

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

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

Sub: - Environment Statement for 2x300 MW coal based thermal power plant for the FY 2021-22.

Dear Sir,

Please find enclosed herewith Environment Statement for 2x300 MW coal based power plant for the FY 2021-22 in the prescribed format Form-V.

This is for your information please.

Thanking you,

Yours Sincerely,

For Lanco Amarkantak 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

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

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ENVIRONMENTAL STATEMENT

OF

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

FINANCIAL YEAR ENDING THE 31ST MARCH, 2022



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 2022

PART- A

- i. Name and address of the occupier : Mr. Kothapalli Venkata Sudheer 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 : September 2021



PART - B

WATER AND RAW MATERIAL CONSUMPTION

a. Water Consumption for the period (Apr'21 - March'22)

1. Process : NIL m³/day
2. Cooling & Boiler Feed : 25097.12 m³/day
3. Domestic : 165.32m³/day

Name of Product	Process Water Consumption per Unit of Product Output	
	During the current year (2020-21)	During the current year (2021-22)
Power Generation	2.176 M ³ /MWhr	2.30 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 current financial year (2020-21)	During the current financial year (2021-22)
POWER	Fuel Oil	KL	395.31	557.81
	Coal	MT	2999344	2764320

PART - C

POLLUTION DISCHARGED TO ENVIRONMENT /UNIT OF OUTPUT

a. Water

- Effluent quantity : 2390.10 KL/day
Domestic effluent quantity : 99.40 KL/day

Average of Treated Effluent Monitoring Data for financial year 2021-22

Sr. No.	Parameters	Average of all Waste water Monitoring Results for Financial Year	Maximum Permissible Limit	Variance (exceeding allowed Quantity)
1	BOD	14.38	30 mg/L	No deviation
2	COD	45.87	250 mg/L	No deviation
3	TSS	34.44	100 mg/L	No deviation
4	Oil & Grease	<1.0	10 mg/L	No deviation



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- 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 2021-22

Sr. No.	Parameters	Average of all Waste water Monitoring Results for Financial Year	Maximum Permissible Limit	Variance (exceeding allowed Quantity)
1	BOD	12.00	30 mg/L	No deviation
2	COD	37.00	250 mg/L	No deviation
3	TSS	26.00	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 (2021-22)					
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	39.71	50 mg/Nm ³	No deviation
		SO ₂ mg/Nm ³	733.69	600 mg/Nm ³	184.35 mg/Nm ³
		NO _x mg/Nm ³	261.89	450mg/Nm ³	No deviation

Stack Emissions & Pollution Load (2021-22)					
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	43.12	50 mg/Nm ³	No deviation
		SO ₂ mg/Nm ³	810.10	600 mg/Nm ³	192.33 mg/Nm ³
		NO _x mg/Nm ³	288.25	450mg/Nm ³	No deviation



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DG Stack #1 Emissions & Pollution Load (2021-22)					
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	36	75 mg/Nm ³	No deviation
		Carbon monoxide	41	150 mg/Nm ³	No deviation
		Oxide of Nitrogen	215	710 mg/Nm ³	No deviation

DG Stack #2 Emissions & Pollution Load (2021-22)					
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	38	75 mg/Nm ³	No deviation
		Carbon monoxide	44	150 mg/Nm ³	No deviation
		Oxide of Nitrogen	224	710 mg/Nm ³	No deviation

c. Ambient Air Quality Monitoring (2021-22)

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	52.0	60 µg/Nm ³	No deviation
2	PM-2.5	27.3	40 µg/Nm ³	No deviation
3	SO ₂	17.6	50 µg/Nm ³	No deviation
4	NO _x	17.6	40 µg/Nm ³	No deviation

d. Ambient Noise Level (2021-22)

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	58.79	75 dB(A)	No deviation



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2	Noise Level- Night	53.79	70 dB(A)	No deviation
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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 current financial year (2020-21)	During the current financial year (2021-22)
1.	Used Oil	5212	4681
2.	Waste Oil	-	-

**PART - E
SOLID WASTES**

Sr. No.	Details	2020-21	2021-22
1.	Bottom Ash	231306.612 MT	221396.44 MT
2.	Fly Ash	925226.448 MT	885585.77 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 : 1106982.2 MT
 Cumulative Fly ash utilization (FY) : 829710.93 MT
 Practice Adopt : Supplied to cement industries, Road projects, land development and brick manufacturing units for utilization.

Hazardous Liquid Waste:
 Waste Generation : Used Oil
 Total Used Oil Generation : 4.681KL
 Cumulative Used Oil Disposal (FY) : 4.681KL
 Practice Adopted : Reprocessed thorough authorized recycler.



Handwritten signature/initials in blue ink.

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 2.30 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. Installation of PTZ camera as per CTO condition and data being uploaded at CPCB portal.
3. Greenbelt development carried out in plant premises by planting more than 5000 saplings.
4. Remedial measure taken for ash utilization
 - MoU signed between LAPL and SECL for the supply of 5.81 lakh Cu.M fly ash to mine void of Manikpur OCM. Feasibility study report for transportation of ash to Manikpur OCM submitted to SECL. Ash transportation is expected to be started from November 2022.
 - Made MOU/agreement with cement industries in CG with sharing cost of transportation of dry ash.
 - Made MOU/Agreement with nearby fly ash brick manufacturing industries for free of cost supply of dry ash to nearby fly ash brick manufacturing units.
 - Approached road project contractors to use fly ash for road project from our plants, as per norms of NHAI/PWD to use fly ash from nearby plants. NHAI allotted 5.55 lakh Cu.M of ash for supply in ongoing Korba Champa NHAI road project.
 - 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 PTZ camera at outlet of plant premises for monitoring of Zero liquid discharge.



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- 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 : 22.09.2022
Address : Lanco Amarkantak Power Limited

