



Power

Ref.: UPCL/NMPT/ENV/EC/221/05/22

Date: 27/05/2022

To,

Additional Principal Chief Conservator of Forest (APCCF)
Ministry of Environment, Forest and Climate Change
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 Thermal Power Plant of UPCL 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'2021 to March'2022** 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 **Udupi Power Corporation Limited**

(Santosh Kumar Singh)
Authorized Signatory

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 FROM OCTOBER 2021 TO MARCH 2022 ON ENVIRONMENT CLEARANCE FOR CAPTIVE JETTY WITH FACILITIES FOR COAL HANDLING AT NMPT PREMISES VIDE LETTER NO: J-16011/13/2002-IA.III Dated: 16.01.2003.

Environmental Clearance for development of Port was obtained by New Mangalore Port Trust (NMPT). Through concession agreement signed on 9th May 2008 between Udupi Power Corporation Ltd (UPCL) and NMPT, Berth No. 15 of the port was allocated to UPCL for construction and operation of captive jetty with associated facilities for import and handling of coal for coal-based Subcritical Thermal Power Plant of UPCL 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 NMPT.

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 NMPT (New Mangalore Port Trust) 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 with. Deep draft berth is constructed as per the procedures and standards of NMPT; the same is verified by NMPT 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 with. Construction of berth is carried out as per the standards and procedures of NMPT. 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.	UPCL Berth No-15 is designed only for bulk coal handling and as such no vessel maintenance works are taking place in our berth hence the condition shall not applicable to us.
(VI)	The environmental safeguard measures and the Environmental Management Plan as given in the project documents shall be effectively implemented.	Complied with.
(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 with. 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 with.

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		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 NMPT 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.	UPCL 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 with. All the construction drawings and designs are as per NMPT standards and the same is inspected by NMPT 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 with. All the constructions have been done as per approved drawings near the sea shore 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.	UPCL berth No-15 is designed only for bulk coal handling, hence 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	Complied with. UPCL has qualified Environment Management team. Environmental Monitoring is carried out through NABL/MoEF&CC Accredited Laboratory. Ambient Air Quality Monitoring was carried out by NABL Lab and the report is attached as Annexure - I

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	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.	Water sample from the coal settling pond was collected, analysis was carried out by NABL Lab and the report is attached as Annexure - II								
(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 with. 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 with 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 with. 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 with								
(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 with								
(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 with. 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 with. The amount spent for various activities under Environment for the period from October 2021 to March 2022.								
		<table border="1"> <thead> <tr> <th>Description</th> <th>Amount (Rs.)</th> </tr> </thead> <tbody> <tr> <td>Environment Monitoring</td> <td>6,500</td> </tr> <tr> <td>General Environment Management</td> <td>21,098</td> </tr> <tr> <td>Total</td> <td>27,598</td> </tr> </tbody> </table>	Description	Amount (Rs.)	Environment Monitoring	6,500	General Environment Management	21,098	Total	27,598
		Description	Amount (Rs.)							
		Environment Monitoring	6,500							
General Environment Management	21,098									
Total	27,598									
(XII)	Full support should be extended to the Officers of	Noted for Compliance.								

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	<p>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.</p>	
(XIII)	<p>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.</p>	Noted for Compliance.
(XIV)	<p>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.</p>	Noted for Compliance.
(XV)	<p>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.</p>	Noted for Compliance.
(XVI)	<p>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.</p>	Complied with.
(XVII)	<p>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.</p>	Noted for Compliance.



TEST REPORT

Page No. 1 of 1

Name of the Industry	M/s Udupi Power Corporation Limited
Address of the Industry	Yellur Village, Padubidri, Dist Udupi, Karnataka
Sampling Location	NMPT Jetty (A10)
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd
Date of Sample Receipt	26.10.2021
Analysis Commenced on	26.10.2021
Analysis Completed on	30.10.2021
Report Date	01.11.2021
Report No	HECS/AA/096/261021

Date of Sampling	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO	Pb	O ₃	NH ₃	C ₆ H ₆	B(α)P	As	Ni	Hg
	µg/m ³				mg/m ³	µg/m ³				ng/m ³			
25.10.2021	18.4	23.6	55.5	39.8	0.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
NAAQ Standards	80*	80*	100*	60*	2**	1*	100**	400*	5***	1***	6***	20***	-

Note: * : 24 hours average; ** : 8 hours average; *** : Annual average

Test Methods Followed:

- PM₁₀ : IS 5182 (Pt 23): 2006 (RA 2017) (Gravimetric)
- PM_{2.5} : HECS/AIR/SOP/002 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)
- SO₂ : IS 5182 (Pt 2): 2001 (RA 2017) (Improved west and Geake method)
- NO₂ : IS 5182 (Pt 6): 2006 (RA 2017) (Jacob and Hochheiser modified method)
- O₃ : HECS/AIR/SOP/005 Issue 02 dt. 13.06.2018 based on CPCB guidelines vol. I (2011)
- NH₃ : HECS/AIR/SOP/006 Issue 02 dt. 13.06.2018 as per CPCB guidelines vol. I (2011)
- CO : IS 5182 (Pt 10): 1999 (RA 2013)
- Pb, As, Ni : In-house method based on CPCB guidelines vol. I (2011)
- C₆H₆ : GC FID/ GC MS based on IS: 5182 (Pt 11) based on CPCB guidelines vol. I (2011)
- B(α)P : In-house validated method based on CPCB guidelines vol. I (2011)

BDL = Below detection limit; DL - Detection Limit; PM_{2.5}-Particulate matter size less than 2.5 Micron, PM₁₀-Particulate matter size less than 10 Micron; SO₂ Sulphur dioxide; NO₂ - Nitrogen-di-oxide; CO - Carbon Mono Oxide (DL 0.1 mg/m³); O₃-Ozone (DL 10 µg/m³); NH₃-Ammonia (DL 5 µg/m³); Pb-Lead (DL 0.05 µg/m³); As-Arsenic (DL 0.1 ng/m³); Ni-Nickel (DL 0.5 ng/m³); C₆H₆- Benzene (DL 1 µg/m³); B(α)P - Benzo -α-pyrene (DL 0.1 ng/m³); ng/m³ - nanogram per cubic meter; µg/m³ - microgram per cubic meter.

Laboratory and Quality Manager - Authorized Signatory



TEST REPORT

Page No. 1 of 1

Name of the Industry	M/s Udupi Power Corporation Limited
Address of the Industry	Yellur Village, Padubidri, Dist Udupi, Karnataka
Sampling Location	NMPT Jetty (A10)
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd
Date of Sample Receipt	21.01.2022
Analysis Commenced on	21.01.2022
Analysis Completed on	27.01.2022
Report Date	28.01.2022
Report No	HECS/AA/096/210122

RESULTS

Date of Sampling	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO	Pb	O ₃	NH ₃	C ₆ H ₆	B(α)P	As	Ni
	µg/m ³				mg/m ³	µg/m ³				ng/m ³		
20.01.2022	19.1	22.3	51.7	36.5	0.2	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
NAAQ Standards	80*	80*	100*	60*	2**	1*	100**	400*	5***	1***	6***	20***

Note: * : 24 hours average; ** : 8 hours average; *** : Annual average

Test Methods Followed:

PM₁₀: IS 5182 (Pt 23): 2006 / PM_{2.5}: HECS/AIR/SOP/003 : 2017 / SO₂: CPCB guide lines Volume 1: 2012 / NO₂: IS 5182 (Pt 6): 2006 / O₃: HECS/AIR/AMBIENT/SOP/007 :2013/ NH₃: HECS/AIR/AMBIENT/SOP/006 :2013/ CO: IS 5182 (Pt 10): 1999 / Pb : IS: 5182 (P-22): 2004/ As, Ni: HECS/AIR/AMBIENT/009 :2013/ C₆H₆: IS: 5182 (Pt 11): 2006 / B(α)P: IS: 5182 (Pt 12): 2004.

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; ng/m³: nanogram per cubic meter; µg/m³ - microgram per cubic meter; mg/m³ . milligram per cubic meter; SO₂ Sulphur dioxide (LOQ 5 µg/m³); NO₂ - Nitrogen-di-oxide (LOQ 5 µg/m³); PM₁₀-Particulate matter size less than 10 Micron (LOQ 10 µg/m³); PM_{2.5}-Particulate matter size less than 2.5 Micron (LOQ 5 µg/m³); CO - Carbon Mono Oxide (LOQ 0.1 mg/m³); Pb-Lead (LOQ 0.05 µg/m³); O₃-Ozone (LOQ 10 µg/m³); NH₃-Ammonia (LOQ 5 µg/m³); Benzene-(LOQ 1 µg/m³);B(α)P- Benzo -α-pyrene(LOQ 1 ng/m³); As-Arsenic (LOQ 2 ng/m³);Ni-Nickel (LOQ 10 ng/m³).

CONCLUSION: ANALYSED PARAMETERS MEET THE NAAQ STANDARDS

*****End of Report *****



Authorized Signatory


Dr. RAJKUMAR SAMUEL
 Director Technical

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Laboratory Services Division

(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Page No. 1 of 1

Name of the Industry	M/s Udupi Power Corporation Limited
Address of the Industry	Yellur Village, Padubidri, Dist Udupi, Karnataka
Sampling Location	NMPT Jetty (A10)
Sample Drawn by	Hubert Enviro Care Systems (P) Ltd
Date of Sample Receipt	21.01.2022
Analysis Commenced on	21.01.2022
Analysis Completed on	27.01.2022
Report Date	28.01.2022
Report No	HECS/AA/096/210122N

RESULTS

Date of Sampling	Hg
	ng/m ³
20.01.2022	BLQ
NAAQ Standards	NS

Test Methods Followed:

Hg: USEPA method - Acid Digestion followed by ICP-MS analysis.

Note: BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification; ng/m³: nanogram per cubic meter; Mercury (LOQ 1 ng/m³); NS - Not Specified

*****End of Report *****




Authorized Signatory

Dr. RAJKUMAR SAMUEL
Director Technical

**TEST REPORT**

Name of the Client	M/s. Udupi Power Corporation Ltd.,
Address of the Client	Yellur Village, Padubidri, Dist Udupi
Sample Description	NMPT Coal Settling Pond (Berth No. 15)
Sample Mark	WW-1
Sample Drawn by	M/s HECS
Date of Sampling	02.09.2021
Qty. of sample received	2 L in HDPE Can and 1 L in Amber bottle
Date of Sample Receipt	02.09.2021
Analysis Commenced On	02.09.2021
Completed On	09.09.2021
Report No.	HECSM/WW/001/020921
Report Date	11.09.2021

RESULTS

S.No	Parameters	Units	Results	KSPCB Std.	Test Method
1.	Colour	Hazen	3.0	No visible colour	IS 3025 (Pt 4) :1983 (RA 2017)
2.	Odour	-	No offensive odour	No offensive odour	IS 3025 (Pt 5):1983 (RA 2018)
3.	pH at 25°C	-	7.0	5.5 - 9.0	IS 3025 (Pt 11): 1983 (RA 2017)
4.	Total Suspended Solids	mg/L	5.6	100	2540 D APHA 23 rd Edn., 2017
5.	Floating material, oil and grease and scum (including POL products)	mg/L	2.3	≤ 10	IS 3025 (Pt 39): 2000 (RA 2014)
6.	BOD, 3 days at 27°C	mg/L	6.6	≤ 10	IS 3025 (Pt 44): 1993 (RA 2014)

Note: BDL - Below Detection Limit; mg/L - Milligrams per Liter; KSPCB – Karnataka State Pollution Control Board

INFERENCE	As per KSPCB standards, the analysed parameters are within the prescribed limit.
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*****End of Report*****


(Dr K GANESAN)
Laboratory and Quality Manager - Authorized Signatory