

Ref. No. Env/Six-EC-VI/ 014

Lucknow (UP) - 226 024

Date: 24/05/2025

The Dy. Director,
Regional Office (Central)
Ministry of Environment and Forest and Climate Change,
Government of India,
5th Floor, Kendriya Bhawan,
Sector – H. Aligani.

Through e-mail

Sub: Six monthly compliance status report for stage VI (Oct 2024 - March2025)

Ref: (i) Your Letter No.J-13012/23/98-IA.II (T) dated 28.11.2001

(ii) Your letter No.J-13012/23/98-IA.II (T) dated 10.03.2014 reg. amendment in EC for change of source of coal.

1. NAME OF THE PROJECT

: HINDALCO INDUSTRIES LIMITED

(Renusagar Power Division)

2 .(I) CLEARANCE LETTER NO. : J-13012/23/98IA.II (T) Dt.28.11.2001 (Stage-VI) (II)CLEARANCE LETTER NO. : J-13012/23/98IA.II (T) Dt.10.03.2014 (Stage-VI Amended)

3. PROJECT CODE

: UP-18-99-1997

4. TIME PERIOD

: October 2024 - March 2025

Dear Sir,

As desired, please find below the status of our EC conditions stated for expansion Stage VI:-

EC No. J-13012/23/98IA.II (T) Dt.28.11.2001 (Stage-VI):

Specific Conditions:

S.N.	Conditions	Compliance Status
3(i)		We have implemented all the conditions of NOC stipulated by UPPCB. With regards to point no.2,3,4,5,6,7,8,9,10,11,13,14,15,16,17,19&20 complied via letter dated 20.07.2006. PonitNo.12- Policy under Public Liability Insurance PolicyAct-1991 has been granted from 05.12.2024 to 04.12.2025. Copy is attached in annexure-1 PonitNo.18-Authorisation issued under the provisions of Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016. The authorization is valid up to period of 08/07/2026. Copy is attached in

		annexure-2.
3(ii)	The expansion units (2x80 MW) should be installed in the space avail for available in the premises of existing power station and the land acquisition for ash disposal should also be restricted to 151.25 acres at new ash disposal area.	Complied. 2x80MW units shall be installed in the space available in the existing plant. Ash disposal area at Bichhari shall within 151.25 acres.
3(iii)	As per MoEF Condition No.3(iii)the stack height of 130 m with continuous monitoring system and it should be ensured that exist velocity is maintained at 20.3m/s and the temperature at130°C as these have been used as input parameter for estimation of GLC values.	Complied. Chimney of 130 meter height with continuous monitoring (Opacity meter) provided.
3(iv)	Electrostatic Precipitator having efficiency not less than 99.8% should be installed and it should be ensured that particulate matter emission would not exceed the prescribed limit of 100mg/Nm3.	Complied. Electrostatic precipitator having efficiency of 99.9% has been installed to ensure the particulate emission within prescribed limit.
3(v)	Only make up water for the project should be drawn from Rihand Reservoir as per the permission given by UP Irrigation Department. Closed circuit cooling Towers should be provided for conservation of water. As committed zero discharge of effluent should be adhered to and at no stage discharge of treated water would be permitted either into reservoir or for irrigation out side the plant premises.	
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	3(vi)	All effluents generated :-	T						
	J(VI)	All effluents generated in various plant activities should be collected	Comp	lied.					
		in the Central effluent treatment plant/Central Monitoring Basin and treated to ensure adherence to specified standard of usage.	All the Efflue utmos evolve and i	nt Treatmen st operationa ed recycling ndustrial tre	t Plant Il effect systen eated (which is tiveness or and reserved	s maintai and efficeuse of e thence	d get treated ned well to t iency. We ha entire domes there is ze party report	the ive stic
			treate	d effluents	for da	ted 11-	15/02/20°	25 is given	OT in
			Table.	Report is at	tached	in annex	xure-3	25 15 GIVEN	""
			S.N.	Parameter	Unit	ETP outlet	STP outlet	AWTP outlet	
			1	рН		7.52	7.61	7.21	
			2	BOD	mg/l	17.0	8.0	19	
			3	COD	mg/l	56.0	40.0	50	
			4	Oil/grease	mg/l	BDL	2.3	BDL	
\vdash	3(vii)	Coal for the project, as for as	5 Compli	Fluoride	mg/l	0.69	0.73	0.65	
		possible, from Jhingurda Coal Mines of Northern Coalfield Limited should be used@1310 TPD for the expansion units. Fuel should be transported only through existing two aerial ropeways from Mine head to the projects site. In case of change of coal mines, detail of fuel analysis and mode of transportation should be submitted in the Ministry for approval.	We ha Jhingui vide o Ministr	ve applied f rda Coal min our letter	ies to i No.Env led the	Krishnash v/293 c Change	nila Coal dated 2 of source	age coal from mines of NC 8.02.2013.Th te of coal vid 03.2014.	L,
	3(ix)	State Department of Environment, Government of U.P. vide their letter dated 21 st July,2001 along with the condition stipulated in the	the rep	recommenda ment, Govt.	of U.F	o, and co	onditions	Pepartment o stipulated in y State Govt	2

3(xii) With 39% average ash content ash generation for the expansion project should not exceed 3.2 lacs tones per annum. As per MoEF of September Notification 1999,100% ash utilization should be ensured within 9 years of commissioning of the plant. The ash disposal use of area accordingly should restricted to 151.25 acres. A green belt of 100 meter on Eastern side and 50 meter on Southern should be developed covering an area of 36 acres. Ash storage area should not be limited only to 70 acres. For avoiding contamination of ground

Complied.

Action plan for 100% utilization of ash has been prepared and submitted to Ministry. Fly ash utilization is being done as per action plan.

The Ash Disposal area at Bichhari is within 151.25 acres.

A green belt covering an area of 36.00 acres (i.e.14.50 hectare) around new ash dyke at Bichhari has been developed.

For avoiding ground water contamination, ash disposal area at Bichhari has been completely covered with LDPE lining.

3(xiv)

A detailed scheme of Afforestation programme covering an area of hectare including 49.5 14.50 hectare, around new ash dyke should be submitted to the Ministry clearly indicating width of greenbelt along the plant ash disposal area, boundary, internal roads etc. A norm of 1500-2000 trees per hectare should be for Afforestation followed programme. Financial allocation of Rs.38.16 lacs should be included in the budget of the project for this purposes. Detailed proposal in this regard should be submitted to the Ministry within 3 months. For ensuring good quality of plants of specified species, a nursery should be created in consultation with State Forest Department and Botanical Research National Institute, Lucknow.

water ,ash disposal area should be

covered with LDPE lining.

Complied.

Under the Green Belt Development Programme covering an area of 49.5 hectare of land, a total of 1,21,203 sapling of various varieties commensurate to local biodiversity of area were planted in and around plant, colony and ash dyke area against the target of 85,900.

2/ \	I the date of the date of the territory	
3(xv)	Hindalco Industries Limited should establish special Environment Cell at site for this project for consultation on day to day basis during project planning and implementation of the project. As submitted dated 5th November, 2001, experts should be consulted for special issues.	Complied. We have constituted Environmental Cell for monitoring of various environmental issues. Further a panel of expert has been constituted for seeking guidance, opinion & continual improvement of various environmental matters. The panel includes Regional Officer-UPPCB, Robertsganj, Head, Environmental Division, CII, New Delhi, Prof. B.D. Tripathi, Director-Centre for Environment & Technology, Botany Dept., BHU, Varanasi, and Dr. S.K. Bhargava, Chairman UP State Level Expert Appraisal Committee and Ex-Head & Dy. Director, Environmental Monitoring Division, IITR(Indian Institute of Toxicological Research), Lucknow.
3(xvii)	The project proponent should advertise at least two local newspapers widely circulated in the region around the project, one of which will be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at website of the Ministry of Environment & Forest at http://www.envfor.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.	Complied. We advertised the information in two local newspapers 'Hindustan Times'(English) and 'DainikJagran'(Hindi) widely circulated in the region around the project on 5/12/2001 out of which one is in the vernacular language of the locality. The copy of the same has already been submitted to Regional Office of the Ministry.
3(xviii)	A monitoring committee should be constituted for reviewing the compliance of various safeguard measures by involving recognized local NGOs, Pollution Control Board, Institutions, Experts etc.	Complied. The committee includes Regional Officer, UPPCB, Robertsganj, Head Environmental Division, CII, New Delhi, Prof. B.D. Tripathi, Dept of Botany, BHU, Varanasi, Dr. S.K. Bhargava, Ex head, EMD, IITR, Lucknow, and Sri SubhashYadav for seeking guidance & opinion for improvement of environment.
3(xix)	The project authorities should inform the Regional Office as well as Ministry the date of financial	Complied.

closure & final approval of the
project by the concerned
authorities and the date of start of
land development work.

General Conditions:

S.N.	Conditions	Compliance Status
3(viii)	For maintaining the pollution load at existing levels and for its improvement and also to ensure that the expansion project involving installation of the two units of 80MW capacity each does not deteriorate existing environmental status. It should be ensured that revamping and up gradation programme for control SPM, SO2, and NOx is under taken and synchronize with commercial operation of the expansion units.	Complied. We shall ensure that pollution load does not exceed the existing level after installation of two units. To maintain the existing pollution load (SPM, SO2, NOx), we have upgraded and revamp the units and thus controlling the concentration of pollution load and we shall ensure that expansion unit does not deteriorate the environment.
3(x)	Noise level should be limited to 75 dBA & regular maintenance of equipment should be undertaken. For people working in the area of generator halls and other high noise area, ear plug should be provided.	People working in the noise area have been provided with ear plugs and earmuff protection devices. Their use is ascertained by site supervisors.
3(xi)	For controlling fugitive dust, regular sprinkling of water in coal handling and vulnerable areas of the plant should be ensured. In addition, use of Chem —jet for controlling fugitive dust at coal handling site should also be continued as reflected in the environmental management programme submitted to the Ministry.	For controlling fugitive dust regular sprinkling of water is being done in coal handling and various areas of the plant. Dust suppression system, dust extraction device, water sprinklers at all stacker mouth, rain gun around periphery of coal yard & roadside mechanical water sprinklers in CHP yard have been installed and are operational to control dust pollution and keep the dust level within the prescribed limit.
3(xiii)	Detailed Socio-economic survey should be undertaken for the additional area proposed to be acquired for ash disposal. The resettlement plan should be got approved from District Collector and submitted to the Ministry	Ash disposal yard made on forest land along with some purchased land. Displacement of people had not occurred due to this activity.

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	within six months. As submitted in the EIA report, there should					
	be no displacement of people					
7,0	due to the acquisition of land.					
3(xv)	Regular Monitoring for SPM, SO2, and Nox around the power plant may be carried out & record maintained. Monitoring stations should be established in	We have in	four direct	tions in co	nt Air Quality N Insultation and for PM10, PM2	approval
	consultation with the State Pollution Control Board.	NOX is beir reports are report for report in A at Renusa	ng carried o e being ser dated 11-1 nnexure-4.	ut, records at regularly 5/02/2025 03 No. CAA data of	are maintained Approved The is given in to AQMS had been 03 No. CAA	d, and the nird party able. The ninstalled
		Source	Para meter	Unit	Average Value.	
		Ambient	PM2.5	μg/m3	32.92	
		Air	PM10	μg/m3	59.30	
		Quality.	SO2	μg/m3	21.68	
			NO2	μg/m3	20.70	
		Stack Emission.	PM	mg/Nm3	80.57	
3(xx)	Full cooperation should be	Complied.	-			
	extended to the					
	Scientist/Officers from Regional	We are	extending	our full	cooperation	to the
	office of the ministry located at	Scientist/Of	ficers from	Regional	office of the	Ministry
	Lucknow and central and state				d State Pollutio	
	Pollution Control Boards who would monitoring the	Boards durii	ng their visit	& monitori	ng for complian	ice.
	would monitoring the 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.					
	E.	¥				

EC No.	J-13012/23/98IA.II (T) Dt.10.03.20	014 (Stage-VI Amended EC):
3(xxi)	Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the Ministry.	Complied. Solar Plant of 2.3 MWp DC capacity has been installed at Old ash Dyke area. The Old ash Dyke area is a part of the plant area, as per NOC letter No.G19804/C-2/NOC/3227/2001 dated 23.03.2001
3(xxii)	A long term study on radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.	Radioactivity and heavy metal test report of coal, Bottom ash & Fly ash are being measured offline by reputed institute M/s Sri Ram Institute of Industrial Research, Delhi. Report is attached in Annexure-2
3(xxiii)	Mercury emission from stack shall also be monitored on periodic basis.	Complied. Analysis is being done by M/s Prakriti Consultants Services, Lucknow on quarterly basis.
3(xxiv)	Fugitive emission shall be controlled to prevent impact on agricultural or non-agricultural land.	Complied. We ensure that fugitive to be at minimum level so that it does not affect agricultural and non-agricultural lands.
3(xxv)	No ground water shall be extracted for use in operation of the power plant even in lean season.	Complied. We do not use ground water for plant Operation
3(xxvi)	Hydro geological study of the area shall be reviewed annually and report submitted to the Ministry. No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up/operation of the power plant.	Complied. We have conducted study from approved third party. The report is attached for your reference and perusal.

2/2022:23	Minimum	
3(xxvii)	Minimum required	
	environmental flow suggested	Complied.
	by the competent Authority of	
	the State Govt. shall be	Renusagar is Zero Liquid discharge unit. All effluents are
	maintained in the Channel /	recycled, treated and reused in ash plant and cooling
	Rivers (as applicable) even in	purposes.
	lean season.	F-000 18 - 00-00-000
3(xxviii)	Fly ash shall not be used for	Complied.
*:	agricultural purpose. No mine	
	void filling will be undertaken as	i)Fly Ash is not used for agricultural purpose.
	an option for ash utilization	y vy vast see see see signament as partpool.
	without adequate lining of the	ii)Mine Void filling is also not done.
	mine with suitable with suitable	inji-inic void filling is also flot dofic.
	media, such that no leachate	
	shall take place at any point of	
	time. In case the option of mine	
	void filling is to be adopted,	
	prior detailed study of soil	
	characteristics of the mine area	
	shall be undertaken from an	
	institute of repute and adequate	
	clay lining shall be ascertained	
	by the State Pollution Control	
	Board and implementation done	
	in close coordination with the	
2(State Pollution Control Board.	Complicat
3(xxix)	Regular monitoring of ground	Complied.
	water level shall be carried out	
	by establishing a network of	i)02 no piezometric borewell already installed and water
	existing wells and constructing	level and quality are being monitored and reports being
	new piezometers. Monitoring	submitted to M/s UPPCB, Robertsganj.
	around the ash pond area shall	
	be carried out particularly for	ii) Water quality of the surface and ground water of
	heavy metals(Hg,Cr,As,Pb) and	Bichhari ash dyke area are quarterly being monitored by
14.0	records maintained and	approved lab of UPPCB & MoEFCC and reports being
	submitted to the Regional Office	submitted to M/s UPPCB, Robertsganj.
	of this Ministry. The data so	
(Sec)	obtained should be compared	
	with the baseline data so as to	9
	ensure that the ground water	
	quality is not adversely affected	
	due to the project.	
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3(xxx)	Monitoring of surface water	Complied.
	quantity and quality shall also	
12	be regularly conducted and	Surface water quality report & Ground water quality test of
	records maintained. The	different locations are being monitored by approved third
	monitored data shall be	

	submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.	party. The report is attached in Annexure-5 for your kind perusal.
3(xxxi)	Green belt consisting of 3 tier of plantation of native species around plant and at least 100m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and	i) Plantation of tree continues as a regular activity at Renusagar Power Division.ii) 34.33% of total area has been developed as Green Belt.
a.	adequate justification shall be submitted to the Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 75%.	iii)Plantation report for period of October2024 to March 2025 is attached in Annexure-6.iv) Miyawaki Plantation developed at Plant and village locations.
3(xxxii)	Three tier green belt shall be developed all around Ash Pond over and above the Green Belt around the plant boundary.	Complied. Regular Plantation is being done around ash pond, colony and plant areas. Apart from this we are also developing Miyawaki Plantations as per directions of UP Pollution Control Board.
3(xxxiii)	A common Green Endowment Fund shall be created and the interest earned out of it shall be used for the development and management of the green cover of the area.	Complied. Green Belt development expenditure for FY: 2024-25 is Rs 3.5 Lac
3(xxxiv)	A minimum amount of 0.4% of the project cost as one time capital cost shall be earmarked for activities to be taken up under CSR during construction phase of the project. Recurring expenditure for CSR thereafter shall be1/5 th of capital cost per	Complied. Recurring CSR expenditure is Rs 49.84 Lac for FY: 2024-25 enclosed in Annexure-7. Social Audit of CSR schemes has been conducted for adopted villages by M/s Kashi Vidyapeeth, Varanasi. Report is awaited.
12	annum or as per CSR guidelines of Government of India, whichever is more till the life of the plant. Social audit for the	

	CSR Schemes shall be carried	
	out periodically by reputed	
	university or an institute as per	
	the CSR guidelines of Govt. of	
	India and details to be	
	submitted to MoEF besides	
2()	putting it on company's website.	
3(xxxv)	CSR scheme should address	
	Public Hearing issues and shall	Complied.
	be undertaken based on need	
	based assessment in and	
	around the villages within5.0 km	CCD schemes have been developed to address mublic
	of the site and in constant	CSR schemes have been developed to address public
	consultation with the village	hearing issues. Various CSR activities are being done
		voluntarily. Some activities of CSR are also being done
	l	regularly as per directions of administration.
	Administration. As part of CSR	
	prior identification of local	
	employable youth and eventual	
	employment in the project after	
	imparting relevant training shall	
	be also undertaken.	
	Development of fodder farm,	
	fruit bearing orchards,	
	,	
	vocational training etc. can form	
	a part of such programme	
	Company shall provide separate	
	budget for community	
	development activities and	,
	income generating programmes.	t "
	Vocational training programme	y .
	for possible self employment	•)
	and jobs shall be imported to	
	and jobs shall be imparted to	
	identify villagers free of cost.	
3(xxxvi)	An Environmental Cell shall be	Complied.
	created at the project site itself	
	and shall be headed by an	A well-established Environmental cell is already in place to
	Officer of the company of	monitor the Environmental safeguard. Head of the
	appropriate seniority and	environment cell reports to unit head.
	qualification. It shall be ensured	environment cen reports to unit fleat.
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	that head of the Cell shall	
-	directly report to the head of	,
	the Organization.	×
3(xxxvii)	The Environmental Statement	Complied.
	for each financial year ending	
	31st March in Form-V as is	Environmental statement is being sent annually by e-mail
	mandated to be submitted by	to the regional office of the ministry.
1		
		to the regional office of the ministry.
2	the project proponent to the concerned State Pollution	to the regional office of the ministry.

	Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of Environmental clearance	
	conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.	
3(xxxviii)	formulate a well laid Corporate Environment Policy and identify	Complied.
	and designate responsible Officers at all levels of its hierarchy for ensuring	
	adherence to the policy and compliance with the conditions stipulated in this clearance letter	
	and other applicable environmental laws and regulations.	

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 Rower Division)

(Kamlesh Maurya) Head (Environment)