description	Accepted Range	Obtained Values
	Voltage (Single Phase)	200 - 240	
14	Voltage (3-Phase)	R: 415	
		Y: 415	
		B: 415	
15	Current drawn by compressor (Three Phase / Single Phase)	R: A	
		Y: A	
		B: A	
16	Current drawn by compressor (Single Phase)	A	
17	Current drawn by indoor fan motor -1	A	
18	Current drawn by indoor fan motor -2	A	
19	Current drawn by outdoor fan motor	A	
20	Current drawn by total unit	A	
		A	
		A	
21	Room Temperature °C	4 ± 2°C	
22	Ambient temperature		

Remarks:

EIC/Engineer
Facility

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Contract Agency

QUARTERLY MAINTENANCE OF WALK IN COOLERS

Date:

Facility Name:
 Room / location:
 Make: Blue Star/ RINAC
 Capacity:
 Refrigerant: R-22 /

Indoor unit Sl. No:
 Outdoor unit Sl. No:
 Model:
 Asset No:
 Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
01	Clean drain hose & Drain pipe if required	Nor / Def			05	Current drawn by total unit (Three Phase)	R: A	
02	Indoor cooling coil condition	Nor / Def		Y: A				
03	Room inside light	Nor / Def		B: A				
04	Indoor unit 65-80mm dia. opening should be closed with white cement	Closed			06	Current drawn by total unit (1PH)	A	
					07	Room Temperature °C	4 ± 2°C	
					08	Door lock & Gasket condition	Nor / Def	

Remarks:

EIC/Engineer
Facility

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**CHECK LISTS FOR
MORTUARY FREEZER BOX**

ANNUAL MAINTENANCE OF MORTUARY FREEZER BOX

Facility Name:

Make:

Model:

S. No:

Capacity:

Date:

S.No	Description	Accepted Range	Obtained Values	S.No	Description	Accepted Range	Obtained Values
01	Ensure proper tightness of the base bolts for Compressor	Tightened		10	Condenser fan motor lubrication	Lubricated	
02	Ensure proper tightness of the base bolts of refrigeration condensing unit	Tightened		11	Condenser fan motor capacitor	MFD	
03	Clean Air cooled condenser with water if required	Cleaned		12	Starting capacitor for compressor	MFD	
04	Check condenser fan blades	No breakage		13	Run capacitor for compressor	MFD	
05	Check condenser fan motor	Normal/ Defective		14	Current Drawn by condenser fan motor	A	
06	Check micro controller condition	Normal/ Defective		15	Current Drawn by compressor	A	
07	Leak check for Refrigerant	No Leak		16	Suction pressure (if port available)	50-70 PSIG	
08	Check lights	Normal/ Defective		17	Controller Set Point	4°C	
09	Clean freezer box inside & outside	Cleaned		18	Any tinkering / painting required	Yes / No	

Remarks:

EIC/Engineer
Facility

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HALF-YEARLY MAINTENANCE OF MORTUARY FREEZER BOX

Facility Name:

Make:

Model:

S. No:

Capacity:

Date:

S.No	Description	Accepted Range	Obtained Values	S.No	Description	Accepted Range	Obtained Values
01	Clean Air cooled condenser with water if required	Cleaned		08	Condenser fan motor capacitor	MFD	
02	Check condenser fan blades	No breakage		09	Starting capacitor for compressor	MFD	
03	Check condenser fan motor	Normal/ Defective		10	Run capacitor for compressor	MFD	
04	Check micro controller condition	Normal/ Defective		11	Current Drawn by condenser fan motor	A	
05	Check lights	Normal/ Defective		12	Current Drawn by compressor	A	
06	Clean freezer box inside & outside	Cleaned		13	Controller Set Point	4°C	
07	Condenser fan motor lubrication	Lubricated		14	Any tinkering / painting required	Yes / No	

Remarks:

EIC/Engineer
Facility

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Contract Agency

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Contract Agency

QUARTERLY MAINTENANCE OF MORTUARY FREEZER BOX

Facility Name:

Make:

Model:

S. No:

Capacity:

Date:

S.No	Description	Accepted Range	Obtained Values	S.No	Description	Accepted Range	Obtained Values
01	Clean Air cooled condenser with air if required	Cleaned		06	Clean freezer box inside & outside	Cleaned	
02	Check condenser fan blades	No breakage		07	Condenser fan motor lubrication	Lubricated	
03	Check condenser fan motor	Normal/ Defective		08	Current Drawn by condenser fan motor	A	
04	Check micro controller condition	Normal/ Defective		09	Current Drawn by compressor	A	
05	Check lights	Normal/ Defective		10	Controller Set Point	4°C	

Remarks:

EIC/Engineer
Facility

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Contract Agency

CHECK LISTS FOR MORTUARY COLD STORAGE

ANNUAL MAINTENANCE OF MORTUARY COLD STORAGE

Facility Name:

Make:

Model:

S. No:

Capacity:

Date:

S.No	Description	Accepted Range	Obtained Values	S.No	Description	Accepted Range	Obtained Values
01	Ensure proper tightness of the base bolts for Compressor	Tightened		13	Condenser fan motor lubrication	Lubricated	
02	Ensure proper tightness of the base bolts of refrigeration condensing unit	Tightened		14	Condenser fan motor capacitor	MFD	
03	Clean Air cooled condenser with water	Cleaned		15	cooler fan motor capacitor	MFD	
04	Check cooler fan blade	No breakage		16	Starting capacitor for compressor	MFD	
05	Check cooler fan motor	Normal/ Defective		17	Run capacitor for compressor	MFD	
06	Check condenser fan blades	No breakage		18	Current Drawn by indoor / evaporator fan motor	A	
07	Check condenser fan motor	Normal/ Defective		19	Current Drawn by condenser fan motor	A	
08	Check micro controller condition	Normal/ Defective		20	Current Drawn by compressor	A	
09	Leak check for Refrigerant	No Leak		21	Suction pressure (if port available)	50-70 PSIG	
10	Check Locks / latches for doors	Normal/ Defective		22	Controller Set Point	4°C	
11	Clean the controller box with air blower	Cleaned		23	Voltage	V	
12	Any tinkering / painting required	Yes / No					

Remarks:

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Facility

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HALF-YEARLY MAINTENANCE OF MORTUARY COLD STORAGE

Facility Name:

Make:

Model:

S. No:

Capacity:

Date:

S.No	Description	Accepted Range	Obtained Values	S.No	Description	Accepted Range	Obtained Values
01	Clean Air cooled condenser with water	Cleaned		10	Condenser fan motor capacitor	MFD	
02	Check cooler fan blade	No breakage		11	Cooler fan motor capacitor	MFD	
03	Check cooler fan motor	Normal/ Defective		12	Starting capacitor for compressor	MFD	
04	Check condenser fan blades	No breakage		13	Run capacitor for compressor	MFD	
05	Check condenser fan motor	Normal/ Defective		14	Current Drawn by indoor / evaporator fan motor	A	
06	Check micro controller condition	Normal/ Defective		15	Current Drawn by condenser fan motor	A	
07	Check Locks / latches for doors	Normal/ Defective		16	Current Drawn by compressor	A	
08	Clean the controller box with air blower	Cleaned		17	Controller Set Point	4°C	
09	Condenser fan motor lubrication	Lubricated		18	Voltage	V	
	Any tinkering / painting required	Yes / No					

Remarks:

EIC/Engineer
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QUARTERLY MAINTENANCE OF MORTUARY COLD STORAGE

Facility Name:

Make:

Model:

S. No:

Capacity:

Date:

S.No	Description	Accepted Range	Obtained Values	S.No	Description	Accepted Range	Obtained Values
01	Clean Air cooled condenser with air	Cleaned		05	Current Drawn by indoor / evaporator fan motor	A	
02	Check Locks for doors	Normal/ Defective		06	Current Drawn by condenser fan motor	A	
03	Clean the controller box with air blower	Cleaned		07	Current Drawn by compressor	A	
04	Controller Set Point	4°C		08	Voltage	V	

Remarks:

EIC/Engineer
Facility

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CHECK LISTS FOR WATER COOLERS

ANNUAL MAINTENANCE OF WATER COOLER

Facility Name:

Make: Voltas / Blue Star

Model:

S.No:

Capacity: 40 / 100 /150 / Ltr

Date:

S.No	Description	Accepted Range	Obtained Values	S.No	Description	Accepted Range	Obtained Values
01	Clean Air cooled condenser			12	Replace the water filter		
02	Check Condenser fan blades	No breakage		13	Check water temperature	10-14 °C	
03	Check start / run capacitor of condenser motor			14	Voltage	180-260	
04	Check thermostat working condition			15	Current drawn by compressor	Amps	
05	Check Water faucet	No leak		16	Current drawn by unit		
06	Check Float valve function	No leak		17	Check start / run capacitor of compressor		
07	Check hose connections	No leak		18	Any tinkering / painting required	Yes / No	
08	Check Starting Relay	Working		19	Bottom painting		
09	Clean storage water tank			Remarks:			
10	Leak check for Refrigerant	No Leak					
11	Lubricate condenser fan motor	Lubricated					

Remarks:

EIC/Engineer
Facility

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HALF YEARLY MAINTENANCE OF WATER COOLERS

Facility Name:

Make: Voltas / Blue Star

Model:

S.No:

Capacity: 40 / 100 /150 / Ltr

Date:

S.No	Description	Accepted Range	Obtained Values	S.No	Description	Accepted Range	Obtained Values
01	Clean Air cooled condenser			09	Replace the water filter		
02	Check Condenser fan blades	No breakage		10	Check water temperature	10-14 °C	
03	Check Water faucet	No leak		11	Voltage	180-260	
04	Check Float valve function	No leak		12	Current drawn by compressor	Below Rated Amps	
05	Check hose connections	No leak		13	Current drawn by unit		
06	Check Starting Relay	Working		14	Any tinkering / painting required	Yes / No	
07	Clean storage water tank						
08	Lubricate condenser fan motor	Lubricated					

Remarks by user:

EIC/Engineer
Facility

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BI-MONTHLY MAINTENANCE OF WATER COOLERS

Facility Name:

Make: Voltas / Blue Star

Model:

S.No:

Capacity: 40 / 100 /150 / Ltr

Date:

S.No	Description	Accepted Range	Obtained Values		S.No	Description	Accepted Range	Obtained Values
01	Check Water faucet	No leak			05	Clean water filter		
02	Check Float valve function	No leak			06	Check water temperature	10-14 °C	
03	Check hose connections	No leak			Remarks:			
04	Clean storage water tank							

Remarks by user:

EIC/Engineer
Facility

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CHECK LISTS FOR
REFRIGERATORS

ANNUAL MAINTENANCE OF REFRIGERATORS

Date:

Facility Name:

Indoor unit Sl. No:

Room / location:

Outdoor unit Sl. No:

Make:

Type of refrigerator unit:

Capacity:

Asset No:

Model:

Refrigerant: R-134A

Unit Current:

Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
01	Clean cooling coil	Cle /Dir			09	Voltage	200 - 240	
02	Clean compressor & drain tray	Cle /Dir			10	Compressor start / run capacitor MFD		
03	Clean drain hose pipe	Nor / Def			11	Check refrigerant leak	No leak	
04	Clean refrigerator inside	Cleaned			12	Current drawn by compressor	A	
05	Check thermostat	Nor / Def			13	Outside cabinet condition	Rusted/ good	
06	Check compressor starting relay	Nor / Def			14	Inside trays condition	Rusted/ good	
07	Freezer fan	Nor / Def			15	Light	Nor / Def	
08	Any tinkering / painting required	Yes / No						

Remarks:

EIC/Engineer
Facility

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HALF YEARLY MAINTENANCE OF REFRIGERATORS

Date:

Facility Name:

Indoor unit Sl. No:

Room / location:

Outdoor unit Sl. No:

Make:

Type of refrigerator unit:

Capacity:

Asset No:

Model:

Refrigerant: R-134A

Unit Current:

Refrigerant Charge in Grams:

Sl. No	Description	Accepted Range	Obtained Values		Sl. No	Description	Accepted Range	Obtained Values
01	Clean cooling coil / freezer box	Cle /Dir			09	Voltage	200 - 240	
02	Clean compressor & drain tray	Cle /Dir			10	Compressor start / run capacitor MFD		
03	Clean drain hose pipe	Nor / Def			11	Check refrigerant leak	No leak	
04	Clean refrigerator inside	Cleaned			12	Current drawn by compressor	A	
05	Check thermostat	Nor / Def			13	Outside cabinet condition (Tinkering required)	Rusted/ good	
06	Check compressor starting relay	Nor / Def			14	Inside trays condition	Rusted/ good	
07	Freezer fan	Nor / Def			15	Light	Nor / Def	
08	Any tinkering / painting required	Yes / No						

Remarks:

EIC/Engineer
Facility

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