



Ref. No. Env /Six EC-V/ 015

Date: 25.05.2021

The Dy. Director,
Ministry of Environment Forests and Climate Change,
Kendriya Bhawan, 5th Floor,
Sector – H, Aliganj,
LUCKNOW – (U.P.) – 226 024

Registered

Sub: Six monthly compliance status report for stage V (October 20- March21)

Ref: Your letter No.IV/ENV/UP/THE-18-99-1997/107 dated 31.05.2011

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|--------------------------------|---|
| 1. NAME OF THE PROJECT | : HINDALCO INDUSTRIES LIMITED
(Renusagar Power Division) |
| 2. CLEARANCE LETTER NO. | : J-13011/13/95IA.II Dt.10.12.1996 (Stage-V) |
| 3. PROJECT CODE | : UP-18-99-1997 |
| 4. TIME PERIOD | : October 2020 TO March 2021 |

Dear Sir,

As desired, please find below the status of our Environmental Clearance conditions stated for expansion stage V:-

Specific Conditions:

S.N.	EC Conditions	Compliance Status
2(i)	The conditions stipulated by State Pollution Control Board letter No.4494/C-2/NOC/Renusagar Power/3068/96 dated 03.01.1996 for stage-V should be strictly implemented.	We have implemented all the conditions stipulated by UPPCB. With regards to point no.2,3,4,5,6,7,8,9,10,12 & 13 we have informed you on status vide our letter No.P&IR/HRD/7139/16450 dated 10.10.2001. PonitNo.11- Policy under Public Liability Insurance Policy Act-1991 has been granted for May 2020 to April 2021. Copy is attached in Annexure-1.
2(ii)	As per MoEF Condition No.2(ii) the stack height of 110 m with continuous monitoring facility should be installed.	Stack of 110 m height with continuous monitoring facility has been installed.
2(iii)	Electrostatic Precipitator having efficiency of 99.8% should be installed and it should be ensured that particulate matter emission should not exceed the prescribed limit of 150mg/Nm ³ .	Electrostatic precipitator having efficiency of 99.8% has been installed in conformity with standard norms/directions.

Hindalco Industries Limited

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2(x) A closed circuit cooling device with induced draft should be provided for cooling purposes.

Cooling Towers are provided with closed circuit cooling with induced draft cooling system.

2(xii) Continuous monitoring of ground water should be undertaken by establishing good network of observation wells in consultation with the Central Ground Water Board. Result and data collected should be analysed to ascertain the status of water quality and finding should be submitted for evaluation.

We have made four No Bore well in consultation with Central Ground Water Board and monitoring of ground water is being carried out regularly by a approved laboratory M/s Prakriti Consultant Services Lucknow. Report is attached in Annexure-2 for your kind review.

2(xix) All effluents generated in various plant activities should be collected in the Central effluent treatment plant and treated to ensure adherence to specified standard of discharge. The concept of zero discharge should be adapted to maximum possible extent.

All the industrial effluent is collected and get treated in Effluent Treatment Plant which is maintained well to the utmost operational effectiveness and efficiency. We have evolved recycling system and reuse of entire domestic and industrial treated effluents, hence there is zero discharge to Rihand lake. Approved Third party report of treated effluents for dated 10.03.2021 is given in Table Report is attached in Annexure-3.

S.N	Para meter	Unit	ETP outlet	STP outlet	AWTP outlet
1	pH		7.60	7.50	7.10
2	BOD	mg/l	18.4	22.0	20.0
3	COD	mg/l	74.0	64.0	90.0
4	Oil grease	mg/l	1.8	1.8	2.8
5	Fluoride	mg/l	1.6	1.2	1.4

2(x) The Existing brick making unit should be further expanded to ensure full utilization of from the existing & proposed power project. Brick made out of ash should be utilized for construction of the expansion project to a maximum possible extent.

The installed capacity of Brick Making Plant is of 60000 Bricks per day. We are utilizing ash Bricks Blocks for the in house construction work & supplying to nearby Power projects & public. Apart from this we are collecting fly ash in Dry forms and sending it to Cement companies to maximum possible extent. A list of Cement companies are enclosed in Annexure-4.

2(xi) Ash disposal area should be properly lined to avoid seepage of water and ground water contamination. Green belt should be created around the ash disposal area for controlling fugitive dust.

Ash Pond area has been made complete water tight. It has been lined with LDPE (Low density polythene) to avoid seepage of water & ground water contamination. Greenbelt has been developed around the ash pond for controlling the fugitive dust.

2(xiii) Adequate funding provision should be provided for implementation of environmental mitigative measures with adequate scope of its.

We have incurred an amount of Rs. 38036.523 lac up to 5 units.
For Units 6&7 (Stage-IV) Rs.5377.981 lac
For 8th Unit (Stage V) Rs.12557.270 lac

enhancement, if required, in future. Details on the financial requirement, year wise and item wise, should be worked out and submitted to the ministry by December, 1996.	For units 9&10(Stage-VI): Rs. 7694.202 lac. Total expenditure incurred so far on all the 10 Units was Rs. 63665.977 lac as on March, 2020. Detailed up to date Expenditure is attached in Annexure-5.
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General Conditions:

S.N.	EC Conditions	Compliance Status											
2(v)	Noise level should be limited to 85 dBA & regular maintenance of equipments should be undertaken. For people working in the area of generator halls and other high noise area, ear plug should be provided and their use should be ascertained.	Maintenance of equipment of plant is a regular feature. People working in the noise area have been provided with protection devices: ear plug, ear muff etc. Their use is ascertained by site supervisors.											
2(vi)	For controlling fugitive dust, regular sprinkling of water in coal handling and vulnerable areas of the plant should be ensured.	For controlling fugitive dust, regular sprinkling of water is done in CHP and various areas of the plant. Installed Chem-jet dust suppression system at various discharge points in our coal handling areas and dust extraction devices has been installed to further lessen the dust level.											
2(vii)	Afforestation should under taken in and around the power plant and a norm of 1500-2000 trees should be followed. Afforestation plan should be detailed and submitted by December, 1996 and the schedule given should be strictly adhered to.	Green Belt all around the Plant, Colony & Ash disposal area is being developed and tree plantation has been done in the areas as per the plan. A detailed Afforestation plan has been submitted. Apart from this, voluntary afforestation is a regular feature at Renusagar. 34.15% of total area has been developed as green belt. Plantation report for period of Oct20 to March2021 is attached in Annexure-6.											
2(xii)	Regular Monitoring for SPM, SO ₂ , and NO _x around the power plant should be carried out & record maintained. The data so collected should be properly analyzed and submitted to the Ministry every six month.	Regular monitoring report of SPM, RPM(PM ₁₀ and PM _{2.5}), SO ₂ , NO _x around the power plant is being carried out and six monthly report is being sent to Regional Office, North region, Ministry of Environment Forests and Climate Change, Lucknow. Approved Third party report for dated 08-10/03/2021 is given here under which clearly indicates that all parameters are within the prescribed limits. Report is attached in Annexure-7											
		<table border="1"> <thead> <tr> <th>Source</th> <th>Para meter</th> <th>Unit</th> <th>Average Value</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Ambient Air</td> <td>PM_{2.5}</td> <td>µg/m³</td> <td>36.3</td> </tr> <tr> <td>PM₁₀</td> <td>µg/m³</td> <td>67.70</td> </tr> </tbody> </table>	Source	Para meter	Unit	Average Value	Ambient Air	PM _{2.5}	µg/m ³	36.3	PM ₁₀	µg/m ³	67.70
Source	Para meter	Unit	Average Value										
Ambient Air	PM _{2.5}	µg/m ³	36.3										
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		Quality.			
		SO2	$\mu\text{g}/\text{m}^3$	25.2	
2(xiv)	Full cooperation should be extended to the Scientist/Officers from Regional office of the ministry located at Lucknow and central and state Pollution Control Boards who would monitoring the implementation of Compliance of Environmental Status. Complete set of impact assessment report and the Management Plans should be forwarded to the regional office for their use during monitoring.	Stack Emission.	NO2	$\mu\text{g}/\text{m}^3$	27.4
			PM	mg/Nm^3	92.570
2(xv)	Monitoring committee should be constituted for reviewing the compliance to various safeguard measures by involving recognized local NGOs, Pollution Control Boards, Institutions, Experts etc.	We are extending our full cooperation to the Officers of MoEF CC and Pollution Control Boards who visited for compliance monitoring. Reports related with impact assessments & management plans are submitted to the regional Office.			
		The committee includes Regional Officer-UPPCB, Robertsganj, Head, Environmental Division, CII, New Delhi, Prof. B.D.Tripathi, Director-Centre for Environment & Technology, Botany Dept. ,BHU, Varanasi, Dr. S.K. Bhargav, Ex Head, Environmental Monitoring Division, IITR(Indian Institute of Toxicological Research) ,Lucknow and Sri Subhash Yadav for seeking guidance & opinion for improving environment on continuous basis.			

We hope, you will kindly find the same in order.
Thanking you and assuring you of our best co-operation at all times.

Yours faithfully,
For HINDALCO INDUSTRIES LIMITED
(Renusagar Power Division)


(Kamlesh Maurya)
Assistant Manager-Environment