Test Report
On
Workplace Noise Level Assessment

Prepared For

Vertex RMG Division
Vertex Wear Limited, Dress World Limited, Neo Fashion Limited

Varari, Rajfulbaria, Tetuljhora, Hemayetpur, Savar, Dhaka, Bangladesh.

Report No. XSN-3RECL-2018-1053

Prepared by

3R ENVIRONMENTAL CONSULTING

sustainable solutions through innovation

Noise Level Assessment
At
Vertex RMG Division
Vertex Wear Limited, Dress World Limited, Neo Fashion Limited

Varari, Rajfulbaria, Tetuljhora, Hemayetpur, Savar, Dhaka, Bangladesh.

Report No.	XSN-3RECL-2018-1053
Sampling Date	May 05, 2018
Sampling Time	10:30 a.m.- 03:00 p.m.
Reporting Date	May 08, 2018

Outside Weather Conditions	
Temperature	29.5°C
Humidity	61.2% RH
Visibility/Season	Summer & Sunny Atmosphere

Method of Sampling & Analysis

Sampling and measurement of noise level was done following international standard "CAN/CSA Z107. 56-06 Procedures for the Measurement of Occupational Noise Exposure standard".

Description of Instrumentation

Calibrated CEM DT-8850 Sound Level Meter was used to measure the sound intensity. The instrument IEC is 61672-1 Type 2 standards.

Range of Measurement	35dB~130dB
Accuracy	1.4dB at 94dB sound level, 1kHz sine wave
Resolution	0.1dB

Measurement Uncertainties

An uncertainty of measurement is ±2.5% for the following measurements.

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:

- **Md. Sarwar Kabir** (BSc in Electrical and Electronics Engineering)
  Chief Technical officer, 3R Environmental Consulting Limited

- **Md. Golam Rabbani** (BSc & MSc in Environmental Science)
  Lab Analyst, 3R Environmental Consulting Limited

- **Mohammad Mosarof Hossain**
  Assistant Technical officer, 3R Environmental Consulting Limited

Result of Assessment

The result of the analysis is expressed in the following table:

Floor/Level	Section	Avg. Noise Level (dB)	Recommended Value
Utility Building Ground Floor	Generator Room	**101.3**	**Bangladesh National Building Code (BNBC) Standard:** 90 dB for 8 hours exposure **OSHA standard:** 90 dB for 8 hours exposure **NIOSH Standard:** 85 dBA TWA for 8 hours
1st Floor	Boiler & Compressor Room	**82.1**	
Shed Building	Doctor Room	**67.6**	
Shed Building	Child Care Room	**66.4**	
Shed Building Ground Floor	Finished Goods Area	**64.6**	
Production Building 1st Floor	Finishing Section (VWL)	**66.2**	
1st Floor	Sewing Section (VWL)	**77.8**	
1st Floor	Packing Section (VWL)	**69.2**	
1st Floor	Boiler Room	**81.2**	
2nd Floor	Sewing Section (DWL)	**78.7**	
2nd Floor	Finishing Section (DWL)	**77.1**	
2nd Floor	Packing Section (DWL)	**69.5**	
3rd Floor	Sample Section (VWL, DWL, NFL)	**77.7**	
3rd Floor	Cutting Section (VWL, DWL, NFL)	**79.2**	
3rd Floor	Fusing Section (VWL, DWL, NFL)	**74.6**	
4th Floor	Sewing Section (NFL)	**78.3**	
4th Floor	Spot Removing Room (NFL)	**78.1**	
4th Floor	Finishing Section (NFL)	**75.6**	
4th Floor	Packing Section (NFL)	**72.5**	
4th Floor	Boiler Room	**81.5**	
Roof Top	Dining Hall	**69.7**	

Expert's Comment and Recommendation
It has been observed that the workplace Noise Level of the factory is **satisfactory** according to the **BNBC, OSHA, NIOSH** standards except Generator Room. As the noise level of above stated place has been exceeded the reference, it is recommended that air plug should be provided to the related workers to avoid occupational health hazards.

Prepared by	**Checked by**	**Approved by**

Work Place Noise Level Assessment Picture	Work Place Noise Level Assessment Picture
	
Work Place Noise Level Assessment Picture	**Work Place Noise Level Assessment Picture**