



## Power

Ref.: APL/UPCL/NMPT/ENV/EC/291/05/24

Date: 25/05/2024

To,

**Additional Principal Chief Conservator of Forest  
Ministry of Environment, Forest, and Climate Change  
Integrated Regional Office (Southern Zone),**

Kendriya Sadan, Koramangala,  
Bangalore – 560 034

**Sub: Submission of Six-Monthly EC Compliance report for Captive Jetty with associated facilities for import and handling of Coal for Coal-based subcritical Udupi Thermal Power Plant, Udupi, Karnataka.**

**Ref: Environmental Clearance No: J-16011/13/2002-IA.III Dated: 16.01.2003.**

Dear Sir,

With reference to the above subject, please find enclosed herewith Half yearly Environment Clearance (EC) Compliance status report for the period of **October'2023 to March'2024** for **Captive Jetty with associated facilities** for import and handling of coal-based subcritical Thermal power plant at Udupi in soft (**e-mail**).

This is for your kind information and record please.

Thanking you,

Yours sincerely,

for **Adani Power Limited, Udupi**

**(Santosh Kumar Singh)  
Head AESG**

**Encl.:** As above

**CC:**

**The Member Secretary,  
Central Pollution Control Board,  
Parivesh Bhavan, East Arjun Nagar,  
Kendriya Paryavaran Bhawan, New Delhi – 110 032**

**Zonal Office,  
Central Pollution Control Board,  
1<sup>st</sup> and 2<sup>nd</sup> Floor, Nisarga Bhavan, A-Block, Thimmaiah  
Main Road, 7<sup>th</sup> Cross, Shivanagar, Bengaluru – 560 010**

**The Member Secretary  
Karnataka State Pollution Control Board  
"Parisara Bhavan", #49, 4th & 5th Floor,  
Church Street, Bangalore – 560 001**

**Regional Office,  
Karnataka State Pollution Control Board  
Parisara Bhavan, Bikampady, Mangalore.**

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**SIX MONTHLY COMPLIANCE REPORT  
OF ENVIRONMENT CLEARANCE (EC)  
FOR  
CAPTIVE JETTY WITH ASSOCIATED  
FACILITIES FOR HANDLING OF COAL  
OF  
1200 MW Udupi Thermal Power Plant**

**At**

**Berth No.15, APL Jetty,  
At NMPA Premises, Panambur,  
Dakshina Kannada District, Karnataka**

*Submitted to:*

**Integrated Regional Office, Bengaluru  
Ministry of Environment, Forest & Climate Change  
Zonal Office, Central Pollution Control Board  
Karnataka State Pollution Control Board**



*Submitted by:*

**Environment Management Department**

**Adani Power Limited**

**Village Yelluru, Pilar Post,  
Padubidri, Udupi District, Karnataka**

**Period: October'2023 to March'2024**

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### Introduction

Udupi Thermal Power Plant of Adani Power Limited with capacity of 2X600 MW imported Coal based Power Plant in the Udupi District of Karnataka. Situated in the western coastal region of India, the plant is situated in the village of Yellur, between Mangalore and Udupi.

Udupi Thermal Power Plant is the first independent power project (IPP) using 100% imported coal as fuel in the country. The Udupi Power Project supplies 90% of the power it generates to the State of Karnataka.

Environmental Clearance was issued for development of Port to New Mangalore Port Authority (NMPA). Through concession agreement signed on 9th May 2008 between Udupi Thermal Power Plant (Udupi Power Corporation Ltd.) and NMPA, Berth No. 15 of the port was allocated to Udupi TPP for construction and operation of captive jetty with associated facilities for import and handling of coal for coal-based Subcritical Thermal Power Plant of Adani Power Ltd. in Udupi district in Karnataka.

The Hon'ble NCLT vide its order dated 08.02.2023 sanctioning the scheme of amalgamation/merger of Udupi Power Corporation Ltd. with Adani Power Limited.

Subsequently, transfer of Environment Clearance from Udupi Power Corporation Ltd. to Adani Power Limited is granted from MoEFCC, New Delhi vide file no. J-13012/12/2015-IA.I (T) dated 26th June 2023.

Udupi Thermal Power Plant is submitting this compliance to environmental clearance conditions as per concession agreement signed between Udupi Thermal Power Plant and NMPA.

## Udupi Thermal Power Plant

### Compliance Status on Environmental Clearance Captive Jetty with Facilities for Coal Handling at NMPA Premises Vide Letter No: J-16011/13/2002-IA.III Dated: 16.01.2003.

Sl. No.	Conditions	Compliance Status
<b>A</b>	<b>Specific Condition</b>	
(I)	All the conditions stipulated by KSPCB in their NOC No.KSPCB/CFE-CELL/DEO/AEO-2 /NMPT /2002-2003/115 dated 28.06.2002 shall be effectively implemented.	Complied. All the conditions stipulated by KSPCB are implemented.
(II)	The proposed deep draft Berth at Mangalore will be laid only within the existing corridor/within the existing port limits.	Complied. Deep draft berth is constructed within the NMPA (New Mangalore Port Authority) limits only.
(III)	The laying and commissioning of the berth shall be in accordance with the established procedures, practices and rules and in conformity with the details furnished in the project documents. The New Mangalore Port Trust shall notify the specific procedures, practices and standards to be adopted in laying and commissioning of the berth.	Complied. Deep draft berth is constructed as per the procedures and standards of NMPA; the same is verified by NMPA officials/ Engineers.
(IV)	It shall be ensured that as a result of construction of berth, the drainage of the area is not affected adversely and that there is no ingress of sea water.	Complied. Construction of berth is carried out as per the standards and procedures of NMPA. Drainage system in the berth is constructed in such way that no ingress of sea water is allowed, and it is designed only for storm water and coal runoff.
(V)	The berth shall be provided with in-built oil leakage detection and warning system. Adequate measures for monitoring pressures in excess of those for which the berth is designed shall be ensured to prevent leakage of Oil.	Complied.
(VI)	The environmental safeguard measures and the Environmental Management Plan as given in the project documents shall be effectively implemented.	Complied.
(VII)	The water requirement for the project will be met through Municipal Water Supply. No groundwater shall be tapped within CRZ for the project.	Complied. An agreement was made with City Corporation Mangalore; hence no ground water was tapped in the project area.
(VIII)	Electricity shall be met through KPTCL	Complied. Electricity is supplied by MESCOM-Mangalore under KPTCL.
(IX)	The mangroves, if any, on the site should not be disturbed in any way.	The present Udupi TPP berth falls in the NMPA premises and hence No mangroves are found in the Jetty area.
(X)	The noise generated from the generators during operation shall be minimized by providing	Complied.

**Udupi Thermal Power Plant**

	adequate vibration damping/vibration isolation techniques.	Low noise Generators are provided to minimize vibration by adopting latest techniques.
(XI)	In case the proposed project falls in a cyclone prone area the proponent(s) must prepare an emergency plan and also the ways and means for minimizing as well as mitigating the cyclone disasters.	NMPA has developed emergency plan for Berth No-15.
<b>B</b>	<b>General Conditions:</b>	
(I)	Construction of the proposed structures should be undertaken meticulously confirming to the existing Central/local rules and regulations including CRZ Notification 1991 and its amendments. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned State Govt. Depts/Agencies.	Complied. All the construction drawings and designs are as per NMPA standards and the same is inspected by NMPA officials/Engineers during construction phase.
(II)	The proponent shall ensure that as a result of the proposed constructions, ingress of the saline water into the groundwater does not take place. Regular monitoring should be done for this purpose at appropriate locations on the project site	Complied. All the constructions have been done as per approved drawings near the seashore considering this factor.
(III)	Handling, Manufacturing, Storage and Transportation of all hazardous chemicals should be carried out in accordance with MSIHC Rules, 1999 and subsequent amendments. All approvals from State and Central nodal agencies including OISD, Chief Controller of Explosives, and Chief Inspectorate of Factories must be obtained. A comprehensive contingency plan in collaboration with the concerned authorities must be formulated before commissioning of the project to meet any eventuality in case of an accident.	Berth No-15 is designed for bulk Coal handling.  No hazardous chemical activities are carried in the site and point is not applicable for us.
(IV)	A well-equipped laboratory with suitable instruments to monitor the quality of air and water shall be set up so as to ensure that the quality of ambient air and water conforms to the prescribed standards. The laboratory will also be equipped with qualified manpower including a marine microbiologist so that the marine water quality is regularly monitored in order to ensure that the marine life is not adversely affected as a result of implementation of the said project. The quality of ambient air and water shall be monitored periodically in all the seasons and the results should be properly maintained for inspection of the concerned pollution control agencies. The periodic monitoring reports at least once in 6 months must be sent to this	Complied. Udupi TPP has qualified Environment Management team.  Environmental Monitoring is carried out through NABL and MoEFCC Accredited Laboratory.  Ambient Air Quality Monitoring and Wastewater Quality Monitoring of Coal Settling Pond has been carried out by NABL and MoEFCC Accredited Laboratory and the report is attached as <b>Annexure - I</b> .

**Udupi Thermal Power Plant**

	Ministry (Regional Office at Bangalore) and SPCB.									
(V)	Adequate provisions for infrastructure facilities such as water supply, fuel for cooking, sanitation etc must be provided for the laborers during the construction period in order to avoid damage to the environment. Colonies for the laborers should not be located in the CRZ area. It should also be ensured that the construction workers do not cut trees, including mangroves for fuel wood purpose.	Complied. All the facilities for workers are provided during the construction phase.								
(VI)	To prevent discharge of sewage and other liquid wastes into the water bodies, adequate system for collection and treatment of the wastes must be provided. No sewage and other liquid wastes without treatment should be allowed to enter into the water bodies.	Complied. Liquid wastes are treated with Soak pits and septic tanks.								
(VII)	The quarrying material required for the construction purpose shall be obtained only from the approved quarries/borrow areas. Adequate safeguard measures shall be taken to ensure that the overburden and rocks at the quarry site do not find their way into water bodies.	Complied. All the necessary measures were taken during the construction phase.								
(VIII)	For employing unskilled, semi-skilled and skilled workers for the project, preference shall be given to local people.	Complied.								
(IX)	The recommendations made in the Environment Management Plan and Disaster Management Plan, as contained in the EIA and Risk Analysis Reports of the project shall be effectively implemented.	Complied.								
(X)	A separate Environment Management Cell with suitably qualified staff to carry out various environment related functions should be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.	Complied. A well-qualified environment cell is established. Head of the Environment department is directly reporting to station head.								
(XI)	The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry.	Complied. The amount spent for various activities under Environment for the period from Oct'2023 to March'2024.								
		<table border="1"> <thead> <tr> <th>Description</th> <th>Amount (Rs.)</th> </tr> </thead> <tbody> <tr> <td>Environment Monitoring</td> <td>8,820</td> </tr> <tr> <td>General Environment Management</td> <td>11,81,180</td> </tr> <tr> <td><b>Total</b></td> <td><b>11,90,000</b></td> </tr> </tbody> </table>	Description	Amount (Rs.)	Environment Monitoring	8,820	General Environment Management	11,81,180	<b>Total</b>	<b>11,90,000</b>
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<b>Total</b>	<b>11,90,000</b>									
(XII)	Full support should be extended to the Officers of this Ministry's Regional Office at Bangalore and the Officers of the Central and State Pollution Control Boards by the project proponents during their inspection for	Noted for Compliance assured.								

**Udupi Thermal Power Plant**

	monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	
(XIII)	In case of deviation or alteration in the project included the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions of imposition of new ones for ensuring environmental protection. The project proponents should be responsible for implementing the suggested safeguard measures.	Noted. Full co-operation being extended to mentioned authority always.
(XIV)	This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.	Noted and agreed.
(XV)	This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.	Noted and agreed.
(XVI)	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen at website of the MoEF at <a href="http://www.enfor.nic.in">http://www.enfor.nic.in</a> . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the regional Office of this Ministry at Bangalore.	Complied.
(XVII)	The Project proponents should inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and date of start of Land Development Work.	Noted & informed to the concerned authorities for the development.

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## Ambient Air Quality Monitoring

## Annexure-I

Ambient Air Quality Monitoring (PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> & CO) is done once in a month.

The Monitoring reports for the period of October 2023 to March 2024 are presented in below Table-1.

**Table-1: Ambient Air Quality Monitoring for the period of Oct'2023 to Mar'2024**

Location	Parameters	Limits	Unit	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24
<b>APL Berth No-15</b>	PM <sub>10</sub>	100	µg/m <sup>3</sup>	42.6	46.8	49.5	52.4	54.6	52.4
	PM <sub>2.5</sub>	60	µg/m <sup>3</sup>	26.5	29.8	32.4	35.4	36.8	34.8
	SO <sub>2</sub>	80	µg/m <sup>3</sup>	20.3	21.1	22.6	23.2	24.1	23.6
	NO <sub>x</sub>	80	µg/m <sup>3</sup>	24.5	25.2	26.1	26.8	27.3	26.8
	CO	02	mg/m <sup>3</sup>	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ

Note: BLQ-Below limit of Quantification

## Water Quality Monitoring – Coal Settling Pond

The Monitoring reports for the period of October 2023 to March 2024 are presented in Table-2.

**Table-2: Water Quality Monitoring carried out in Coal Settling Pond for the period of October 2023 to March 2024**

Sl. No	Parameters	Unit	Limit *	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24
1.	pH	-	5.5 - 9.0	6.70	6.80	-	-	-	-
2.	Total Suspended Solids	mg/L	≤ 100	12.3	7.6	-	-	-	-
3.	Oil and grease	mg/L	≤ 20	BLQ	BLQ	-	-	-	-
4.	BOD	mg/L	≤ 100	7.3	7.0	-	-	-	-
5.	COD	mg/L	≤ 250	36.14	43.82	-	-	-	-
6.	Iron	mg/L	≤ 3	0.24	0.27	-	-	-	-
7.	Lead	mg/L	≤ 2	BLQ	BLQ	-	-	-	-
8.	Fluoride	mg/L	≤ 15	BLQ	BLQ	-	-	-	-
9.	Sulphide	mg/L	≤ 5	BLQ	BLQ	-	-	-	-
10.	Ammonical Nitrogen	mg/L	≤ 50	BLQ	BLQ	-	-	-	-
11.	Zinc	mg/L	≤ 15	BLQ	BLQ	-	-	-	-
12.	Copper	mg/L	≤ 3	BLQ	BLQ	-	-	-	-
13.	Chromium	mg/L	≤ 2	BLQ	BLQ	-	-	-	-
14.	Cadmium	mg/L	≤ 2	BLQ	BLQ	-	-	-	-
15.	Nickel	mg/L	≤ 5	BLQ	BLQ	-	-	-	-
16.	Nitrate	mg/L	≤ 20	2.65	5.68	-	-	-	-
17.	Total Kjeldhal Nitrogen	mg/L	≤ 100	BLQ	BLQ	-	-	-	-
18.	Total Residual Chlorine	mg/L	≤ 1	BLQ	BLQ	-	-	-	-

**Note:**

- \* KSPCB Standards for discharge of Effluents (Marine and Coastal Areas)
- BLQ-Below Limit of Quantification
- Due to no rainfall and less activities, there is no outflow from the coal settling pond during Dec'2023 to Mar'2024