LANCO

Always inspiring

Ref: LAPL/PWR/HSE/PUB/L3/IOC/CECB/100

30th August 2024

To,

Regional Officer
Chhattisgarh Environment Conservation Board
Korba, Chhattisgarh.

Sub: - Environment Statement for Lanco Amarkantak Power Ltd. At Village- Pathadi, Dist. Korba, Chhattisgarh 2 x 300 MW Coal Based Thermal Power Plant for the FY 2023-24.

Dear Sir,

Please find enclosed herewith Environment Statement for 2x300 MW coal-based power plant for the FY 2023-24 in the prescribed format Form-V.

This is for your kind information please.

Thanking you,

Yours Sincerely,

For Lanco Amarkantak Power Limited.

LANCO AMARKANTAK POWER LTD. KORBA

Authorized Signatory

Encl: - Form- V

Copy to: - 1. The Member Secretary, CECB, Raipur
2. The Member Secretary, CPCB, Parivesh Bhavan East Arjun Nagar, Delhi-32.

LANCO AMARKANTAK POWER LIMITED
Corporate office: Plot # 334, Udyog vihar Phase – IV, Gurugram 122015, Haryana, India
T+91-124-692 6200
Registered office: Flat No. 5A 5th Floor D.No. 6-3-626/1/601, Parameshwara Apartment, Anand Nagar, Khairatabad, Hyderabad, 500004, Telangana, India E info@lancogroup.com
Project office: Village – Pathadi, P.O.-Tilkeja, Dist-Korba , Chhattisgarh-495 674
T+91-7759-279 938 F+91-7759-279 970
www.lancogroup.com
Corporate Identity NumberCIN- U40109TG2001PLC036265

ENVIRONMENTAL STATEMENT

OF

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

FINANCIAL YEAR ENDING THE 31ST MARCH, 2024

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 of March 2024

PART- A

i.	Name and address of the occupier	: Mr. Kothapalli Venkata Sudhir Babu Director Lanco Amarkantak Power Ltd. Patadi, Korba C.G.
ii.	Industry Category Primary - (STC Code) Secondary – (SIC Code)	 : Red :
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	: 30th September 2023

LANCO AMARKANTAK POWER LTD. KORBA

PART – B

WATER AND RAW MATERIAL CONSUMPTION

a. Water Consumption for the period (Apr'23 – March'24)

1. Process : NIL m^3/day
2. Cooling & Boiler Feed : 20222.20 m^3/day
3. Domestic : 216.12 m3/day

Name of Product	Process Water Consumption per Unit of Product Output	
	During the Last year (2022-23)	During the current year (2023-24)
Power Generation	2.47 M^3/MWhr	2.21 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 Last financial year (2022-23)	During the current financial year (2023-24)
POWER	Fuel Oil	KL	414.42	391.74
	Coal	MT	2444904	2736678

PART – C

POLLUTION DISCHARGED TO ENVIRONMENT /UNIT OF OUTPUT

a. Water

Effluent quantity : 3125.90 KL/day
Domestic effluent quantity : 112.98 KL/day

Average of Treated Effluent Monitoring Data for financial year 2023-24

Sr.No.	Parameters	Average of all Waste water Monitoring Results for Financial Year	Maximum Permissible Limit	Variance (exceeding allowed Quantity)
1	BOD	17.7	30 mg/L	No deviation
2	COD	60.4	250 mg/L	No deviation
3	TSS	27.5	100 mg/L	No deviation
4	Oil & Grease	<1.0	10 mg/L	No deviation

LANCO AMARKANTAK POWER LTD. KORBA

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 2023-24

Sr.No.	Parameters	Average of all Wastewater Monitoring Results for Financial Year	Maximum Permissible Limit	Variance (exceeding allowed Quantity)
1	BOD	20.74	30 mg/L	No deviation
2	COD	54.68	250 mg/L	No deviation
3	TSS	38.95	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 (2023-24)					
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/Nm3	44.50	50 mg/Nm3	No deviation
		SO2 mg/Nm3	795.97	600 mg/Nm3	195.97 mg/Nm3
		NOx mg/Nm3	289.07	450mg/Nm3	No deviation

Stack Emissions &Pollution Load (2023-24)					
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/Nm3	41.56	50 mg/Nm3	No deviation
		SO2 mg/Nm3	802.12	600 mg/Nm3	202.12 mg/Nm3
		NOx mg/Nm3	305.30	450mg/Nm3	No deviation

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DG Stack #1 Emissions & Pollution Load (2023-24)					
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	37.50	75 mg/Nm3	No deviation
		Carbon monoxide	36.50	150 mg/Nm3	No deviation
		Oxide of Nitrogen	218	710 mg/Nm3	No deviation

DG Stack #2 Emissions & Pollution Load (2023-24)					
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	37	75 mg/Nm3	No deviation
		Carbon monoxide	41	150 mg/Nm3	No deviation
		Oxide of Nitrogen	221	710 mg/Nm3	No deviation

c. **Ambient Air Quality Monitoring (2023-24)**

Sr.No.	Parameters	Name of Location	Average of all Ambient Air Quality Results for Financial Year	Maximum Permissible Limit (Annual avg.)	Variance (exceeding allowed Quantity)
1	PM-10	Ash Pond	53.19	60 µg/Nm3	No deviation
		Switch Yard	55.22		
		DM Plant	53.08		
		Admin. Bldg.	55.28		
		Pathadi	56.99		
		Saragbundia	54.77		
		Sandel	52.08		
		Khoddel	46.87		
2	PM-2.5	Ash Pond	26.63	40 µg/Nm3	No deviation
		Switch Yard	25.46		
		DM Plant	26.12		
		Admin. Bldg.	26.08		
		Pathadi	30.52		
		Saragbundia	28		
		Sandel	25		
		Khoddel	22.40		
3	SO_2	Ash Pond	19.80	50 µg/Nm3	No deviation
		Switch Yard	21.22		
		DM Plant	22.27		
		Admin. Bldg.	21.82		
		Pathadi	13.19		
		Saragbundia	16		
		Sandel	16.57		
		Khoddel	15.54		
4	NOx	Ash Pond	23.77	40 µg/Nm3	No deviation

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		Switch Yard	24.90		
		DM Plant	25.86		
		Admin. Bldg.	23.61		
		Pathadi	18.75		
		Saragbundia	19		
		Sandel	19.53		
		Khoddel	18.55		

d. **Ambient Noise Level(2023-24)**

Sr.No.	Name of Location	Average of all Ambient Air Noise Results for Financial Year		Variance (exceeding allowed Quantity)
		Maximum Permissible Limit		
		Noise Level-Day 75 dB(A)	Noise Level-Night 70 dB(A)	
1	Colony	48.20	44.98	No deviation
2	Gate No. 1	51.27	47.53	
3	Gate No. 2	51.82	49.88	
4	Admin. Building	53.18	49.90	
5	LTTL Admin. Building	60.56	53.32	
6	Switch yard	63.49	59.69	
7	C.H.P.	62.06	61.87	
8	Ash Dyke	56.42	53.15	
9	DM Plant	62.09	58.84	
10	Chlorination	63.10	59.04	
11	Store Building	67.54	63.15	
12	Service Building	65.80	62.85	

PART-D

As specified under Hazardous Waste (Management & Handling & Trans-boundary movement rules) Amendment Rules 2008, Amended2017

Sr. No.	Hazardous Wastes	Total Quantity (Litters)	
		During the current financial year (2022–23)	During the current financial year (2023–24)
1.	Used Oil	8146 L	5605 L
2.	Waste Oil	-	-

PART – E
SOLID WASTES

Sr. No.	Details	2022–23	23-24
1.	Bottom Ash	2,07,289.23 MT	2,27,451.59 MT
2.	Fly Ash	8,29,156.91 MT	9,09,806.35 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

LANCO AMARKANTAK POWER LTD. KORBA

Solid Waste generation	: Fly ash
Total FLY Ash Generated	: 11,37,257.94 MT
Cumulative Fly ash utilization (FY)	: 9,12,278.55 MT

Practice Adopt: Supplied to cement industries, Road Projects, for Land Development and to Fly Ash Brick Plants.

Hazardous Liquid Waste:

Waste Generation	:	Used Oil
Total Used Oil Generation	:	5.605 KL
Cumulative Used Oil Disposal (FY)	:	5.605 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 & Road sprinkling.
3. Specific water consumption has been maintained around 2.21 M^3/MWHr against stipulated limit of 3.5 M^3/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. Installation of 4 NO's of Rainwater harvesting structures as per CTO condition and report submit to State pollution control board.
3. Greenbelt development carried out in plant premises by planting more than 5000 saplings in monsoon 2023-24.

4. **Remedial measure taken for ash utilization.**

A. Strict adherence to MoEF & CC guidelines for Ash utilization is being ensured. Contracts for ash disposal to different avenues viz. Cement manufacturing plants, Fly Ash Brick Manufacturing Units, NHAI Road Projects, abandoned mines, low lying area development is awarded through a transparent bidding process.

LANCO AMARKANTAK POWER LTD. KORBA

B. Supplying Dry Fly Ash to 4 Cement Companies in Chhattisgarh on sharing basis of transportation cost.

C. Started supplying Fly Ash to Manikpur OCM for mine backfilling from May 2023. Ash qty. of 3.62 Lakhs Cu.M is balance to be supplied out of 5.81 Lakhs Cu.M allotted qty. by SECL to LAPL for mine backfilling work in Manikpur OCM.

D. Supplying fly ash to nearby Brick Manufacturing Units on free of cost basis at their doorstep.

E. Supplying fly ash to NHAI road project from our Ash Dyke.

F. Supplying fly ash to Low lying area and exploring nearby villages having low lying areas for land development and required leveling by ash filling.

PART - I

Any other particulars for improving the quality of the environment.

- Environment awareness programs are conducted for all LAPL, Contractors employees and their families, nearby local community through different promotional activities, cotton bag distribution, Ground and Drinking Water analysis, Cleanness drive, painting, drawing, and poster quiz competition etc. on 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 World Environment Day/Week 2023-24 for 5000 saplings.

LANCO AMARKANTAK POWER LTD. KORBA

Name : Mr. Yenugula Dharaninder
Designation : Executive Director
Date : 28.08.2024
Address : Lanco Amarkantak Power Limited. Vill- Pathadi, Korba, Chhattisgarh