

Test Report
on
Ozone Depleting Substances (ODS) Leak Test

**Prepared
for
Cotton Clothing (BD) Ltd.**

Kazi Tower, 27 Road, Gazipura, Tongi, Gazipur, Bangladesh.

Report No. XSODS20160087



Prepared by

Ozone Depleting Substances (ODS) Leak Test at Cotton Clothing (BD) Ltd.

Kazi Tower, 27 Road, Gazipura, Tongi, Gazipur, Bangladesh.

Report No.	XSODS20160087
Sampling Date	November 12, 2016
Sampling Time	02:00 p.m.- 04:30 p.m.
Reporting Date	November 15, 2016

Environmental Conditions:	
Temperature	30.1 °C
Humidity	58.2% RH
Visibility/Season	Winter & Sunny Atmosphere

Leak test for ozone depleting substances (ODS) was conducted for the equipments.

Methods and Procedure:

Leak test was carried out using an electronic leak detector with advanced ionization detection sensor.

Instruments:

An electronic refrigerant leak detector was used to check refrigerant leak. The detector is capable of detect CFCs, HCFCs and HFCs.

Sensitivity: 5 gms per year

Response Time : < 1 second. A partial list of these gases include:

CFCs	R11, R12, R13 etc.
HCFCs	R22, R502, R500 etc.
HFCs	R134A, R123, R125, R33 etc.

Ozone Depleting Substances (ODS) Leak Test Report
Cotton Clothing (BD) Ltd.
Report No. XSODS20160087

Page 2 of 15

Team:

All the experiments and reporting have been done under the supervision of

Mohammad Kabir Hossain (MSc in Environment & Sustainable Technology, Manchester, UK).

Team members involved in field experiments and reporting:

- ❖ **Mohammad Faridul Islam** (BSc & MSc in Environment Science)

Lab Analyst, 3R Environmental Consulting Limited

- ❖ **Mohammad Mosarof Hossain**

Assistant Technical officer, 3R Environmental Consulting Limited

Basic Information of Air Conditioner/ Refrigerator	
Air Conditioner/Refrigerator no	01
Name of Equipment	Window Air Conditioner
Serial Number/Model	T043807/ASGA24AET
Brand	O General
Location	3 rd Floor, Inspection Room(KGS)
Capacity (BTU/hr)	2 Ton
Power Rating	230v/50Hz
Type of Refrigerant	R-22
Refrigerant Quantity(Kg)	Not Found
Manufacturing Date	Not Found
Installation Date	Not Found
Last Servicing Date	04/06/2016
Physical Structure	Good Condition

Test Result

No leak detected

Expert Comments and Recommendations:

No leak was found during the ODS leak test which means there is no emission of ODS to the environment. So, the unit is not harmful to the environment.

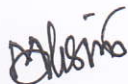
It is recommended that the unit should be cleaned periodically.

Prepared by



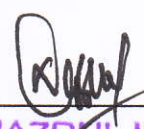
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Basic Information of Air Conditioner/ Refrigerator	
Air Conditioner/Refrigerator no	02
Name of Equipment	Window Air Conditioner
Serial Number/Model	T043808/ASGA24AET
Brand	O General
Location	3 rd Floor, Inspection Room(KIB)
Capacity (BTU/hr)	2 Ton
Power Rating	230V/50Hz
Type of Refrigerant	R-22
Refrigerant Quantity(Kg)	Not Found
Manufacturing Date	Not Found
Installation Date	Not Found
Last Servicing Date	04/06/2016
Physical Structure	Good Condition

Test Result

No Leak detected

Expert Comments and Recommendations:

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It is recommended that the unit should be cleaned periodically.

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Basic Information of Air Conditioner/ Refrigerator	
Air Conditioner/Refrigerator no	03
Name of Equipment	Window Air Conditioner
Serial Number/Model	T062790/ASGA24AET
Brand	O GENERAL
Location	1 st Floor, Inspection Room(H&M)
Capacity (BTU/hr)	2 Ton
Power Rating	230v/50Hz
Type of Refrigerant	R-22
Refrigerant Quantity (Kg)	Not Found
Manufacturing Date	Not Found
Installation Date	Not Found
Last Servicing Date	04/06/2016
Physical Structure	Good Condition

Test Result

No leak detected

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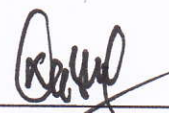
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Basic Information of Air Conditioner/ Refrigerator	
Air Conditioner/Refrigerator no	04
Name of Equipment	Window Air Conditioner
Serial Number/Model	T054983/ASGA24AET
Brand	O General
Location	1 st Floor, Inspection Room(H&M)
Capacity (BTU/hr)	2 Ton
Power Rating	230V/50Hz
Type of Refrigerant	R-22
Refrigerant Quantity(Kg)	Not Found
Manufacturing Date	Not Found
Installation Date	Not Found
Last Servicing Date	04/06/2016
Physical Structure	Good Condition

Test Result

No leak detected

Expert Comments and Recommendations:

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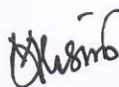
It is recommended that the unit should be cleaned periodically.

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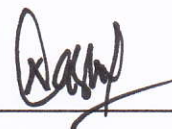
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Basic Information of Air Conditioner/ Refrigerator	
Air Conditioner/Refrigerator no	05
Name of Equipment	Window Air Conditioner
Serial Number/Model	E158323/ASG12ASLCW
Brand	O General
Location	1 st Floor, Inspection Room (ORYX)
Capacity (BTU/hr)	1 Ton
Power Rating	230V/50Hz
Type of Refrigerant	R-22
Refrigerant Quantity(Kg)	Not Found
Manufacturing Date	Not Found
Installation Date	Not Found
Last Servicing Date	04/06/2016
Physical Structure	Good Condition

Test Result

No leak detected

Expert Comments and Recommendations:

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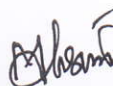
It is recommended that the unit should be cleaned periodically.

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Basic Information of Air Conditioner/ Refrigerator	
Air Conditioner/Refrigerator no	06
Name of Equipment	Window Air Conditioner
Serial Number/Model	T039114/ASGA24AET
Brand	O General
Location	1 st Floor, Inspection Room (C&A)
Capacity (BTU/hr)	2 Ton
Power Rating	230V/50Hz
Type of Refrigerant	R-22
Refrigerant Quantity(Kg)	Not Found
Manufacturing Date	Not Found
Installation Date	Not Found
Last Servicing Date	11/08/2016
Physical Structure	Good Condition

Test Result

No leak detected

Expert Comments and Recommendations:

No leak was found during the ODS leak test which means there is no emission of ODS to the environment. So, the unit is not harmful to the environment.

It is recommended that the unit should be cleaned periodically.

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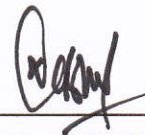
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Basic Information of Air Conditioner/ Refrigerator	
Air Conditioner/Refrigerator no	07
Name of Equipment	Ceiling Air Conditioner
Serial Number/Model	TO20535/AOG54APA3L
Brand	O General
Location	1 st Floor, Conference Room
Capacity (BTU/hr)	2.5 Ton
Power Rating	230V/50Hz
Type of Refrigerant	R-22
Refrigerant Quantity(Kg)	Not Found
Manufacturing Date	Not Found
Installation Date	Not Found
Last Servicing Date	11/08/2016
Physical Structure	Good Condition

Test Result

No Leak detected

Expert Comments and Recommendations:

No leak was found during the ODS leak test which means there is no emission of ODS to the environment. So, the unit is not harmful to the environment.

It is recommended that the unit should be cleaned periodically.

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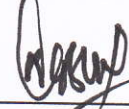
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Basic Information of Air Conditioner/ Refrigerator	
Air Conditioner/Refrigerator no	08
Name of Equipment	Ceiling Air Conditioner
Serial Number/Model	TO20538/AOG54APA3L
Brand	O General
Location	1 st Floor, Conference Room
Capacity (BTU/hr)	2.5 Ton
Power Rating	230V/50 Hz
Type of Refrigerant	R-22
Refrigerant Quantity(Kg)	Not Found
Manufacturing Date	Not Found
Installation Date	Not Found
Last Servicing Date	11/08/2016
Physical Structure	Good Condition

Test Result

No leak detected

Expert Comments and Recommendations:

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It is recommended that the unit should be cleaned periodically.

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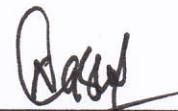
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Basic Information of Air Conditioner/ Refrigerator	
Air Conditioner/Refrigerator no	09
Name of Equipment	Window Air Conditioner
Serial Number/Model	T036020/ASGA24AET
Brand	O General
Location	1 st Floor, Accounted Room
Capacity (BTU/hr)	2 Ton
Power Rating	230V/50 Hz
Type of Refrigerant	R-22
Refrigerant Quantity(Kg)	Not Found
Manufacturing Date	Not Found
Installation Date	Not Found
Last Servicing Date	11/08/2016
Physical Structure	Good Condition

Test Result

No leak detected

Expert Comments and Recommendations:

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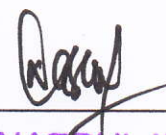
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Basic Information of Air Conditioner/ Refrigerator	
Air Conditioner/Refrigerator no	10
Name of Equipment	Ceiling Air Conditioner
Serial Number/Model	TO20545/AOG54APA3L
Brand	O General
Location	1 st Floor, DGM Room
Capacity (BTU/hr)	2.5 Ton
Power Rating	230V/50 Hz
Type of Refrigerant	R-22
Refrigerant Quantity(Kg)	Not Found
Manufacturing Date	Not Found
Installation Date	Not Found
Last Servicing Date	11/08/2016
Physical Structure	Good Condition

Test Result

No leak detected

Expert Comments and Recommendations:

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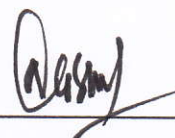
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Basic Information of Air Conditioner/ Refrigerator	
Air Conditioner/Refrigerator no	11
Name of Equipment	Ceiling Air Conditioner
Serial Number/Model	T011043/ASGA24FMTA
Brand	O General
Location	Ground Floor, Admin Room
Capacity (BTU/hr)	2 Ton
Power Rating	230V/50 Hz
Type of Refrigerant	R-22
Refrigerant Quantity(Kg)	Not Found
Manufacturing Date	Not Found
Installation Date	Not Found
Last Servicing Date	11/08/2016
Physical Structure	Good Condition

Test Result
No leak detected

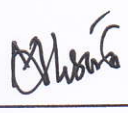
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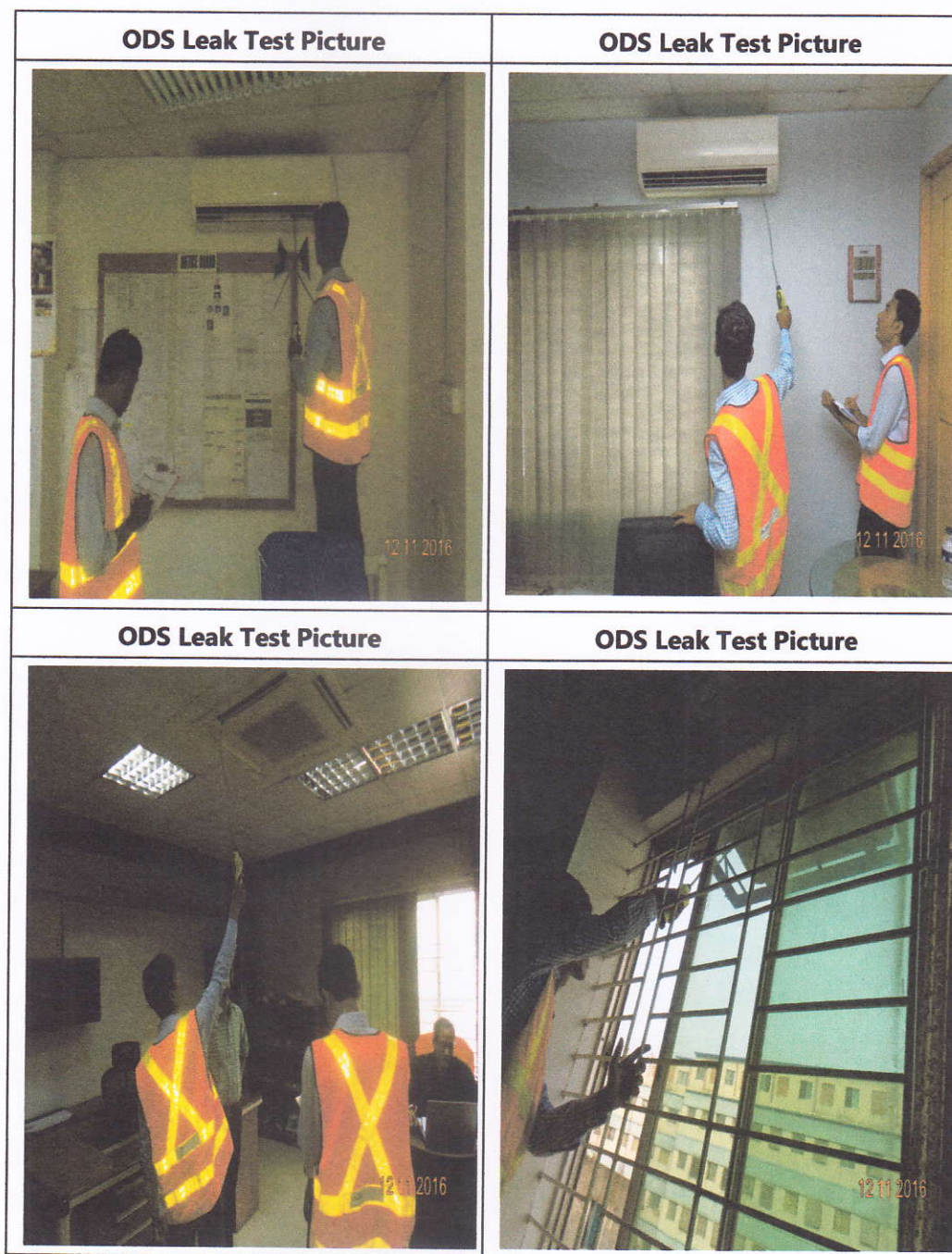
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Report No. XSODS20160087

Page 14 of 15



Guidelines for Maintaining ODS inventory

For "Cotton Clothing (BD) Ltd."

3R Environmental Consulting Limited has prepared the ODS inventory for **Cotton Clothing (BD) Ltd.** to establish and maintain accurate and up-to-date inventory records of Ozone Depleting Substances (ODS). This guideline will help to maintain ODS Inventory record sheet.

How to Use ODS Inventory Record Sheet

Section 1- General Information: This section contains general information of refrigerant & refrigerant containing equipment's i.e. AC/ Refrigerator. When a refrigerator/ AC is purchased this part have to be filled and purchase document should be kept with the inventory sheet for further reference. Add the Inventory Number in the top right corner of this section.

Section 2- Refrigerant Addition: When refrigerant needs to be added this section has to be filled by giving following information-

- **Date of Refrigerant Addition**
- **Name of the company who have filled the refrigerant in your AC/Refrigerator**
- **Amount of refrigerant (kg)that is added in the AC/Refrigerator**
- **Mention the reason for which refrigerant is added.**

For every time of refrigerant addition this section needs to be updated by including previous & latest information in the sequential rows of the inventory sheet. Individual inventory sheets are to be maintained for all equipment.

Section 3- Refrigerant Removal: This section needs to be filled when refrigerant is removed from your equipment. This section of the ODS inventory sheet could be filled following the same instruction mentioned in **section-2**.

Section 4- Leak Test: After the leak test of your equipment (AC/ Refrigerator) this section has to be filled by filling the below information-

- **Date of Leak test**
- **Name of the third party company who has performed the leak test**
- **Leak Test result & comment from the test report of the third party company.**

After conducting leak test every time, this section needs to be updated by the factory personnel including the previous & latest leak testing information.

**Developed by
3R Environmental Consulting Limited**