


Test Report

Ref No	: ET/GMSCKIL/EPT-N/15-152
Enterprise	: GMS Composite Knitting Ind. Ltd.
Factory Address	: Shardagonj, Kashimpur, Gazipur, Bangladesh
Sample Description	: Sound/Noise Level (Indoor Assessment)
Sampling Time	: 11.00 AM – 01.00 PM
Sampling Date/Date of Test	: 31 st March, 2015
Reporting Date	: 05 th April, 2015
Sampling Meter Description	: A digital sound level meter was used to measure the A-weighted Sound Level. Measurement Frequency: 31.5 Hz to 8000 Hz; Measuring range: 35 to 130 db. ; Resolution: 0.1 db. Accuracy: ±5 db.


Collected Data:

Sl No.	Name of Sections	Location	ECR 1997 Recommendation Value is 75 Decibel	Obtained value	Remarks
1	Dining room	6 th Floor B ₁		62.5	Acceptable
2	Printing section 2	5 th Floor B ₁		73.0	Acceptable
3	Printing section 1	4 th Floor B ₁		72.5	Acceptable
4	Accessories store	3 rd Floor B ₁		58.0	Acceptable
5	Office room	2 nd Floor B ₁		64.0	Acceptable
6	Medical center			59.7	Acceptable
7	Store room	1 st Floor B ₁		63.0	Acceptable
8	Embroidery section	Ground Floor B ₁		79.0	Not Acceptable
9	Cutting section	5 th Floor B ₂		73.0	Acceptable
10	Printing section	4 th Floor B ₂		73.2	Acceptable
11	Sewing section-B	3 rd Floor B ₂		75.0	Acceptable
12	Sewing section-A	2 nd Floor B ₂		75.0	Acceptable
13	Finishing section	1 st Floor B ₂		72.0	Acceptable
14	Dyeing section	Ground Floor B ₂		85.6	Not Acceptable

Note: B₁= Building 1, B₂= Building 2


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 Enviro-Tech





Report Reviewed By:
 Md. Alim Miah
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Collected Data:

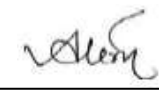
Sl No.	Name of Sections	Location	Obtained value	Remarks
15	Sewing section-E	5 th Floor B ₃	75.0	Acceptable
16	Cutting section	4 th Floor B ₃	71.0	Acceptable
17	Sample section		69.0	Acceptable
18	Sample section	3 rd Floor B ₃	70.0	Acceptable
19	Office room		65.0	Acceptable
20	Finishing section	2 nd Floor B ₃	71.0	Acceptable
21	Dining room	1 st Floor B ₃	69.0	Acceptable
22	Office room		63.0	Acceptable
23	Dyeing Finishing	Ground Floor B ₃	81.5	Not Acceptable
24	Dining room	6 th Floor B ₄	70.0	Acceptable
25	Cutting section	5 th Floor B ₄	72.0	Acceptable
26	Sewing section-D	4 th Floor B ₄	75.0	Acceptable
27	Sewing section-C	3 rd Floor B ₄	75.0	Acceptable
28	Quality table	2 nd Floor B ₄	71.0	Acceptable
29	Finishing section		72.5	Acceptable
30	Yarn dyeing section	1 st Floor B ₄	88.0	Not Acceptable
31	Yarn store		69.0	Acceptable
32	Yarn dyeing section	Ground Floor B ₄	83.5	Not Acceptable
33	Chemical store		70.0	Acceptable

ECR 1997 Recommendation Value is 75 Decibel

Note: B₃= Building 3, B₄= Building 4


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Collected Data:

Sl No.	Name of Sections	Location	Obtained value	Remarks
34	Wet lab	3 rd Floor B ₅	73.0	Acceptable
35	Testing lab room		69.0	Acceptable
36	Testing lab room	2 nd Floor B ₅	71.0	Acceptable
37	Office room	1 st Floor B ₅	63.0	Acceptable
38	Dyeing finishing	Ground Floor B ₅	82.0	Not Acceptable
39	Chemical store		65.0	Acceptable
40	Dyeing (Batch)	Shed	75.0	Acceptable
41	Dyeing (Wash)	Shed	80.4	Not Acceptable
42	Dyeing (Old)	Shed	78.5	Not Acceptable
43	Dyeing finishing	Shed	79.5	Not Acceptable
44	Boiler room	Shed	98.5	Not Acceptable
45	Generator room	Shed	113.5	Not Acceptable
46	Childcare room	Shed	70.0	Acceptable
47	Medical room	Shed	67.0	Acceptable
48	Canteen	Shed	69.9	Acceptable
49	Dining room	6 th Floor B _{6A}	69.0	Acceptable
50	Cutting section	5 th Floor B _{6A}	71.5	Acceptable
51	Sewing section-G	4 th Floor B _{6A}	75.0	Acceptable
52	Sewing section-F	3 rd Floor B _{6A}	74.5	Acceptable
53	QC table (Sewing)		71.5	Acceptable
54	Finishing section	2 nd Floor B _{6A}	72.5	Acceptable
55	QC table (Finishing)		71.6	Acceptable
56	Knitting section	1 st Floor B _{6A}	81.0	Not Acceptable
57	Fabric store	Ground Floor B _{6A}	65.0	Acceptable

ECR 1997 Recommendation Value is 75 Decibel

Note: B₅= Building 5, B_{6A}= Building 6A, Shed

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Collected Data:

Sl No.	Name of Sections	Location	ECR 1997 Recommendation Value is	Obtained value	Remarks
58	Dining room	6 th Floor B _{6B}		65.0	Acceptable
59	Cutting section	5 th Floor B _{6B}		72.0	Acceptable
60	Sewing section-I	4 th Floor B _{6B}		75.0	Acceptable
61	Sewing section-H	3 rd Floor B _{6B}		75.0	Acceptable
62	QC table (Sewing)	2 nd Floor B _{6B}		71.5	Acceptable
63	Finishing section			72.0	Acceptable
64	QC table (Finishing)			71.0	Acceptable
65	Knitting section	1 st Floor B _{6B}		79.0	Not Acceptable
66	Knitting section	Ground Floor B _{6B}		80.0	Not Acceptable

Note: B_{6B} = Building 6B

Comments: According to Department of Environment (ECR 1997) standard for ambient noise level in the industrial zone is 75 and 70 decibels at day and night time respectively. The assessment results of some areas were found satisfactory and the workplace noise condition is quite good comparison to ambient noise quality standard. Since only Embroidery section, Dyeing section (Batch, Wash, Old), Dyeing finishing section, Yarn dyeing section, Knitting section, Generator and Boiler room measured noise level exceeds the ambient noise quality standard, it is recommended that earplugs should be provided to related workers to avoid occupational health hazard.



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Graphical Presentation of the Result for Building 1 & 2:

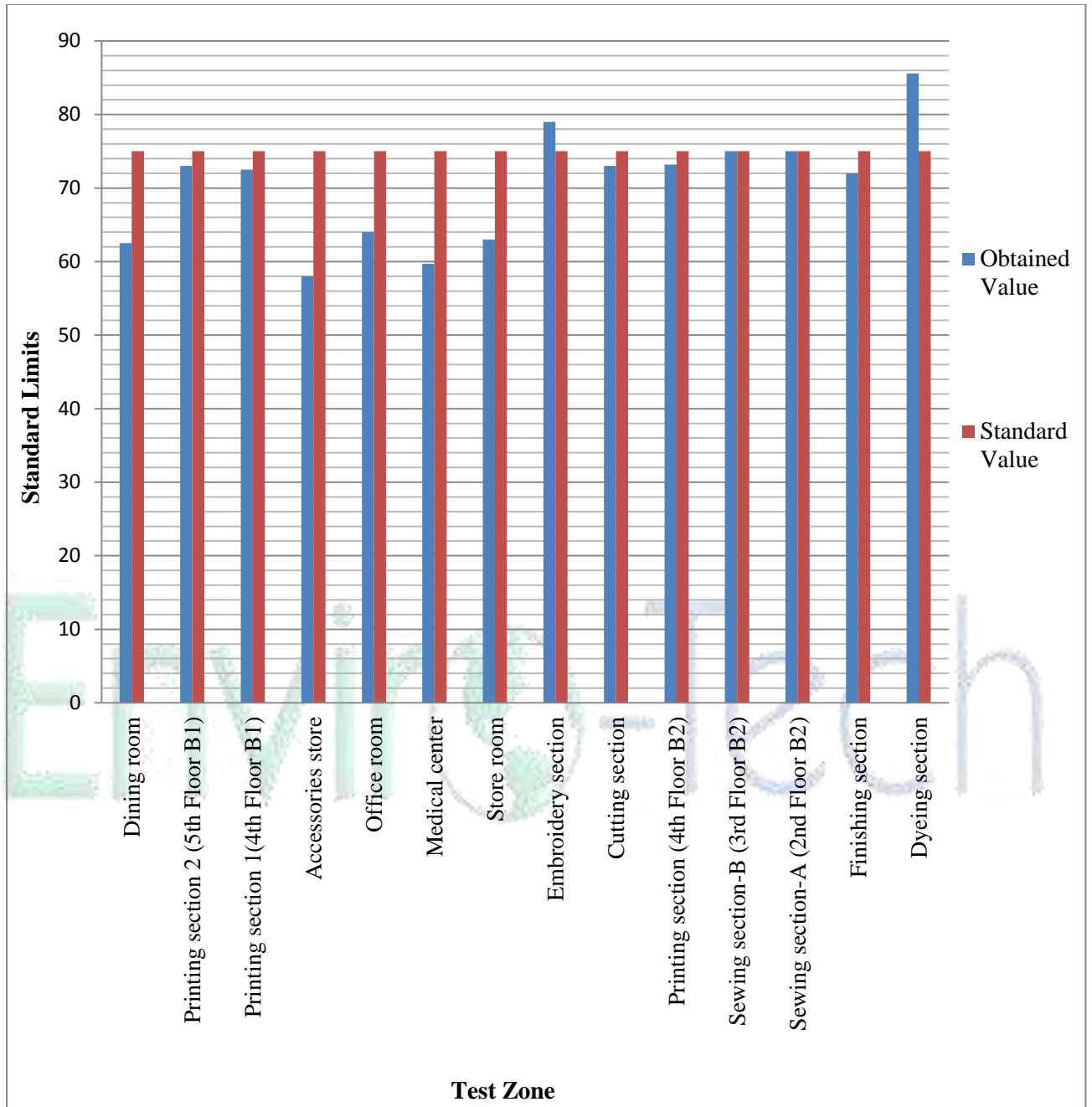


Figure: Graphical Presentation of the Sound level measurement test result

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Graphical Presentation of the Result for Building 3 & 4:

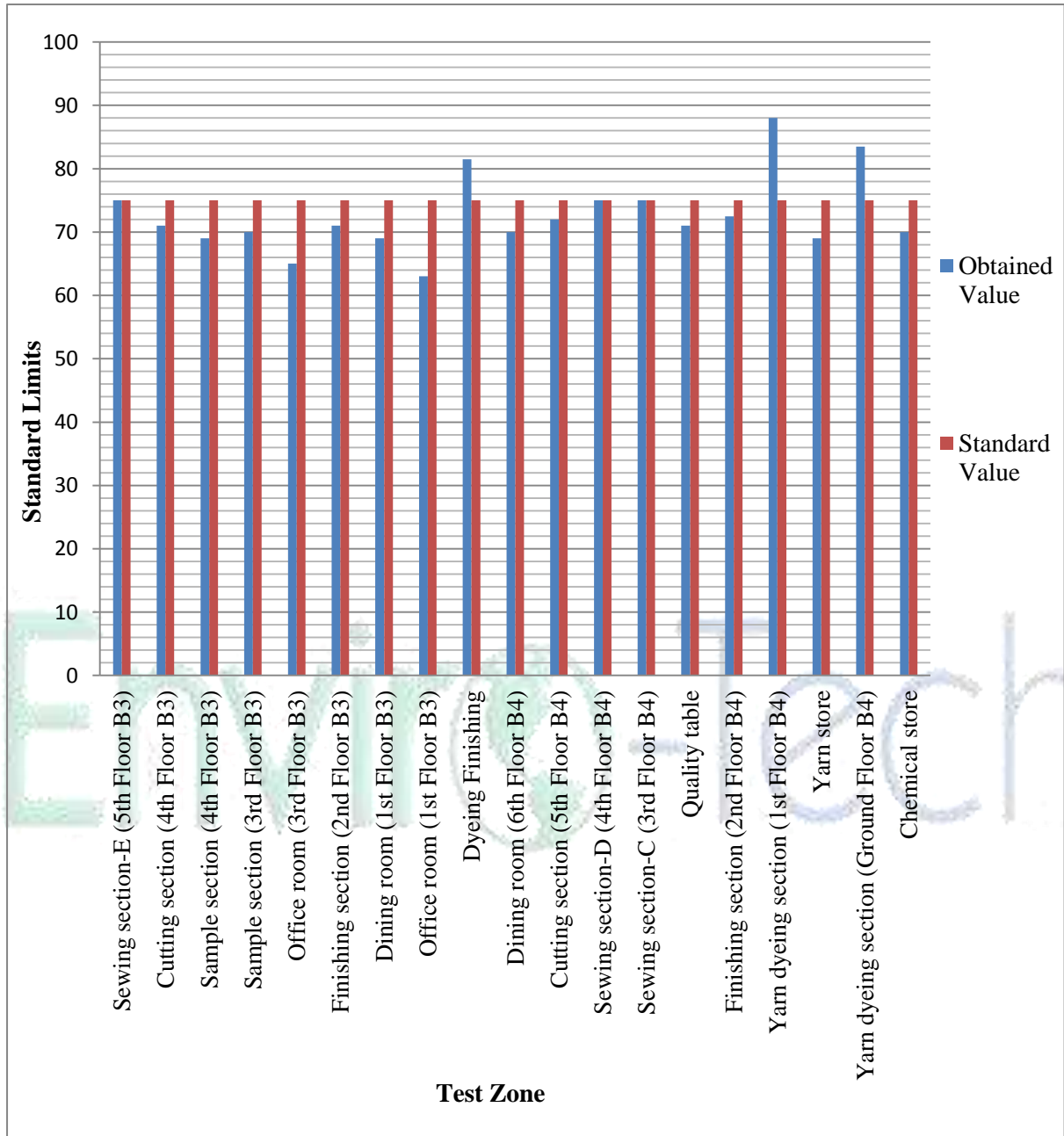


Figure: Graphical Presentation of the Sound level measurement test result

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Graphical Presentation of the Result for Building 5, 6A & Shed:

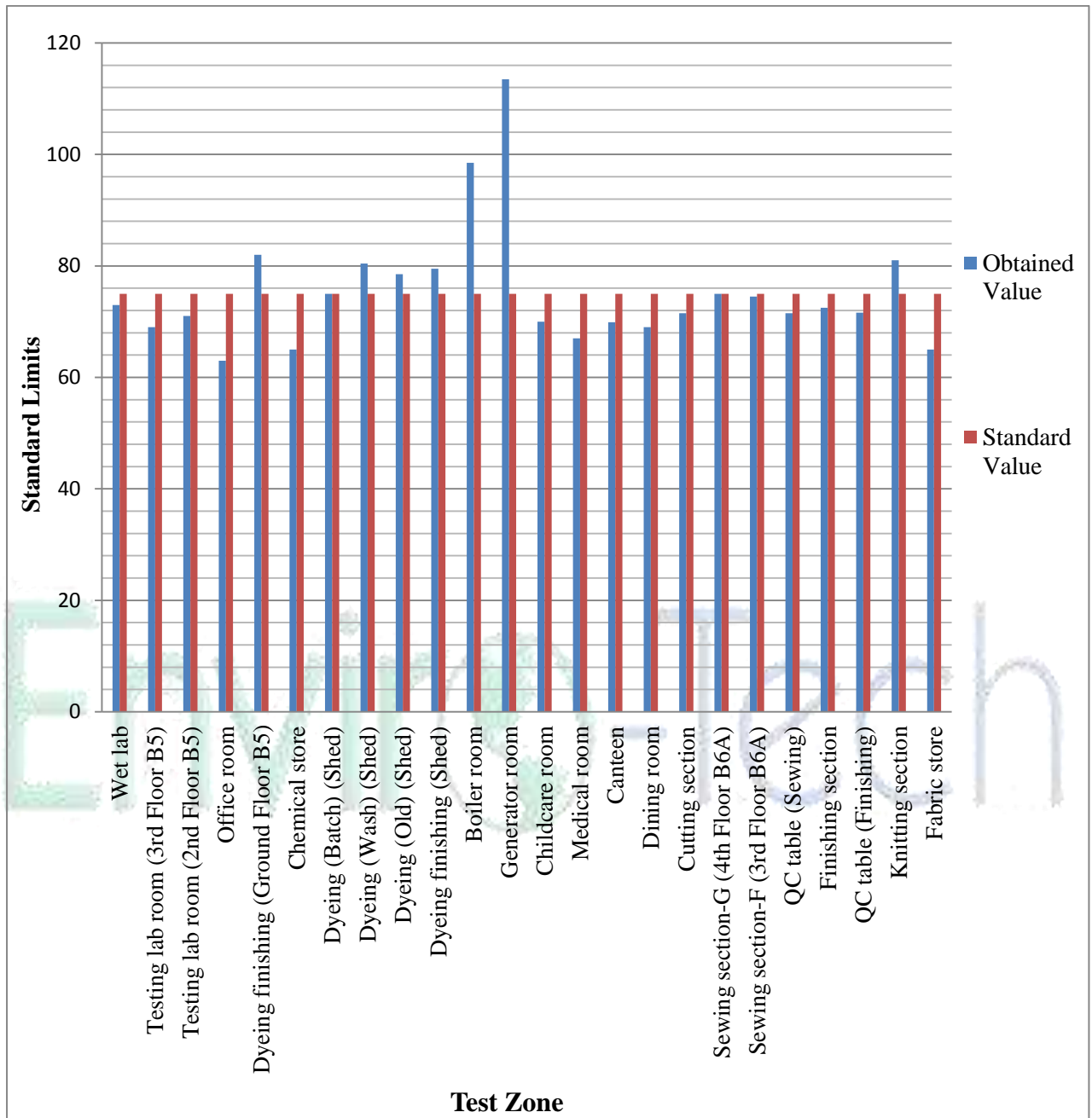


Figure: Graphical Presentation of the Sound level measurement test result

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Graphical Presentation of the Result for Building 6B:

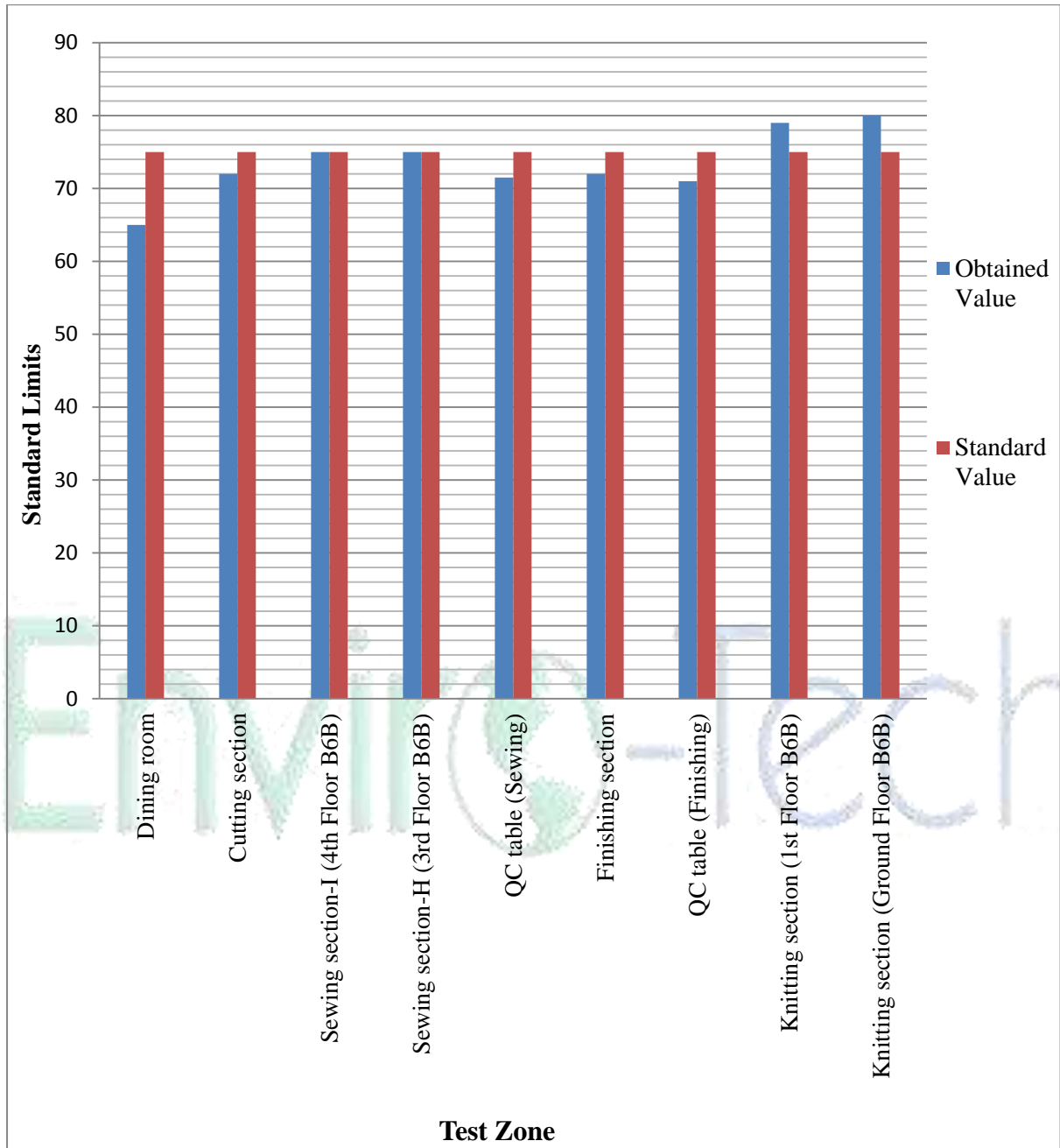


Figure: Graphical Presentation of the Sound level measurement test result

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