



SPEEDPOST

CPCB/PCI-II/VIPC/HIL(HKD)/ 2017-18/11094

18/09/2017

To

M/s Hindalco Industries Ltd.
Hirakud Complex, Hirakud
Dist.-Sambalpur, Odisha
Pin-768016.

Subject: Directions under Section-5 of the Environment (Protection) Act, 1986 regarding installation of on-line effluent and emission monitoring system- Directions thereof:

WHEREAS, the Ministry of Environment & Forests, Govt. of India, vide notification S.O.157(E) of 27.02.1996 has delegated powers vested under Section 5 of the Environment(Protection) Act,1986 (29 of 1986) to the Chairman, Central Pollution Control Board (CPCB), to issue direction to any industry, Municipal Corporation, Municipal Council, Cantonment Board to any local or other Authority for the violation of emission and effluent standards notified under the Environment (Protection) Rules,1986 and amendments thereof; and

WHEREAS, a joint inspection team comprising of officials from CPCB and OSPCB carried out inspection of the area on 31/05/2016 to investigate the complaint and identified three Plants of M/s Hindalco Industries Limited (HIL), Hirakud, Odisha, namely- M/s Hirakud Aluminum Smelter, M/s Hirakud Power and M/s Hirakud FRP, discharging industrial effluent into the river Mahanadi and polluting the river. The joint team inspected the external periphery of the plants and the adjacent river stretches and made the following observations:

- All three Plants are under the management of M/s HIL, Hirakud, Odisha and are located in close proximity to the river Mahanadi.
- M/s Hirakud FRP was found discharging waste water directly into river Mahanadi. M/s Hirakud Aluminum Smelter and M/s Hirakud Power were found discharging effluent into the Kujur Nullha for onward draining & discharge into river Mahanadi.
- As per the consents, all the three Plants were required to have 'Zero Liquid Discharge' (ZLD) systems. However, M/s Hirakud FRP and M/s Hirakud Power were found to have two discharge points each coming out of their boundary walls for discharging untreated waste; whereas in case of M/s Hindalco Aluminum Smelter, one discharge point was found. This is a serious violation of the consent condition.

- Interactions with OSPCB Officials and the local residents also reveal that release of effluent from these Plants happen to be a regular phenomenon and moreover, the discharge in general is substantially higher than that found on the day of inspection.

WHEREAS, the results of samples analysed by CPCB indicated the non-compliance particularly, M/s Hirakud FRP discharge registered very high values of BOD, COD, TSS and Oil & Grease which clearly confirmed the release of untreated effluent from this plant consequently leading to deterioration of downstream river water quality; and

WHEREAS, it was evident from the above observations that all the three Units stand non-compliant severely flouting the requirement of ZLD systems releasing effluent into the Mahanadi river and consequently posing serious threats to human health and environment; and

WHEREAS, in view of the above observations and in exercise of the powers delegated to the Chairman, CPCB under section 5 of the Environment (Protection) Act, 1986, a Show Cause Notice [CPCB/PCI-II/VIPC/HIL(HKD)/9554] was served on 16/08/2017 directing the industries to show cause as to why all the three Units shall not be closed down until all necessary pollution control measures are planned and implemented so as to comply with the prescribed standards to the satisfaction of CPCB; and

WHEREAS, M/s HIL, Hirakud representing all the three units, replied to CPCB's Show-cause notice on 26/08/2016 providing the facts and explanations against CPCB's inspection observations to show their compliance against the pollution laws; and

WHEREAS, in order to verify the facts and compliance as mentioned in the above reply of M/s HIL Hirakud, compliance verification inspections of all three units was again carried out by a Joint Team of Officials from CPCB, RD, Kolkata (Eastern Zone) and Odisha Pollution Control Board (OSPCB) in which again non-compliance was observed in terms of emission & effluent quality and a bypassing drain was reported thus violating the ZLD condition; and

WHEREAS, in view of Non-Compliance reported by the joint inspection team and in exercise of powers delegated to the Chairman, CPCB under section-5 of the Environment (Protection) Act, 1986 a revised notice was served on 07/12/2016 directing the industries to show cause as to why all three Units should not be closed down until all necessary pollution control measures are planned and implemented so as to comply with the prescribed standards to the satisfaction of CPCB; and

WHEREAS, M/s HIL, Hirakud representing all the three units, replied to CPCB's revised Show-cause notice on 02/01/2017 again providing the facts and explanations against CPCB's inspection observations to show their compliance against the pollution laws; and

WHEREAS, in order to re-verify the facts and compliance as mentioned in the above reply dated 02/01/2017 of M/s HIL HIRAKUD, compliance verification inspections of all three units was again carried out on 01/06/2017 by a Joint Team of Officials from CPCB, RD, Kolkata (Eastern Zone) and Odisha Pollution Control Board (OSPCB) and following observations are made :


- FRP PLANT: The unit has separate ETP and STP with 3 stage RO system and complies with ZLD norms. Underground bypass drain exist but its inlet and outlet are sealed with concrete structure. The outlet pit is completely dry and outlet on the river bank side is permanently sealed. RD - Kolkata, CPCB has recommended for dismantling of underground bypass drain and submission of water balance details.
- CPP: Two outlets which drain directly into Khojur Nallah are closed permanently and treated effluent completely recycled/reused ensuring ZLD. Effluent and emission samples comply with stipulated standards. Online data is not matching with lab results. Ash handling system is adequate. RD-Kolkata recommended for calibration of online system and submission of water balance details.
- SMELTER PLANT: The RO permeate sample is complying with the norms. Stack emission monitoring results showed that the concentration of fluoride from both the stacks i.e. Stack - 3 (FTP-2) and Stack-5 (FTP-4) is 0.47 kg/T of aluminium produced against the consented standard of 0.3 kg/T. Industry is complying with ZLD condition and has adequate storage for hazardous wastes. Online monitoring data is not compatible with manual monitoring data.

NOW, THEREFORE, in view of the above observations and in exercise of the powers delegated to the Chairman, CPCB under section-5 of the Environment (Protection) Act, 1986, notice is hereby served to M/s Hindalco Industries Ltd. , HIRAKUD COMPLEX, HIRAKUD , Dist.-Sambalpur, Odisha to explain the reasons as to why action should not be taken against you for the shortcomings especially wrt emissions of fluoride as observed during inspection & highlighted above.

M/s Hindalco Industries Ltd. , HIRAKUD COMPLEX, HIRAKUD , Dist.-Sambalpur, Odisha, is further directed to comply with the following directions by 30/09/2017:

- (i) The underground drain of FRP unit be dismantled immediately.
- (ii) The online monitoring analysers be calibrated regularly at an interval of 03 months and calibration report be submitted to CPCB .
- (iii) The fluoride balance report of smelter pot room based on pre-baked technology be prepared through NABL/EPA approved laboratory and
- (iv) The water balance report be prepared for all the three units and submitted to CPCB.

The industry shall immediately initiate the action in the matter and submit the action taken report for rectification of the short-falls as highlighted above within 15 days from the date of issue of these directions. Violation of the directions shall attract legal action including prosecution as per the provisions of the National Green Tribunal Act, 2010.


[S.P. S. Parihar]
Chairman
20/09/2017

Copy for kind information / compliance to:

1. The Chairman : with request to follow up.
Odisha State Pollution Control Board
A-118, Nilakanta Nagar, Unit - VIII
Bhubaneswar - 751012
2. The Regional Directorate : with request to follow up.
Central Pollution Control Board
Eastern Zonal Office
502, Southend Conclave, 1582
Rajdanga Main Road, Kolkata-700107.
3. The Additional Secretary (AKM)
Ministry of Environment, Forests & Climate Change
'Indira Paryavaran Bhavan'
Jor Bagh Road
New Delhi - 110 003
4. The Divisional Head, IPC-VI, CPCB-Delhi
5. The Divisional Head, IT division, CPCB-Delhi.



(A. Sudhakar)
Member Secretary