

FORM – V
(See rule 14)

Environmental Statement for the financial year ending the 31st March 2016

PART – A

1.	Name and address of the Owner/Occupier of the Industry, operation or process	:	STAR CEMENT MEGHALAYA LTD. VILL+PO: LUMSHNONG, DIST: EAST JAINTIA HILLS MEGHALAYA - 793210
2.	Industry Category: Primary (STC Code); Secondary (SIC Code)	:	RED CATEGORY, LARGE
3.	Production Capacity	:	1.75 MTPA (CEMENT CLINKER PRODUCTION PLANT)
4.	Year of Establishment	:	2013
5.	Date of the last environmental statement submitted	:	25.09.2015

PART – B

Water and Raw Material Consumption:

(I) Water Consumption (m³/day)

Process & Cooling : 372.03 m³/day

Domestic : 148.98 m³/day

Name of Products	Process water consumption per unit of product output	
	During the previous financial year (2014-15)	During the current financial year (2015-16)
	1	2
Cement Clinker	0.0622 KL/MT	0.0754 KL/MT

(II) Raw Material Consumption:

Sl. No.	Name of raw materials*	Name of Products	Consumption of raw material per unit of output	
			During the previous financial year (2014-15) in MT	During the current financial year (2015-16) in MT
1.	Lime Stone	Cement Clinker	2038770.000	2201057.000
2.	Shale		226981.000	238292.000
3.	Mill Scale		6365.000	4064.000
4.	Iron Ore (fines)		10093.000	706.000
5.	Latrite		15735.000	41258.000
6.	Coal		149156.337	98037.643
7.	Clay		78190.000	54453.000
8.	Mslate		160152.057	232946.266

* 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)

Sl. No.	Pollutants	Quantity of Pollutants discharge (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
a.	Water	N.A.	N.A.	There is no perennial Water course in the Lease or in nearby area.
b.	Air (Ambient Air Quality Monitoring & Stack Emission Monitoring)	Annexure - 1		Particulate matters value are well within the prescribed limits stipulated by concerned regulatory authorities.

PART – D

Hazardous Wastes:

(As specified under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 amended till date.

Sl. No.	Hazardous Waste	Total Quantity (Kg.)	
		During the previous financial year (2014-15)	During the current financial year (2015-16)
a.	From Process		
(i)	Used Oil*	2153 Ltrs.	1600 Ltrs.
(ii)	Used Grease*	4186 Kgs.	3822 Kgs.
b.	From Pollution Control facilities	N.A.	N.A.

* All the quantity of used oil & used grease come out as reject from different gear application and bearings are sold to authorized recycler & used in in-house.

PART – E

Solid Wastes:

Sl. No.	Solid Waste	Total Quantity (Kg.)	
		During the previous financial year (2014-15)	During the current financial year (2015-16)
a.	From Process	Nil	Nil
b.	From Pollution Control facilities	Nil	Nil
c.	Quantity recycled or reutilized	Nil	Nil

PART – F

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

Sl. No.	Description of Hazardous Waste	Qty. of waste generated during the year	Disposal Method
1.	Used /Spent Oil	1600 Ltrs.	Sold to authorized Recycler.
2.	Used Grease	3822 Kgs.	

Other Solid Waste:

Sl. No.	Description of Waste	Qty. of waste generated during the year (MT)	Disposal Method
1	Iron Scrap	157.470	Sold to authorized vendor
2	Old & used I.T. materials	1 Lot	
3	Scrap & Steel (Mng)	24.160	

PART – G

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

- The plant is equipped with Air Pollution Control devices such as RABH, ESP, Jet Pulse Filters etc. designed to control the emission (SPM) level below 30 mg/Nm³ from any of the stacks installed at our plant.
- Total 3 nos. of opacity monitor already installed in Raw Mill & Kiln Stack, Coal Mill Stack & Cooler ESP stack and real time data are being transferred to CPCB, New Delhi.
- Continuous Ambient Air Quality Monitoring Station already installed and real time data connectivity to State Pollution Control Board & Central Pollution Control Board.
- In addition, we are successfully managing the ambient SPM level below the prescribed levels by way of putting up Jet Pulse Filters at each of the transfer points, covered belt conveyers, water sprinklers for raw materials and mostly paved surfaces for vehicular movement inside the plant premises.
- The large amount of dust collected in the above mentioned dust catchers. This dust is recycled to the system, so as to convert finally to the product. These ways the natural resources are conserved in the system.
- The Pollution abatement practices adopted by us save precious raw material/ product and greatly help in conserving valuable natural resources. Ultimately reducing the manufacturing cost.

PART – H

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

- Development of greenbelt in & around the plant & colony.
- Water tanker is used for spraying in the plant area as well as the nearby regularly for dust suppression.
- Mechanized cleaning of roads & floor area within the plant premises using road sweeper (mobile vacuum cleaner).
- Replacement of Conventional Fluorescent lamps with energy efficient T5 lamps for energy conservation.
- Suitable interlocks have been provided for Gear box & Girth Gear Cooling fans to avoid idle running of these fans.
- Installation of Variable Frequency Drives in Water Pumps & automation of plant water supply system, resulting in reduction of Power consumption of Plant water supply system.

PART – I

Any other particulars for improving the quality of the environment.

Environment Management System Improvement:

- Quarterly EHS inspection of all the sections through the plant premises.
- Awareness promotion through various environmental training, environmental competitions, presentations etc. on World Environment Day, Energy Conservation Day etc.
- Water sprinkling on the unpaved surface for dust suppression.
- Development of greenbelt in & around the plant & colony (total 14030 nos. species already planted). The tree species planted are Neem, Khokon, Champa, Agarwood, Mahagony, Bokul, Mango, Litchi, Black Jamun, Almond, Cycus, Green Hedge, Coloured Hedge, Fycus, Royal Plam, Areca Plam, Thuja, Red Bottle Brush, Ashoka, Gulmohor, Golden Bottle Brush, Chinese Plam, Night Jasmine, Ceylon, Tahiti, Aclypha, Hibiscus, yucca Aloifolia, Phonix, Furcraea, Budhist Bamboo, Bougenvelia, Draceena, Calendula, Crysenthemum, Phlox, Merigold, , Primola, Rananculus, Statics, Cosmos, Dianthus, Dhalia, Gazania, Poppy, Petunia, Lily, Anthurium, Bolsom, Verbena, Salvia, Vinka, Exora, Celosia etc. Rate of survival 93%.
- Proper lubrication and housekeeping to avoid excessive noise generation.

Annexure – 1

Ambient Air Quality Monitoring Report (Average Value)

Name of the Station	Particulate Matters 10 Micron Size ($\mu\text{g}/\text{m}^3$)	Particulate Matters 2.5 Micron Size ($\mu\text{g}/\text{m}^3$)	Sulphar Dioxide ($\mu\text{g}/\text{m}^3$)	Nitrogen Dioxide ($\mu\text{g}/\text{m}^3$)
Near Pump House	55.62	34.74	6.67	9.62
New Worker Colony	51.58	31.25	5.86	9.49
Near Behind MPL DM Plant	54.84	34.16	6.59	9.84
Near Water Reservoir	50.70	30.36	5.86	9.54
Near Raw Mill Hopper	57.19	36.48	6.82	9.74

Stack Emission Monitoring Report (Average Value)

Name of the Stack	Particulate Matters mg/Nm^3
Limestone Crusher – Bag Filter	18.78
Additive Crusher – Bag Filter	18.27
Kiln & Raw Mill	21.60
Coal mill – Bag Filter	26.25
Cooler ESP	22.51