



Always inspiring

Ref: LAPL/PWR/HSE/PUB/L3/IOC/CECB/1878

Date -28.09.2023

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

Sub: - Environment Statement for Lanco Amarkantak Power Ltd. At Village- Pathadi, Dist. Korba,
Chhattisgarh 2x300 MW coal based thermal power plant for the FY 2022-23.

Dear Sir,

Please find enclosed herewith Environment Statement for 2x300 MW coal based power plant for the FY 2022-23 in the prescribed format Form-V.

This is for your information please.

Thanking you,

Yours Sincerely,

For Lanco Amarkantak Power Limited

Digitally signed by
Yenugula Dharaninder
Date: 2023.09.29
18:54:33 +05'30'

Authorized Signatory

Lanco Amarkantak Power Ltd. At Village- Pathadi, Dist. Korba, Chhattisgarh
Encl: - Form- V

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

LANCO AMARKANTAK POWER LIMITED

Corporate office: Lanco House Plot # 334, 4th Floor, Udyogvihar Phase – IV, Gurugram 122015, Haryana, India
T+91-124-692 6200

Registered office: LancoHouse, Plot No-4, Software Units Layout, HITEC City, Madhapur, Hyderabad-500 081, A.P, India
T+91-440-40-4009 0400 F+91-40-23116127 E info@lancogroup.com

Project office: Village – Pathadi, P.O.-Tilkeja, Dist-Korba, Chhattisgarh-495 674
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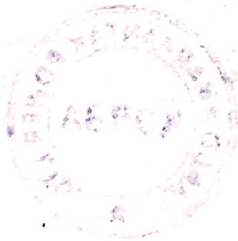
Corporate Identity NumberCIN- U40109TG2001PLC036265

ENVIRONMENTAL STATEMENT

OF

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

FINANCIAL YEAR ENDING THE 31ST MARCH, 2023



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 2023

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) : 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 : 22th September 2022

Prishu



PART - B

WATER AND RAW MATERIAL CONSUMPTION

a. Water Consumption for the period (Apr'22 - March'23)

1. Process : NIL m³/day
2. Cooling & Boiler Feed : 11823.12 m³/day
3. Domestic : 179.78 m³/day

Name of Product	Process Water Consumption per Unit of Product Output	
	During the Last year (2021-22)	During the current year (2022-23)
Power Generation	2.30 M ³ /MWhr	2.47 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 (2021-22)	During the current financial year (2022-23)
POWER	Fuel Oil	KL	557.81	414.42
	Coal	MT	2764320	2444904

PART - C

POLLUTION DISCHARGED TO ENVIRONMENT /UNIT OF OUTPUT

a. Water

- Effluent quantity : 2146.77 KL/day
Domestic effluent quantity : 99.14 KL/day

Average of Treated Effluent Monitoring Data for financial year 2022-23

Sr.No.	Parameters	Average of all Waste water Monitoring Results for Financial Year	Maximum Permissible Limit	Variance (exceeding allowed Quantity)
1	BOD	17.92	30 mg/L	No deviation
2	COD	54.88	250 mg/L	No deviation
3	TSS	31.38	100 mg/L	No deviation
4	Oil & Grease	<1.0	10 mg/L	No deviation

Signature



- 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 2022-23

Sr.No.	Parameters	Average of all Waste water Monitoring Results for Financial Year	Maximum Permissible Limit	Variance (exceeding allowed Quantity)
1	BOD	18.63	30 mg/L	No deviation
2	COD	54.13	250 mg/L	No deviation
3	TSS	35.04	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 (2022-23)					
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	43.01	50 mg/Nm ³	No deviation
		SO ₂ mg/Nm ³	803.88	600 mg/Nm ³	203.88 mg/Nm ³
		NOx mg/Nm ³	279.40	450mg/Nm ³	No deviation

Stack Emissions & Pollution Load (2022-23)					
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	41.87	50 mg/Nm ³	No deviation
		SO ₂ mg/Nm ³	808.46	600 mg/Nm ³	208.46 mg/Nm ³
		NOx mg/Nm ³	273.25	450mg/Nm ³	No deviation



[Signature]



DG Stack #1 Emissions & Pollution Load (2022-23)					
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/Nm ³	No deviation
		Carbon monoxide	36.50	150 mg/Nm ³	No deviation
		Oxide of Nitrogen	218	710 mg/Nm ³	No deviation

DG Stack #2 Emissions & Pollution Load (2022-23)					
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/Nm ³	No deviation
		Carbon monoxide	41	150 mg/Nm ³	No deviation
		Oxide of Nitrogen	221	710 mg/Nm ³	No deviation

c. Ambient Air Quality Monitoring(2022-23)

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	54.70	60 µg/Nm ³	No deviation
		Switch Yard	56.12		
		DM Plant	54.25		
		Admin. Bldg.	56.12		
		Pathadi	52.89		
		Saragbundia	53.98		
		Sandel	52.38		
		Khoddel	53.10		
2	PM-2.5	Ash Pond	28.76	40 µg/Nm ³	No deviation
		Switch Yard	29.58		
		DM Plant	28.25		
		Admin. Bldg.	29.58		
		Pathadi	26.71		
		Saragbundia	27		
		Sandel	27		
		Khoddel	27.00		
3	SO ₂	Ash Pond	18.90	50 µg/Nm ³	No deviation
		Switch Yard	18.45		
		DM Plant	17.12		
		Admin. Bldg.	18.45		
		Pathadi	18.24		
		Saragbundia	19		



		Sandel	17.05		
		Khoddel	19.96		
4	NOx	Ash Pond	22.19	40 µg/Nm3	No deviation
		Switch Yard	21.68		
		DM Plant	20.42		
		Admin. Bldg.	21.68		
		Pathadi	21.55		
		Saragbundia	22		
		Sandel	20.33		
		Khoddel	21.23		

d. Ambient Noise Level(2022-23)

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	48.50	45.22	No deviation
2	Gate No. 1	51.82	48.24	
3	Gate No. 2	51.68	49.05	
4	Admin. Building	49.44	47.84	
5	LTTL Admin. Building	61.65	53.57	
6	Switch yard	60.39	56.72	
7	C.H.P.	61.15	59.77	
8	Ash Dyke	55.16	53.16	
9	DM Plant	62.33	60.07	
10	Chlorination	62.89	59.92	
11	Store Building	67.32	62.39	
12	Service Building	64.57	62.01	

PART-D

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

Sr. No.	Hazardous Wastes	Total Quantity (Litters)	
		During the current financial year (2021-22)	During the current financial year (2022-23)
1.	Used Oil	4681	8146
2.	Waste Oil	-	-



PART - E
SOLID WASTES

Sr. No.	Details	2021-22	2022-23
1.	Bottom Ash	221396.44 MT	2,07,289.23 MT
2.	Fly Ash	885585.77 MT	8,29,156.91 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	: 10, 36,446.14 MT
Cumulative Fly ash utilization (FY)	: 14, 62,739.01 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	: 8.146 KL
Cumulative Used Oil Disposal (FY)	: 8.146 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 2.47 M³/MWHr against stipulated limit of 3.5 M³/MWHr.

PART - H

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

Rishi



1. Online Environment data from CEMS, AAQMS and EQMS are being uploaded to the CPCB/CECB server.
2. Installation of 4 NO's of Rain water 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 2022-23.
4. Remedial measure taken for ash utilization
 - Supplying Dry Fly Ash to 3 Cement Companies in Chhattisgarh on sharing basis of transportation cost.
 - Started supplying Fly Ash to Manikpur OCM for mine backfilling from June 2023. Ash qty. of 5.81 Lakhs Cu.M allotted by SECL to LAPL for mine backfilling work in Manikpur OCM.
 - Supplying fly ash to nearby Brick Manufacturing Units on free of cost to their door step.
 - Approached road project agencies (NHAI, State PWD) to use fly ash from our Ash Dyke for their road project work.
 - 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

- Installation of 4 NO's of Rain water harvesting structures as per CTO condition and report submit to State pollution control board.
- 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, Cleaness drive, 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 2022-23 for 5000 saplings.

Name : Mr. Yenugula Dharaninder
Designation : Executive Director
Date : 28.09.2023
Address : Lanco Amarkantak Power Limited

Digitally signed
by Yenugula
Dharaninder
Date: 2023.09.29
18:55:50 +05'30'

Y. Dharaninder

