



Ref.: APL/UPCL/NMPT/ENV/EC/215/05/23

Date: 26/05/2023

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 in Udupi district in 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 Six-monthly compliance reports for the period of **October'2022 to March'2023** against the conditions of Environmental Clearance for **Captive Jetty with associated facilities** for import and handling of coal-based subcritical Thermal power plant of UPCL through soft copy (**e-mail**).

Thanking you,

Yours sincerely,

for **Adani Power Limited**

**(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,
1st and 2nd Floor, Nisarga Bhavan, A-Block, Thimmaiah
Main Road, 7th 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 CAPTIVE JETTY WITH
ASSOCIATED FACILITIES FOR IMPORT AND
HANDLING OF COAL**

FOR

**1200 (2x600) MW
Udupi Thermal Power Plant**

At

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

Submitted to:

**Integrated Regional Office, Bengaluru
Ministry of Environment, Forests & 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'2022 – March'2023

SIX MONTHLY COMPLIANCE REPORT FROM OCTOBER 2022 TO MARCH 2023 ON ENVIRONMENT CLEARANCE FOR CAPTIVE JETTY WITH FACILITIES FOR COAL HANDLING AT NMPA PREMISES VIDE LETTER NO: J-16011/13/2002-IA.III Dated: 16.01.2003.

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.

Udupi Power Corporation Ltd, a Subsidiary of Adani Power Limited, is submitting this compliance to environmental clearance conditions as per concession agreement signed between UPCL and NMPA.

S. No.	Conditions	Compliance
A	Specific Condition	
(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.	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.	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

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CLEARANCE FOR CAPTIVE JETTY WITH FACILITIES FOR COAL HANDLING AT NMPA PREMISES
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(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 UPCL 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 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	General Conditions:	
(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,	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.

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	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.	
(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 Ministry (Regional Office at Bangalore) and SPCB.	Complied Udupi TPP is having qualified Environment Management team. Environmental Monitoring parameters are carried out through NABL and MoEF&CC Accredited Laboratory. Ambient Air Quality Monitoring is carried out by NABL and MoEF&CC Accredited Laboratory and the report is attached as Annexure - I . Due to less rainfall and less activities in the coal yard during October'2022 to March'2023, there was no water in garland drains and coal yard drains connected to coal settling pond. Hence, there is no outflow from the coal settling pond during the period.
(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 in to 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	Complied. All the necessary measures were taken during the construction phase.

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	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.									
(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 October 2022 to March 2023.								
		<table border="1"> <thead> <tr> <th>Description</th> <th>Amount (Rs.)</th> </tr> </thead> <tbody> <tr> <td>Environment Monitoring</td> <td>7,235</td> </tr> <tr> <td>Environment Management</td> <td>1,50,900</td> </tr> <tr> <td>Total</td> <td>1,58,135</td> </tr> </tbody> </table>	Description	Amount (Rs.)	Environment Monitoring	7,235	Environment Management	1,50,900	Total	1,58,135
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(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 monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	Noted and compliance assured								
(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	Noted Full co-operation being extended to mentioned authority always.								

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	for implementing the suggested safeguard measures.	
(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 http://www.enfor.nic.in . 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

AMBIENT AIR QUALITY MONITORING:

The Ambient Air Quality samples were collected by representative from NABL accredited laboratory.

Method of Analysis

Pollutants	Method of Measurement
Sulphur dioxide (SO ₂), µg/m ³	Improved west and Geake method
Nitrogen Dioxide (NO ₂), µg/m ³	Modified Jacob & Hochheiser
Particulate Matter (PM ₁₀), µg/m ³	Gravimetric
Particulate Matter (PM _{2.5}), µg/m ³	Gravimetric

AMBIENT AIR QUALITY MONITORING LOCATION

Ambient Air Quality Monitoring (PM₁₀, PM_{2.5}, SO₂, NO_x & CO) is done once in a month at UPCL Berth No-15.

The Monitoring reports for the period of October 2022 to March 2023 are presented in below Table: 1

Table-1: Ambient Air Quality Monitoring in UPCL Berth No-15 for the period of October 2022 to March 2023

Location	Parameters	Limits	Unit	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
UPCL Berth No-15	PM ₁₀	100	µg/m ³	57.5	59.8	58.9	60.3	91.0	76.9
	PM _{2.5}	60	µg/m ³	36.5	38.6	39.8	37.5	54.8	48.2
	SO ₂	80	µg/m ³	20.9	21.5	16.9	17.3	68.2	23.5
	NO _x	80	µg/m ³	24.5	25.1	19.7	20.1	76.4	22.8
	CO	02	mg/m ³	0.2	0.4	0.5	0.4	BLQ	BLQ

Note: BLQ – Below limit of Quantification