

## Test Report

<b>Ref No</b>	: ET/GMSCKIL/EPT-S/15-152
<b>Enterprise</b>	: GMS Composite Knitting Ind. Ltd.
<b>Factory Address</b>	: Shardagonj, Kashimpur, Gazipur, Bangladesh.
<b>Sample Description</b>	: Stack Emission (Indoor Assessment)
<b>Sampling Time</b>	: 02.00 PM - 04.00 PM
<b>Sampling Date/Date of Test</b>	: 1 <sup>st</sup> April, 2015
<b>Reporting Date</b>	: 5 <sup>th</sup> April, 2015
<b>Sampling Meter Description</b>	: TESTO 340 - FLUE GAS ANALYSER

### Machine Description:

Key Information	Generator 2	Generator 3
Location	Building	Building
Registration No.	CPP- 0409	CPP- 0409
Capacity	900 KW	900 KW
Supplier Name	Dana International	Dana International
Made in	U.S.A	U.S.A
Model/Brand	VHP 5904 LTDE	VHP 5904 LTDE
Installation Date	31/05/2014	25/05/2014
Machine maintenance/ Repair Status	Good	Good
Fuel type	Gas	Gas
Last service date	NF	NF

NF = Not Found



**Report Analyzed By:**

Sonia Sultana  
LAB Analyst  
Enviro-Tech




**Report Reviewed By:**

Md. Alim Miah  
LAB Analyst  
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## Result of the Stack Emission Testing from Gas Generator:

Serial No.	Test parameter	Results		Remarks	ECR' 1997 standards (in mg/Nm <sup>3</sup> or as indicated)	World Bank 2006 –IFC Standard (mg/Nm <sup>3</sup> or as indicated)
		Generator 2 (in mg/Nm <sup>3</sup> or as indicated)	Generator 3 (in mg/Nm <sup>3</sup> or as indicated)			
1	O <sub>2</sub> (%)	11.09%	14.19%	Acceptable	NYS	15%
2	CO	117.22	104.58	-	NYS	NYS
3	CO <sub>2</sub> (%)	0.97%	2.77%	-	NYS	NYS
4	NO	61.36	68.71	Acceptable	NYS	200
5	NO <sub>x</sub>	98.04	169.69	Acceptable	NYS	200
6	SO <sub>2</sub>	0	0	-	NYS	NYS

### Note:

O<sub>2</sub> = Oxygen

CO<sub>2</sub> = Carbon di Oxide

CO = Carbon Monoxide

(NO+NO<sub>2</sub>) = Nitrogen oxides

SO<sub>2</sub> = Sulfur di oxide

NYS = Not Yet Set.

**Comments:** The stack emission from the stack point of generator has been analyzed for the parameter of O<sub>2</sub>, CO, CO<sub>2</sub>, NO, NO<sub>x</sub> and SO<sub>x</sub> to evaluate the effect of the plants emission while running on 100% Gas on the air environment. It is observed that the emission of these parameters is within the standard range except CO and CO<sub>2</sub>. DoE/World Bank does not set the standard of CO and CO<sub>2</sub>. So that emission of these parameters does not provide harmful effect on the air environment but cautious to human health when exposed for long time. So it is recommended that gas mask should be provided to related workers to avoid occupational health hazard.



### **Report Analyzed By:**

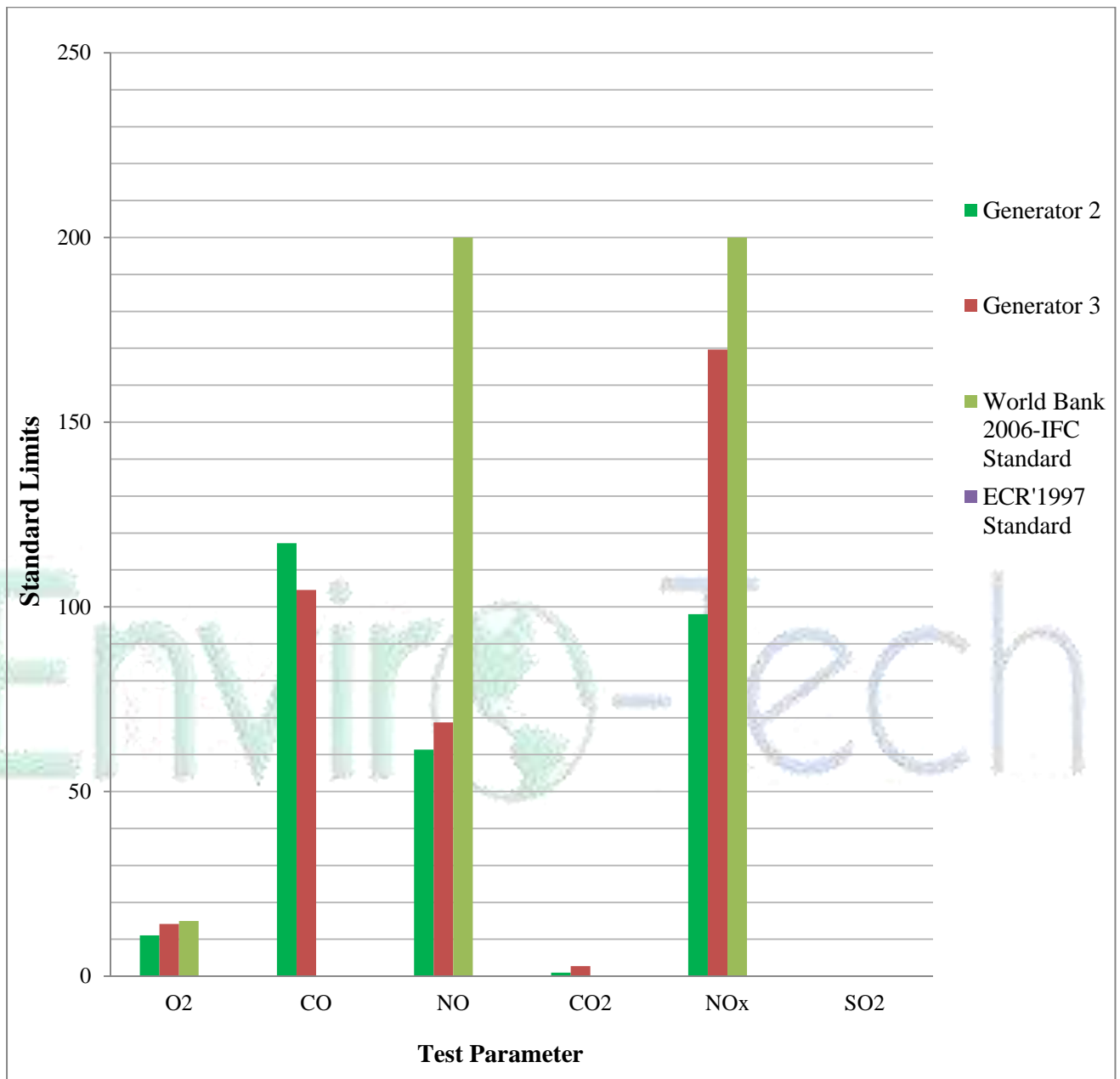
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## Graphical Presentation of Gas Generator:



**Figure: Graphical presentation of the stack emission test result from gas generator**

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