

**ANNEXURE
ENVIRONMENTAL STATEMENT FORM-V
(See rule 14)**

Environmental Statement for the financial year ending with 31st March 2014

PART-A

- i. *Name and address of the owner/occupier
of the industry operation or process.* : **Mr. Michael Vetha Siromony
Managing Director,
Kerala Minerals & Metals Ltd.,
Chavara. 691583.**
- ii. *Industry category Primary-(STC Code) Secondary- (STC Code) :* **Red**
- iii. *Production category - Units.* : **Metallurgical**
- iv. *Year of establishment* : **2012**
- v. *Date of the last environmental statement submitted* :

PART .B

Water and Raw Material Consumption:

- i. *Water consumption in m³/d*
- Process* : **2.0 M³/day**
- Cooling* : **2.0 M³/day**
- Domestic* : **2.0 M³/day**

** Note: Present capacity utilization of plant is only 30%*

Name of Products	Process water consumption per unit of products (M³/MT)	
	During the previous financial year	During the current financial year
<i>Titanium Sponge</i>		<i>4.28 M³</i>
<i>Magnesium Chloride</i>		<i>4.28 M³</i>

ii. *Raw material consumption*

Name of raw materials*	Name of Products	Consumption of raw material per unit of output (MT/MT)	
		During the previous financial year	During the current financial year
1. <i>High purity Magnesium</i>	<i>Ti Sponge</i>		<i>1.1MT</i>
2. <i>Anhydrous pigment grade Titanium Tetra Chloride</i>	<i>MgCl₂</i>		<i>4.45 MT</i>
3. <i>Argon gas for blanketing</i>			<i>250NM³</i>
4. <i>Caustic lye for neutralizing</i>			<i>10Kg</i>
5. <i>Hydrochloric acid</i>			<i>20Kg</i>
6. <i>Vacuum oil</i>			<i>45L</i>

** Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.*

PART-C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
(a) Water	<i>1800 Kg/day</i>	<i>As per KSPCB norm</i>	<i>No deviation</i>
(b) Air(Intermittently)	<i>12000Nm³/hr</i>	<i>As per KSPCB norm</i>	<i>No deviation</i>

PART-D

HAZARDOUS WASTES

(as specified under Hazardous Wastes (Management & Handling Rules,1989).

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
1. From Process (Used Oil)		6.75KL
2. From Pollution Control Facilities		

PART . E

SOLID WASTES:

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From process		3.5 MT * (Non Hazardous)
b. From pollution Control Facility		
c. Quantity recycled or re-utilized within the unit		

**The same will be utilized for secured land filling.*

PART - F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Used oil collecting in drums and disposal will be thorough KSPCB approved oil processing parties.

Quantum of generation of solid waste

Sl. No.	Type of waste	Quantity	Disposal
1	MgCl ₂ Salt	3.5 MT * (Non Hazardous)	Secured land filling

PART – G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

As part of conservation of natural resources, installed solar water heater and solar lamps(50nos).

PART - H

Additional measures/investment proposal for environmental protection including abatement of pollution.

Natural ponds of 9000 M3 has been modified for rain water harvesting (for recharge of ground water by percolation)

PART - I

MISCELLANEOUS:

Any other particulars in respect of environmental protection and abatement of pollution.

- 1. As part of green belt development, 33% of areas are provided with tree and other plants*
- 2. Planted around 640 Nos .of trees, plants and saplings including mango trees, coconut trees and acacia trees.*