

Test Report

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

Machine Description:

| Key Information | Generator 1 |
|------------------------------------|-------------|
| Location | Building |
| Registration No. | CPP- 0409 |
| Capacity | 1030 KW |
| Supplier Name | Rahimafroz |
| Made in | Japan |
| Model/Brand | MGS 1200 C |
| Installation Date | 14/03/2013 |
| Machine maintenance/ Repair Status | Good |
| Fuel type | Diesel |
| Last service date | 28/05/2014 |

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Result of the Stack Emission Testing from Diesel Generator:

| Serial No. | Test parameter | Results | Remarks | ECR' 1997 standards | World Bank 2006 –IFC Standard (mg/Nm ³ or as indicated) |
|------------|---------------------|---|------------|---------------------|--|
| | | Generator 1 (in mg/Nm ³ or as indicated) | | | |
| 1 | O ₂ (%) | 11.95% | Acceptable | NYS | 15% |
| 2 | CO | 128.71 | - | NYS | NYS |
| 3 | CO ₂ (%) | 1.41% | - | NYS | NYS |
| 4 | NO | 90.81 | Acceptable | NYS | 1460 |
| 5 | NO _x | 147.1 | Acceptable | NYS | 1460 |
| 6 | SO ₂ | 0 | Acceptable | NYS | 860 |

Note:

O₂ = Oxygen

CO₂ = Carbon di Oxide

CO = Carbon Monoxide

(NO+NO₂) = Nitrogen oxides

SO_x = Oxides of Sulfur

NYS = Not Yet Set

Comments: The stack emission from the stack point of generator has been analyzed for the parameter of O₂, CO, CO₂, NO, NO_x and SO_x to evaluate the effect of the plants emission while running on 100% Diesel on the air environment. It is observed that the emission of these parameters is within the standard range except CO and CO₂. DoE/World Bank does not set the standard of CO and CO₂. 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.

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Graphical Presentation of Diesel Generator:

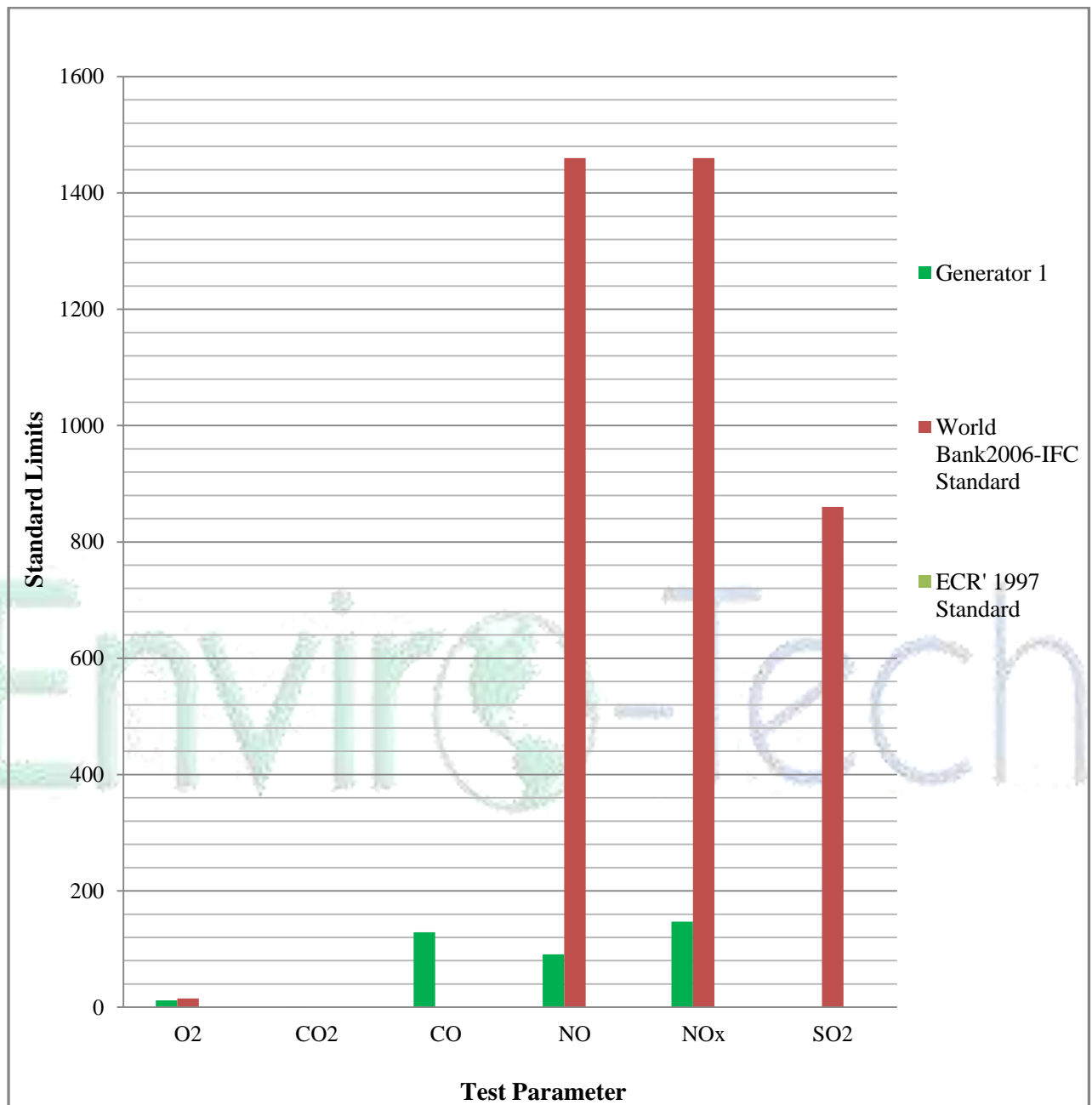


Figure: Graphical presentation of the stack emission test result from Generator

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