

FORM – V

(See Rule 14)*

Date: 04.04.2022

From:

M/s, Essar Power Gujarat Limited,
44 km Milestone on Jamnagar-Okha Highway
Post Box No: 07, Taluka: Khambhaliya,
Dist.: Devbhoomi Dwarka – 361 305

To,

The Member Secretary
Gujarat Pollution Control Board,
Paryavaran Bhavan,
Sector-10A,
Gandhinagar - 382 010

Environmental Statement for the financial year ending the 31st March - 2022

PART – A

- (i) Name and address of the owner/ occupier of the industry operation or process : **Shri Kush Singh,**
Director & Chief Technical Officer
Essar Power Gujarat Limited,
Post Box No: 07, Taluka: Khambhaliya,
Dist.: Devbhoomi Dwarka – 361 305
- (ii) Industry category –
Primary – (STC Code)
Secondary – (SIC Code) : ---
- (iii) Production Capacity Units : 1200 MWH
- (iv) Year of Establishment : April 2012
- (v) Date of the last Environmental Statement submitted : 20.04.2021

*Submission of Environmental Statement is in accordance with the provisions of Rule-14 of the Environment (Protection) Amendment Rules, 1993 of the Environment (Protection) Act, 1986 (29 of 1986) published vide Notification dated 22/04/1993 G.S.R. 386 (E) in the Gazette of India-Extraordinary- Part – II Section 3 Subsection (i), No.155 dated 28-04-1993 by the Ministry of Environment and Forests, Government of India; read with the Notification dated 13-3-1993 G. S. R. 329 (E), of the Gazette of India – Extraordinary Part – II Section – 3 subsection (i) No.120 dated 13-3-1993

“Every person carrying on an industry, operation or process requiring consent under Section-25 of the Water (Prevention & Control of Pollution) Act, 1974 (6 of 1974) or under Section-21 of the Air (Prevention & Control of Pollution) Act, 1981 (14 of 1981) or both or authorization under the Hazardous Wastes (Management and Handling) Rules, 1989 published under the Environment (Protection) Act, 1986 (29 of 1986) shall submit an Environmental Statement for the financial year ending the 31st March in Form V to the concerned State Pollution Control Board on or before the Thirtieth day of September every year, beginning 1993.”

PART – B

Water and Raw Material Consumption

(1) Water Consumption (M³/day) (Period: April 2021 to March 2022)

Process : 12 (Total per year 4372)

Cooling : 0 (Total per year 0) (Sweet Cooling Water Makeup)

Domestic : 671 (Total per year 244775) (Potable Water)

Name of Products	Process Water consumption per unit of product output (Process Water (m ³) / MWH)	
	During the previous Financial year (2020 - 2021)	During the current financial year (2021 - 2022)
	(1)	(2)
(1) Power	2.4 m ³ /MWH	N.A.*

*Power plant shutdown during entire reporting period.

(ii) Raw material consumption

Name of raw Material	Name of Product	Consumption of raw material per unit of output (MT of Material/ MW of Power produced)	
		During the previous Financial year (2020 - 2021)	During the current Financial year (2021 - 2022)
Coal (MT)	Power	0.49	0.0
Water (KL)		2.37	N.A.
LDO (KL)		0.00019	0.0
HFO (MT)		0.00017	0.0

PART – C

Pollution discharged to environment/unit of output
(Parameters 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 reason
SO ₂	0.0 Ton/day for 2 flue cane	0.00 mg/Nm ³	Nil
NO _x	0.0 Ton/day for 2 flue cane	0.00 mg/Nm ³	Nil
PM	0.0 Ton/day for 2 flue cane	0.00 mg/Nm ³	Nil

Note: No effluent was discharged as entire quantity of treated waste water was reused/recycled as Horticulture/Coal/Ash handling and Sprinkling within Power Plant premises.

PART – D

HAZARDOUS WASTES

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

Hazardous Waste	<u>Total Quantity Generated (MT)</u>	
	During the previous Financial year	During the current financial year
(a) From Process (Used Oil)	4.4	0
(b) Empty Drums (Number)	915 (0.5 MT)	0
(c) Waste Resin (MT)	0	0
(d) From Pollution control Facilities (ETP Sludge)	-	-

PART – E

SOLID WASTE

	<u>Total Quantity (MT)</u>	
	During the previous Financial year	During the current financial year
	(2020 - 2021)	(2021 - 2022)
Fly Ash		
From Process		
(a) From Pollution control Facilities	221607	0
(b)		
(1) Quantity recycled or reutilized within the unit	19752	0
(2) Sold	215475	0
(3) Disposed	0	0

PART – F

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

Hazardous waste is collected at temporary storage area. We have obtained the membership of secured landfill facility by M/s, Sauarashtra Enviro Projects Pvt Ltd, Surat and hazardous waste will be disposed to SEPPL accordingly.

PART – G

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

Power Plant is commissioned in April 2012. Adequate Pollution control measures adopted to control the pollution in plant. The impact of these measures is following.

- (i) Ambient Air Quality is within NAAQ Standards.
- (ii) Emissions form stacks are less than the limit stipulated in Consolidated Consent & Authorization (CC&A).
- (iii) Treated wastewater is recycled/reused, thus saving good amount of natural resources.

PART – H

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

- (i) Fixed continuous ambient air monitoring stations – 01 Nos.
- (ii) Continuous Emission Monitoring System from Stack – 02 Nos.

PART – I

Any other particulars for improving the quality of the environment.

1. Water conservation program is under implementation, We are trying to achieve specific water consumption below 2.37 cubic meter/ MW against MoEF guidelines of 3.5 cubic meter / MW.
2. 100% reuse of treated effluent for coal handling, ash handling, greenbelt, dust suppression achieved.
3. Effective working of dust suppression and dust extraction system at coal handling as well as on road for ash transportation by re-use of treated wastewater.


(Signature of a person carrying out an industry, operation or process)

Date: 04 / 04 / 2022

Name : **Dr. Pratik Mehta**
Designation : Head HSEF
Address : Essar Power Gujarat Limited,
Post Box No: 07,
Taluka: Khambhaliya,
Dist.: Devbhoomi Dwarka – 361 305