MEILAnparaEnergyLimited
(FormerlyLancoAnparaPowerLimited)
CorporateOffice: Plot#S-2,TechnocraftsIndustrialEstate,(TIE),RoadNo.1,Balanagar,Hyderabad-500037,Telangana,India
Tel:+914044336700**Fax:**+914044336800**Website:**www.meilanparapower.com**CIN:**U31200UP2006PLC031982

Ref: **MAEL/Env St -2023-24/12** Dated: **12.09.2024**

To,

The Member Secretary,
Uttar Pradesh Pollution Control Board,
TC12th, Vibhuti Khand
Gomtinagar
LUCKNOW (UP)-226010

Ref: (I) Letter No 66489/UPPCB /Vayu Pradushan/ Dated: 14.01.2020.

(II) Letter No 66497/UPPCB /Jal Pradushan/ Dated: 14.01.2020.

Subject: Environment Statement FY 2023-24

Dear Sir,

Please find enclosed herewith Environment Statement for the Financial Year 2023 – 24 for MEIL Anpara Energy Ltd, (Formerly Lanco Anpara Power Limited) Vill. Anpara ,Distt. Sonebhadra (U.P.) under the Rule 14 of Environment Protection Rules, 1986.

Hope you will find the attached Environment Statement and all supporting documents are satisfactory to your requirements.

Yours Sincerely,

(Himanshu Verma)
AGM- HSE

MEIL ANPARA ENERGY LIMITED ANPARA SONEBHADRA

Encl: Environment Statement FY 2023-24

CC : (i) Regional Officer, UP Pollution Control Board, Robertsganj, Sonebhadra (UP.)
(ii) The Director Ministry of Environment & Forest Lucknow (UP)
(iii) Zonal Officer CPCB Lucknow.

ENVIRONMENT STATEMENT

FOR THE FINANCIAL YEAR

2023 -24

-Submitted By-

MEIL ANPARA ENERGY LIMITED
(Formerly Known as Lanco Anpara Power Limited)
ANPARA
Distt.- SONEBHADRA (U.P.)-231225

MEIL ANPARA ENERGY LIMITED ★ ANPARA SONEBHADRA ★

ENVIRONMENT STATEMENT
FORM-V
(See Rule 14)

Environmental Statement for the Financial Year ending the 31st March 2024

PART- A

i	Name and address	: Sh. Anand Kumar Singh MEIL Anpara Energy Ltd. (Formerly Known as Lanco Anpara Power Limited) Anpara, Sonbhadra (U.P.)-231225
ii	Industry Category	: Red Category
iii	Production Capacity (Power)	: 2X600 MW Electricity
iv	Year of Establishment	: Commercial Operation of Unit#1 in Dec 2011 and Unit #2 in Jan 2012
v	Date of the last Environmental Statement submitted	: 18.09.2023

MEIL ANPARA ENERGY LIMITED ANPARA SONEBHADRA

PART – B

I. WATER AND RAW MATERIAL CONSUMPTION

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

1. Cooling & Boiler Feed : 53731 m^3/day
2. Domestic : 400 m^3/day

Name of Product	Water Consumption per Unit of Product Output	
	During Last Financial Year (2022-23)	During the current Financial Year (2023-24)
Electricity Generation 8161.62 **MU**	2.60 lit/KWH	2.40 lit/KWH

b. Raw Material Consumption

Name of Product	Name of Raw Materials	Consumption of Raw Material Per Unit of Output	
		During Last Financial Year (2022-23)	During the current Financial Year (2023-24)
Electricity Generated (FY 2023-24) 8161.62 **MU**	Fuel Oil(ml/ KWH)	0.183	0.139
	Coal(kg/ KWH)	0.638	0.625

Environment Licenses Details.

Licenses Details	Granted by	License No and Date	Validity
Environment Clearance	MoEF & CC, New Delhi	J-13011/45/2007-IA-II(T) 26.11.2007	One Time
EC Amendment - 1		J-13011/45/2007-IA II(T) 31.07.2008	
Air Consent to Operate	UPPCB Lucknow	66489/UPPCB/ Sonebhadra (UPPCBRO) /CTO/Air/2019 Dt :14.01.2020	31.12.2024
Water Consent to Operate		66497/UPPCB/ Sonebhadra (UPPCBRO)/ CTO/Water/2019 Dt:14.01.2020	
Hazardous Waste Authorization		15472/UPPCB/Sonebhadra /(UPPCBRO)/HWM/SONEBHADRA/2021 Dt:21.12.2021	21.12.2026
Bio-Medical Waste Authorization		18235092/B.M.W/Auth/ 02.12.2022	One Time

NEIL ANPARA ENERGY LIMITED * ANPARA SONEBHADRA *

PART – C

POLLUTION DISCHARGED TO ENVIRONMENT /UNIT OF OUTPUT

a. Water

Effluent quantity : **1697** KL/day (As per CTO)
Domestic effluent quantity : **240** KL/day (As per CTO)

- System has to ensure zero discharge and utilization in different areas including plantation, ash slurry.

I. Quality of Treated Effluent from Effluent Treatment Plant(ETP)*.

Parameters	Permissible Limits	Average Results
pH	6.5-8.5	7.45
BOD_3 at 27^0C	30 mg/l	14.37
COD	250 mg/l	58.57
TSS	100 mg/l	30.43
Oil & Grease	10 mg/l	BDL

*Third party MoEF approved laboratory results.

II. Quality of Treated Sewage from Sewage Treatment Plant (STP)*.

Parameters	Permissible Limits	Average Results
pH	6.5-8.5	7.31
BOD_3 at 27^0C	30 mg/l	15.05
COD	250 mg/l	55.68
TSS	100 mg/l	29.82
Oil & Grease	10 mg/l	BDL

*Third party MoEF approved laboratory results.

- 100% Effluent (Process& Domestic) is Recycled back for ash slurry preparation, green belt development purpose and zero discharge are being maintained.

b. Emission Monitoring*

Stack Emissions & Pollution Load (Apr'23– Mar' 24)				
Sr. No.	Stack Attached to	Pollutant	Concentration of pollutants discharge (Mass/volume)	Percentage of Variation from prescribed standards with reasons.
1	Unit # I	SPM	38.74	**SPM-** No Variation from prescribed values. **NOx-** No Variation from prescribed values. **SOx-** For FGD Installation EPC Contract Awarded. **Hg:** No Variation from prescribed values.
2		SO_2	840.59	
3		NOx	342.05	
1	Unit # II	SPM	36.23	
2		SO_2	861.92	
3		NOx	352.15	

*Third party MoEF approved laboratory results

MEIL ANPARA ENERGY LIMITED Village SUNEBHADRA

b. Ambient Air Quality Monitoring*

PM10(µg/m^3) Values				
Name of AAQ Station	Minimum	Maximum	Average	* Permissible Limit(ug/m3)
AAQ-1 , Track Hopper	51.20	62.43	55.80	100
AAQ-2 , Kakri	43.10	56.24	52.21	100
AAQ-3 , HSCL Colony	41.88	60.47	49.81	100
AAQ-4 , Dibulganj	40.96	55.10	47.64	100

*Third party MoEF approved laboratory results.

PM2.5(µg/m^3) Values				
Name of AAQ Station	Minimum	Maximum	Average	* Permissible Limit(ug/m3)
AAQ-1 , Track Hopper	18.10	28.72	25.04	60
AAQ-2 , Kakri	17.74	30.14	24.18	60
AAQ-3 , HSCL Colony	18.46	32.80	25.06	60
AAQ-4 , Dibulganj	18.75	29.49	24.01	60

*Third party MoEF approved laboratory results.

SO2 (µg/m^3) Values				
Name of AAQ Station	Minimum	Maximum	Average	*Permissible Limit(ug/m3)
AAQ-1 , Track Hopper	14.80	26.91	20.16	80
AAQ-2 , Kakri	14.04	26.22	18.42	80
AAQ-3 , HSCL Colony	13.19	22.49	18.28	80
AAQ-4 , Dibulganj	12.94	24.87	18.26	80

*Third party MoEF approved laboratory results.

NOx(µg/m^3) Values*				
Name of AAQ Station	Minimum	Maximum	Average	*Permissible Limit(ug/m3)
AAQ-1 , Track Hopper	18.32	28.20	21.96	80
AAQ-2 , Kakri	14.78	27.20	20.74	80
AAQ-3 , HSCL Colony	18.25	25.89	22.09	80
AAQ-4 , Dibulganj	16.56	26.25	21.36	80

*Third party MoEF approved laboratory results.

CO(mg/m3)*				
	Minimum	Maximum	Average	*Permissible Limit(mg/m3)
AAQ-1 , Track Hopper	0.470	0.780	0.602	4
AAQ-2 , Kakri	0.390	0.770	0.560	4
AAQ-3 , HSCL Colony	0.470	0.800	0.612	4
AAQ-4 , Dibulganj	0.460	0.780	0.554	4

*Third party MoEF approved laboratory results.

PART – D

HAZARDOUS WASTES

As specified under The Hazardous and Other Wastes
(Management and Trans-boundary Movement) Rules, 2016.)

The LANPL has taken Hazardous Waste Authorization vide Letter No.15472/UPPCBRO/HWM/Sonbhadra / 2021 Dated 21.12.2021 from UPPCB for Storage and disposal of hazardous waste through registered recyclers.

S.No.	Hazardous Waste	Total Quantity	
		During Previous Financial Year (2022-23)	During the current Financial Year (2023-24)
1	Used/Spent Oil	5.74 KL	-
2	Scrap Empty Barrel (Plastic)	50 NOS	180 Kg
3	Filters contaminated with oil	-	600 Kg
4	Waste or residues containing oil	-	3.00 Ton

Hazardous Waste Disposal: Used oil is stored at designated hazardous waste storage area and disposed off through registered recyclers.

PART – E

SOLID WASTES

Fly Ash (in MT)		Bottom Ash (in MT)	
FY 22-23	**FY 23-24**	**FY 22-23**	**FY 23-24**
1363359	1444717	340840	361179

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.

Ash Disposal: The system has been designed to utilize fly ash as per recent Fly Ash Utilization Notifications in different areas including cement manufacturers, ash bricks & block manufacturers and other suitable users.

Financial Year	Ash Generation (MT)	Ash Utilisation (MT)	% Ash Utilisation
2023-24	1805896.63	425191.9	23.54

MEIL ANPARA ENERGY LIMITED ★ ANPARA SONEBHADRA ★

PART – G

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

Environment monitoring (ambient air quality, stack emissions and effluent quality etc) is done through MoEF&CC recognized laboratory to evaluate the efficiency of the pollution control systems and control measures on the overall emissions from stack and ambient air. The expenditure incurred towards air pollution control measure & monitoring, green belt maintenance payment details for the FY 2023 - 2024 are as follows:

S. No.	Description	Amount Incurred
1.	Environmental Monitoring (by MoEF & CC recognized laboratory)	**₹ 12.68 Lakhs**
2.	Greenbelt Development / Maintenance	**₹ 52.81Lakhs**
Total		**₹ 65.49 Lakhs**

Most of the pollutants generated are controlled at source by Air pollution control facilities like Fabric filters, Electro Static Precipitator and Water Sprinklers. Solid waste generated like fly ash is disposed mostly to Cement & Fly ash brick manufacturers.

Ash water recovery system is in place to recycle the ash pond water to ash handling plant for making ash slurry, thus raw water consumption is reduced.

1. Air and water pollution control devices have been installed.

S.No.	Particulars
I.	**Air Pollution Control**
1.	Electrostatic Precipitators and Fabric Filters
2.	Bi-Flue Stack of height 275 meters.
3.	Continuous Emission Monitoring System (SO_X, NOx, SPM Analyzers) with online calibration facility of Gaseous analyzers.
4.	Dust Extraction system at Crusher house & Bunkers.
5.	Dust Suppression system at Track Hopper & Coal yard.
6.	PVC Strip covered at Track Hopper unloading area.
II.	**Water Pollution Control**
1.	Sewage Treatment Plant in plant & colony.
2.	Effluent Treatment Plant
3.	Storm Water Drains & Process Drains are separate.
4.	Online Effluent Monitoring System(pH, TSS and Temp sensors)
III.	**Environment Monitoring & Management**
1.	Continuous Ambient Air Quality Monitoring Station at three Locations
	(a) Central Stores
	(b) Township
	(c) Switch Yard
2	Third party Environment Monitoring through MoEF & CC approved laboratory.
3	Ash water recovery system (AWRS) is fully operational and 100 % water has been recovered from secondary ash pond.
4	Plantation of 2325 saplings inside the plant.

MEIL ANPARA ENERGY LIMITED ANPARA SONEBHADRA

PART – H

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

(1) Additional green area development within plant & colony premises and ornamental plantation along the roads.

(2) Tree plantation was done inside as well as outside of the plant & township. Also small patches of gardens are developed inside of the plant premises wherever the open space is available to improve the plant beautification.

(3) All internal roads are of BT and RCC to reduce the dust emission.

(4) Plantation of 2325 saplings inside the plant.

(5) Housekeeping is taken up on top priority and engaged sufficient manpower for maintenance of the plant premises

(6) Various Environmental trainings to create awareness among employees and workmen.

(7) Corporate Social Responsibility initiatives.

(8) Well Qualified and Experienced Environment Monitoring Cell.

(9) Disposal of Bio-Medical Waste through authorized agency.

PART – I

Any other particulars for improving the quality of the environment

(1) Three nos. of Continuous Ambient Air Quality Monitoring Station installed to access the quality of ambient air quality round the clock.

(2) Celebration of World Environment Day/Week for environmental awareness among employees and contract workman within plant premises.

(3) Certification of Environment Management System ie ISO 14001:2015 including Quality Management System and ISO 45001.

(4) Online connectivity of Stack Emission and Effluent Monitoring data with CPCB.

(5) Won Greentech HSE Excellence Award-2023.

PRIL ANPARA ENERGY LIMITED SONEBHADRA