FORM – V

(See rule 14)

Environmental Statement for the financial year ending the 31st March 2017

PART – A

1.	Name and address of the Owner/Occupier of the Industry, operation or process	:	**MEGHALAYA POWER LIMITED** VILL+PO: LUMSHNONG, DIST: EAST JAINTIA HILLS MEGHALAYA – 793210
2.	Industry Category: Primary (STC Code); Secondary (SIC Code)	:	COAL BASED POWER PLANT
3.	Production Capacity	:	43 MW
4	Year of Establishment	:	2013
5	Date of the last environmental statement submitted	:	22.09.2016

PART – B

Water and Raw Material Consumption:

(I) Water Consumption (m^3/day)

Process & Cooling : 595.84 m^3/day

Domestic : 63.38 m^3/day

Name of Products	Process water consumption per unit of product output	
	During the previous financial year (2015-16)	During the current financial year (2016-17)
	1	2
Power	0.00123 KL/Unit	0.00108 KL/Unit

(II) Raw Material Consumption:

S. No.	Name of raw materials*	Name of Products	Consumption of raw material per unit of output	
			During the previous financial year (2015-16) in MT	During the current financial year (2016-17) in MT
1.	Coal	Power	0.00090992	0.00098568

** 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)

S. 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, 2016 amended till date.

S. No.	Hazardous Waste	Total Quantity (Kg.)	
		During the previous financial year (2015-16)	During the current financial year (2016-17)
a.	From Process		
(i)	Used Oil*	6045 Ltrs.	6346 Lts.
(ii)	Used Grease*	Nil	Nil
b.	From Pollution Control facilities	N.A.	N.A.
*All the quantity used in Boiler with coal.			

PART – E

Solid Wastes:

Sl. No.	Solid Waste	Total Quantity (Kg.)	
		During the previous financial year (2015-16)	During the current financial year (2016-17)
a.	From Process **(Fly Ash)**	95486320	98993560
b.	From Pollution Control facilities	NA	NA
c.	Quantity recycled or reutilized	Utilized in Cement Plant	Utilized in Cement Plant

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	**6346 Ltrs.**	All the quantity used in Boiler with coal.
2.	Used Grease	**Nil**	

Other Solid Waste:

S. No.	Description of Waste	Qty. of waste generated during the year (MT)	Disposal Method
1	Iron Scrap	**117.420 MT**	**Sold to authorized vendor**

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 ESP, Bag Filters, ash conditioners and ash silos etc. to designed to control the emission (SPM) level below 50 mg/Nm^3 from any of the stacks installed at our plant.
- 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, fully mechanized system for Fly Ash handling, covered belt conveyors, water sprinklers for raw materials and mostly paved surfaces for vehicular movement inside the plant premises.
- 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.
- Sprinklers & water tankers are used for spraying in the plant area as well as the nearby regularly for dust suppression.
- Replacement of Conventional Fluorescent lamps with energy efficient T5 lamps for energy conservation.
- Installation of Variable Frequency Drives (VFDs) at fans & automation of plant water supply system.

PART – I

Any other particulars for improving the quality of the environment.

Environment Management System Improvement:

- Periodical review of EMS including compliance of environmental laws through periodic Management Review & Quality forums.
- 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.
- Proper provision of acoustic enclosure, silencers to vents lubrication and housekeeping to avoid excessive noise generation.

Annexure – 1

Ambient Air Quality Monitoring Report

(Average Value)

Name of the Station	Respirable Suspended Particulate Matters ($\mu g/m^3$)		Gaseous Emission ($\mu g/m^3$)	
	PM_{10}	$PM_{2.5}$	SO_2	NO_2
Behind MPL DM Plant	60.98	39.42	8.21	11.17
Near Steel Yard	60.23	38.54	8.06	11.49
Near ADM Office	55.28	33.9	6.41	9.61
Near CHP Screen	61.57	39.71	8.11	12

Stack Emission Monitoring Report

(Average Value)

Name of the Stack	Particulate Matters (mg/Nm^3)
ESP	22.13