

Ref: LAPL/PWR/HSE/PUB/L3/IOC/CECB/ 1327

13.09.2021

To
Regional Officer,
Chhattisgarh Environment Conservation Board,
Korba, Chhattisgarh

Sub: - Environment Statement for 2x300 MW coal based thermal power plant for the FY 2020-21.

Dear Sir,

Please find enclosed herewith Environment Statement for 2x300 MW coal based power plant for the FY 2020-21 in the prescribed format Form-V.

This is for your information please.

Thanking you,

Your Sincerely,

For LancoAmarkantak Power Limited



Authorized Signatory



Encl: - Form- V

- CC**
1. The Member Secretary, CECB, Raipur
 2. The Member Secretary, CPCB, Parivesh Bhavan East Arjun Nagar, Delhi-32.
 3. The Additional Director, MoEFCC, Pariyavaran Bhawan, Jorbagh Road Aliganj, New Delhi

LANCO AMARKANTAK POWER LIMITED

Corporate office: Lanco House Plot # 397, Udyogvihar Phase – 3, Gurgaon 122 016, Haryana, India

T+91-124-474 1000 F+91-124-474 1024

Registered office: Lanco House, Plot No-4, Software Units Layout, HITEC City, Madhapur, Hyderabad-500 081, A.P, India

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Project office: Village – Pathadi, P.O.-Tilkeja, Dist-Korba, Chhattisgarh-495 674

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Corporate Identity Number CIN- U40109TG2001PLC036265

ENVIRONMENTAL STATEMENT

OF

**LANCO AMARKANTAK POWER LTD.
Patadi, Korba C.G.**

FINANCIAL YEAR ENDING THE 31ST MARCH, 2021

**Prepared by:
Lanco Amarkantak Power Ltd
Patadi, Korba (C.G.)**

ENVIRONMENTAL STATEMENT

FORM-V

(See Rule 14)

Environmental Statement for the Financial Year ending the 31st March 2021

PART- A

- i Name and address of the occupier : Mr. Kothapalli Venkata Sudhirbabu
Director Lanco Amarkantak Power Ltd Patadi,
Korba C.G.
- ii Industry Category
Primary - (STC Code) : Red
Secondary - (SIC Code) :
- iii Production Capacity (Power) : 2 X 300 MW (600 MW)
- iv Year of Establishment : 2009 (UNIT- I) & 2010 (UNIT- II)
- v Date of the last Environmental
Statement submitted : September 2020



②

PART - B

WATER AND RAW MATERIAL CONSUMPTION

a. Water Consumption for the period (Apr'20 - March'21)

1. Process : NIL m³/day
2. Cooling & Boiler Feed : 26930.35 m³/day
3. Domestic : 187m³/day

Name of Product	Process Water Consumption per Unit of Product Output	
	During the previous year (2019-20)	During the current year (2020-21)
Power Generation	2.34M ³ /MWhr	2.176 M ³ /MWhr

b. Raw Material Consumption

Name of Product	Name of Raw Materials	Unit	Consumption of Raw Material Per Unit of Output	
			During the previous Financial Year (2019-20)	During the current financial year (2020-21)
POWER	Fuel Oil	KL	521.21	395.31
	Coal	MT	2418174	2999344

PART - C

POLLUTION DISCHARGED TO ENVIRONMENT /UNIT OF OUTPUT

a. Water

- Effluent quantity : 2916.34 KL/day
Domestic effluent quantity : 99.8 KL/day

Average of Treated Effluent Monitoring Data for financial year 2020-21

Sr. No.	Parameters	Average of all Waste water Monitoring Results for Financial Year	Maximum Permissible Limit	Variance (exceeding allowed Quantity)
1	BOD	14.55	30 mg/L	No deviation
2	COD	42.33	250 mg/L	No deviation
3	TSS	41.54	100 mg/L	No deviation
4	Oil & Grease	<1.0	10 mg/L	No deviation

- Treated effluent is being 100% utilized in ash slurry preparation & sprinkling at coal handling plant. Plant is operating at Zero Discharge.



Average of Treated Sewage effluent Monitoring Data for financial year 2020-21

Sr. No.	Parameters	Average of all Waste water Monitoring Results for Financial Year	Maximum Permissible Limit	Variance (exceeding allowed Quantity)
1	BOD	13.58	30 mg/L	No deviation
2	COD	43.57	250 mg/L	No deviation
3	TSS	37.79	100 mg/L	No deviation
4	Oil & Grease	<1.0	10 mg/L	No deviation

- Treated domestic effluent is being 100% utilized in horticulture & plantation inside the residential premises.

b. Air

Stack Emissions & Pollution Load (2020-21)					
Sr. No.	Stack Attached to	Pollutant	Average of all Stack Monitoring Results for Financial Year	Maximum Permissible Limits	Variance (exceeding allowed Quantity)
1	Boiler Unit # I	SPM mg/Nm ³	44.13	50 mg/Nm ³	No deviation
		SO ₂ mg/Nm ³	784.35	600 mg/Nm ³	184.35 mg/Nm ³
		NO _x mg/Nm ³	275.02	450mg/Nm ³	No deviation

Stack Emissions & Pollution Load (2020-21)					
Sr. No.	Stack Attached to	Pollutant	Average of all Waste water Monitoring Results for Financial Year	Maximum Permissible Limits	Variance (exceeding allowed Quantity)
1	Boiler Unit # II	SPM mg/Nm ³	44.96	50 mg/Nm ³	No deviation
		SO ₂ mg/Nm ³	792.33	600 mg/Nm ³	192.33 mg/Nm ³
		NO _x mg/Nm ³	277.68	450mg/Nm ³	No deviation





DG Stack #1 Emissions & Pollution Load (2020-21)					
Sr. No.	Stack Attached to	Pollutant	Average of all Stack Monitoring Results for Financial Year	Maximum Permissible Limits	Variance (exceeding allowed Quantity)
1	DG No.# I	Particulate Matter	38	75 mg/Nm ³	No deviation
		Carbon monoxide	43	150 mg/Nm ³	No deviation
		Oxide of Nitrogen	242	710 mg/Nm ³	No deviation

DG Stack #2 Emissions & Pollution Load (2020-21)					
Sr. No.	Stack Attached to	Pollutant	Average of all Stack Monitoring Results for Financial Year	Maximum Permissible Limits	Variance (exceeding allowed Quantity)
1	DG No.# II	Particulate Matter	35	75 mg/Nm ³	No deviation
		Carbon monoxide	45	150 mg/Nm ³	No deviation
		Oxide of Nitrogen	238	710 mg/Nm ³	No deviation

c. Ambient Air Quality Monitoring

Sr. No.	Parameters	Average of all Ambient Air Quality Results for Financial Year	Maximum Permissible Limit (Annual avg.)	Variance (exceeding allowed Quantity)
1	PM-10	51.1	60 µg/Nm ³	No deviation
2	PM-2.5	25.6	40 µg/Nm ³	No deviation
3	SO ₂	16.3	50 µg/Nm ³	No deviation
4	NO _x	17.7	40 µg/Nm ³	No deviation

d. Ambient Noise Level

Sr. No.	Noise Level Monitoring	Average of all Ambient Air Noise Results for Financial Year	Maximum Permissible Limit	Variance (exceeding allowed Quantity)
1	Noise Level-Day	55.79	75 dB(A)	No deviation
2	Noise Level-Night	51.79	70 dB(A)	No deviation





PART-D

As specified under Hazardous Waste (Management & Handling & Trans-boundary movement rules) Amendment Rules 2008, Amended 2017

Sr. No.	Hazardous Wastes	Total Quantity (Liters)	
		During the previous financial year (2019-20)	During the current financial year (2020-21)
1.	Used Oil	4626	5212
2.	Waste Oil	-	-

**PART - E
SOLID WASTES**

Sr. No.	Details	2019-20	2020-21
1.	Bottom Ash	192157.65 MT	231306.612 MT
2.	Fly Ash	768630.60 MT	925226.448 MT

PART-F

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

A. Non Hazardous Solid Waste

Solid Waste generation : Fly ash
Total FLY Ash Generated : 1156533.06 MT
Cumulative Fly ash utilization (FY) : 515880 MT
Practice Adopt : Supplied to cement industry and brick manufacturing units for utilization.

Hazardous Liquid Waste:
Waste Generation : Used Oil
Total Used Oil Generation : 5.212 KL
Cumulative Used Oil Disposal (FY) : 5.212 KL
Practice Adopted : Reprocessed thorough authorized recycler.



PART - G

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

1. The treated water from the CMB and cooling tower blow down are used in ash slurry preparation.
2. The treated water from sewage treatment plant is used for gardening & ash slurry purpose.
3. Specific water consumption has been maintained around 2.176 M³/MWHr against stipulated limit of 3.5M³/MWHr.

PART - H

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

1. Online Environment data from CEMS, AAQMS and EQMS are being uploaded to the CPCB/CECB server.
2. Greenbelt development carried out in plant premises by planting more than 5000 saplings.
3. Remedial measure taken for ash utilization
 - Request for open cast mines void allocation is pending to SECL authorities for ash filling. Already MS, CECB, Raipur ordered to ash dispose in manikpur OCM.
 - Made MOU/agreement with cement industries in CG with sharing cost of transportation of dry ash.
 - Made MOU/Agreement with brick industries for free supply of dry ash.
 - Approached road project contractors to use fly ash for road project from our plants, as per norms NHAI/PWD to use fly ash from nearby plants
 - Exploring nearby villages having low lying areas and required leveling by ash filling.

PART - I

Any other particulars for improving the quality of the environment

- Installation of PTZ camera at outlet of plant premises for monitoring of Zero liquid discharge.
- Environment awareness programs are conducted for all LAPL, Contractors employees and their families, nearby local community through different promotional activities, painting, drawing, and poster quiz competition etc. on the occasion of World Environment Day.
- Knowledge sharing on Environmental issues /legal updates is also conducted inside the plant for regular and contractor employees at regular time to time.
- Plantation carried out during Plantation "Mahabhiyaan"&World Environment Day/Week 2021 for 5000 saplings.



Name : Mr. Yenugula Dharaninder
Designation : Executive Director
Date : 13.09.2021
Address : Lanco Amarkantak Power Limited



