

AIR EMISSION INVENTORY

Factory Name :	Raiyan Knit Composite Limited	Objective of this Document: Identify the sources of emissions to air generated by the factory.
Responsible Person :	Md.Monirul Islam, Sr. Officer,EMS	
Date of update:	01.01.2020	

Point Source Emissions(Stack/Vent)

Activity	Emission Sources	Machine Model Number	Machine Type	Energy Source	Emission substance name		Quantity (as per test report)	Reference Of Relevant Standard	Unit	Test Report Date	Test Conduct By	Test Interval	Control Measure	Work Status	Responsible Person	Completion Date
Electricity production	Generator - 01(Stack)	5838571	JGS320GS-N	Natural Gas	SPM	Suspended Particulate Matter	195	DoE-350	µm/m3	15.12.2018	Greenbud	1 Year	Air pollution control Devices such as Wet Scrubber,Stack Height high	Not yet install air pollution control devices.	Maintenance Manager, GM-Admin	31.12.2021
					PM 2.5	Particulate Matter < 2.5 µm	5	WHO-25	µm/m3	15.12.2018	Greenbud	1 Year				
					PM 10	Particulate Matter<10 µm	74	EPA-150	µm/m3	15.12.2018	Greenbud	1 Year				
					CO	Carbon Monoxide	680	DoE-5000	µm/m3	15.12.2018	Greenbud	1 Year				
					NO2	Nitrogen Dioxide	69	DoE-100	µm/m3	15.12.2018	Greenbud	1 Year				
					CO2	Carbon Dioxide	4.6	----	µm/m3	15.12.2018	Greenbud	1 Year				
					NOX	Oxides of Nitrogen	78	DoE-100	µm/m3	15.12.2018	Greenbud & DoE	3 Month				
					O2	Oxygen	19	30%	Percentage	15.12.2018	Greenbud	1 Year				
Steam Production	Boiler	5578926	RGL-70/2-A	Natural Gas	SPM	Suspended Particulate Matter	210	DoE-350	µm/m3	15.12.2018	Greenbud	1 Year	Air pollution control Devices such as Wet Scrubber,Stack Height high	Not yet install air pollution control devices.	Maintenance Manager, GM-Admin	31.12.2021
					PM 2.5	Particulate Matter < 2.5 µm	8	WHO-25	µm/m3	15.12.2018	Greenbud	1 Year				
					PM 10	Particulate Matter<10 µm	86	EPA-150	µm/m3	15.12.2018	Greenbud	1 Year				
					CO	Carbon Monoxide	460	DoE-5000	µm/m3	15.12.2018	Greenbud	1 Year				
					NO2	Nitrogen Dioxide	178	DoE-100	µm/m3	15.12.2018	Greenbud	1 Year				
					CO2	Carbon Dioxide	2.9	----	µm/m3	15.12.2018	Greenbud	1 Year				
					NOX	Oxides of Nitrogen	59	DoE-100	µm/m3	15.12.2018	Greenbud & DoE	3 Month				
					O2	Oxygen	20.7	30%	Percentage	15.12.2018	Greenbud	1 Year				
Electricity production	Generator - 02(Stack)	5838571	JGS320GS-N	Natural Gas	SPM	Suspended Particulate Matter	206	DoE-350	µm/m3	15.12.2018	Greenbud	1 Year	Air pollution control Devices such as Wet Scrubber,Stack Height high	Not yet install air pollution control devices.	Maintenance Manager, GM-Admin	31.12.2021
					PM 2.5	Particulate Matter < 2.5 µm	7	WHO-25	µm/m3	15.12.2018	Greenbud	1 Year				
					PM 10	Particulate Matter<10 µm	93	EPA-150	µm/m3	15.12.2018	Greenbud	1 Year				
					CO	Carbon Monoxide	500	DoE-5000	µm/m3	15.12.2018	Greenbud	1 Year				
					NO2	Nitrogen Dioxide	61	DoE-100	µm/m3	15.12.2018	Greenbud	1 Year				
					CO2	Carbon Dioxide	3.7	----	µm/m3	15.12.2018	Greenbud	1 Year				
					NOX	Oxides of Nitrogen	210	DoE-100	µm/m3	15.12.2018	Greenbud & DoE	3 Month				
					O2	Oxygen	14.6	30%	Percentage	15.12.2018	Greenbud	1 Year				
SO2	Sulpher Dioxide	197	EPA-365	µm/m3	15.12.2018	Greenbud & DoE	3 Month									

Fugitive Emissions

Activity	Origin of Emissions	Section	Emission substance name		Quantity (as per test report)	Reference Of Relevant Standard	Unit	Test Report Date	Test Conduct By	Test Interval	Control Measure	Work Status	Responsible Person	Completion Date
Fiber Production	Dust Generated during knitting	Circular knitting	PM 10	Particulate Matter<10 µm	46.9	50	µg/m3	15.12.2018	Greenbud	1 Year	Adequate Exhaust ventilation,Used PPE	DONE	Md.Ralin islam, Sr.Executive,EMS	DONE
			PM 2.5	Particulate Matter < 2.5 µm	24.9	25	µg/m3	15.12.2018	Greenbud					
Cutting	Dust Generated during cutting	Cutting section	PM 10	Particulate Matter<10 µm	19.6	50	µg/m3	15.12.2018	Greenbud	1 Year	Adequate Exhaust ventilation,Used PPE	DONE	Md.Shohidul islam Admin officer.	DONE
			PM 2.5	Particulate Matter < 2.5 µm	7.8	25	µg/m3	15.12.2018	Greenbud					
Printing	Solvents /inks	Printing section	VOC	Volatile Organic Compound	325	500	µg/m3	15.12.2018	Greenbud	1 Year	Uses of less volatile compound,Adequate Exhaust ventilation,Used PPE,Chemical containers to be closed after used.	Continuous Process	Md.Ralin islam, Sr.Executive,EMS Md.Nazrul islam, Manager-Dyeing. Md.Shohidul islam Admin officer.	31-Dec-20
Dyeing and Dyeing finishing room	Chemicals/Dyes	Dyeing room	VOC	Volatile Organic Compound	343	500	µg/m3	15.12.2018	Greenbud	1 Year	Uses of less volatile compound,Adequate Exhaust ventilation,Used PPE,Chemical containers to be closed after used.	Continuous Process	Md.Ralin islam, Sr.Executive,EMS Md.Nazrul islam, Manager-Dyeing. Md.Shohidul islam Admin officer.	31-Dec-20

Waste Water Treatment	Equalization tank, aeration tank, clarifier tank etc.	ETP Section	VOC	Volatile Organic Compound	310	500	µg/m3	15.12.2018	Greenbud	1 Year	Uses of less volatile compound,Adequate Exhaust ventilation,Used PPE,Chemical containers to be closed after used.	Continuous Process	Md.Ralin islam, Sr.Executive,EMS Md.Nazrul islam, Manager-Dyeing. Md.Shohidul islam Admin officer.	31-Dec-19
Storage Chemicals & Dyes	Chemicals/Dyes	Chemical store	VOC	Volatile Organic Compound	275	500	µg/m3	15.12.2018	Greenbud	1 Year	Uses of less volatile compound,Adequate Exhaust ventilation,Used PPE,Chemical containers to be closed after used.	Continuous Process	Md.Ralin islam, Sr.Executive,EMS Md.Nazrul islam, Manager-Dyeing. Md.Shohidul islam Admin officer.	31-Dec-20
Wastes storage	Different Types of Waste like as empty chemical drum,Cutting jute,Sewing Dust etc.	Wastes store	VOC	Volatile Organic Compound	164	500	µg/m3	15.12.2018	Greenbud	1 Year	Properly wash used chemical drum,Adequate Exhaust ventilation,Used PPE	DONE	Md.Ralin islam, Sr.Executive,EMS Md.Shohidul islam Admin officer.	Done
			PM 10	Particulate Matter<10 µm	16.6	50	µg/m3	15.12.2018	Greenbud	1 Year				
			PM 2.5	Particulate Matter < 2.5 µm	9.7	25	µg/m3	15.12.2018	Greenbud	1 Year				

Prepared By
Md. Monirul Islam,Sr.Executive,EMS

Check By
AKM Zahirul Hoque,GM-Admin