

Ref: GMR/EMCO/MPCB/13-14/219

10th Jan, 2014

To
Regional Officer
MPCB
Mahavir Towers, 2nd floor
Mul Road, Chandrapur -442401

Sub: EMCO Energy – Submission of the Environment statement (Form V)

Dear Sir

We are pleased to submit the Environment statement of our plant for the period FY 12-13 and current half yearly statement FY 13-14 under prescribed form V as compliance for general condition given in schedule IV of the consent.

This is for your reference & records. Request you to kindly acknowledge the same.

Thanking you

Yours faithfully,

For and on behalf of EMCO Energy Limited



Dhananjay Deshpande
(VP –O & M Head)

CC: RO, MPCB, Chandrapur

F O R M - V
(See Rule 14)

From:

EMCO Energy Limited

To:

The Regional Officer,
Maharashtra Pollution Control Board,
Mahavir Tower, I Floor, Mul Road,
Chandrapur – 442401.

Environmental Statement from April'13 to September- 2013

PART – A

- (i) Name and address of the owner / occupier of the industry operation or process : Shri Dhananjay Deshpande
GMR EMCO Energy Ltd.
B1, Mohabala, MIDC Growth Centre
Warora, Dist Chandrapur
Maharashtra - 442907
- (ii) Industry category – Primary – (STC Code) Secondary – (SIC Code) : Thermal Power Plant.
- (iii) Production capacity Units : 2 x 300 MW
- (iv) Year of establishment : 4th August, 2005
- (v) Date of the last Environmental Statement submitted : COD of Unit-1 & Unit-2 declared on 19th Mar'13 and 1st Sept'13 respectively. Latest EC compliance report submitted for Unit-1 in the month of Jan'13 and Unit-2 in the month of May'13.

PART – B

Water and Raw Material Consumption

(1) Water consumption M³ / year

Process Usage	:	2515178
Cooling spraying in stock piles	:	2800
Domestic usage	:	81710

Total : 2599688

Name of Products	Raw water consumption	
	During the previous financial year (2012-13)	During the current financial year(2013-14)
	(1)	(2)
(1) Power	754058 M3	2599688 M3

(ii) Raw material consumption

Name of raw material	Name of products	Consumption of raw material per unit of output	
		During the previous financial year (2012-2013)	During the current financial year (2013-2014)
		(2)	(2)
Specific Coal Cons.	Power	0 kg/kwh	783 Gm/kwh
Specific Oil Cons.		0 ml/kwh	7.46 ml/kwh

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 in discharged (mass / volume)	Percentage of variation from prescribed standards with reasons
(a) Water	Trade Effluent: 3216 M3 /day (on average Basis.) Same has been retreated and utilized as process make up in cooling tower and boiler feed through DM plant. Domestic: 108 M3/day (Utilized for gardening purpose)	Well maintained within limits prescribed by MPCB under Consent	NIL
(b) Stack Emission		PM : 43 mg/Nm ³ SO ₂ : 498 mg/Nm ³ NO _x : 93 mg/Nm ³ NH ₃ : 0.6 ppm	Parameters are well maintained Within limit.

PART – D

[As specified under Hazardous Wastes (Management and Handling) Rules, 1989]

Hazardous Waste	Total Quantity (Kg.)	
	During the previous financial year (2012-13)	During the current financial year (2013-14)
(a) From process		
(i) Waste oil/ Spent Oil	0 KL	9.45 MT
(ii) Sludge from waste water treatment.	0 MT	Nil
(b) From pollution control facilities	--- N.A ---	

PART – E –Solid Waste

	Total Quantity (MT.)	
	During the previous financial year (2012-13)	During the current financial year (2013-14)
(a) From process	24310 MT	203939 MT
(b) From pollution control facilities	--	--
(c) (1) Quantity recycled or re-utilized within the unit.	0 MT	0 MT
(2) Solid (Free sold to cement based manufacturer)	15600 MT	104526 MT
(3) Disposed (In own ash pond area)	8710 MT	3191 MT
(4) Ash utilized for bricks manufacturing/mine filling purpose.	4398.34 MT	96222 MT

PART – F

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

1. Disposal Method :-

(a) **Used Oil:** - Generated waste oil was selling through authorized recycler dealer M/s Nova Lubes Pvt. Ltd, Nagpur.

2. Disposal Method :-

(a) **Dry Ash Disposal:**-Ash generated is disposed in dry condition only. Fly ash & bed ash is collected in silos & dispose through closed container.

(b) At present 100 % dry ash utilized / disposal off as under.

- (i) Giving to surrounding agencies for manufacturing of ash based products.
- (ii) Utilized in miscellaneous work like concrete, approach road, filling in low-lying area etc
- (iii) Ash is supplying to cement based industry.
- (iv) Some quantity of ash dumps in ash pond.

PART – G

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

- | | |
|---|---|
| (i) Adopted Dry Ash Disposal | (a) Reduce the cost of generation.
(b) Reduce consumption of water |
| (ii) Installed Industrial Vacuum Cleaning machine & Dry Fog System in Coal Handling System. | (a) Reduce fugitive dust emission.
(b) Wastage of coal minimizes. |

PART – H

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

- 1) Horticulture development work is under progress near new administration building & in plant premises
- 2) Horticulture contract awarded to M/s Tropical Ecological.

On behalf of M/s EMCO Energy limited



(Dhananjay Deshpande)

VP – O & M Head

