

Letter No.: -HIL/ESR/GP-IV/4 /09-20

Date: 27.09.2019

The Member Secretary,
Chhattisgarh Environment Conservation Board,
Paryawas Bhawan, North Block Sector-19,
Naya Raipur Chhattisgarh - 490099.

Sub.: Submission of Environmental Statement Report for the Financial Year 2018-19 of Gare Palma IV/4 Coal Mine, Banjikhola, Tamnar, Raigarh (C.G.).

- Ref. 1. Consent under section 21 of the Air (Prevention and control of pollution) Act, 1981 no. 7230/TS/CECB/2018, Naya Raipur, Dated: - 16/03/2018.
2. Consent under section 25/26 of the Water (Prevention and control of pollution) Act, 1974 no. 7228/TS/CECB/2018, Naya Raipur, Dated: - 16/03/2018.


Dear Sir,

With reference to subject, please find enclosed the Environmental Statement Report in the prescribed format (Form - V) for the Financial Year 2018 -19 of of **M/s Hindalco Industries Limited**, Gare Palma IV/4, Village - Banjikhola, Bankheta, Tehsil - Tamnar, Dist - Raigarh - 496 107 (C.G.)

Receipt of the statement may kindly be acknowledged please.

Thanking you,

Yours faithfully,
For **Hindalco Industries Limited**,


Dipesh Bhatia
(Vice President - GP Coal Mines)



Encl. : As above

CC To: 1. **The Regional Director**, Ministry of Environment & Forests (MoEF), Regional Office, Western Region, Ground floor, New Secretariat Building, Civil Lines, Nagpur, (MS)

2. **Zonal Officer**, Central Pollution Control Board, Sahkar Bhawan, 3rd Floor, North T.T. Nagar, Bhopal Madhya Pradesh - 462 003.

✓ 3. **Regional Officer**, Chhattisgarh Environment Conservation Board (CECB), T. V. Tower Road, Raigarh (C.G.)

Hindalco Industries Limited

Gare Palma Mines (IV/4 & IV/5), Vill & Po: Milupara , Tehsil: Tamnar Dist: Raigarh- 496107 , Chhattisgarh
T: +91 7762 228212, Website : www.hindalco.com E mail : hindalco@adityabirla.com
Registered Office : Ahura Centre, 1st Floor, B Wing, Mahakali Caves Road Andheri (East) , Mumbai 400093, India
T: + 912266917000 | Fax: + 912266917001
Corporate ID No: L27020MH1958PLC011238



FORM V

(See rule 14 of Environmental Protection Act, 1986)

Environmental Statement for the financial year 1st April -2018 to 31st March 2019.

PART A

(i)	Name and address of the owner/occupier of the industry operation or process.	Sh. Dipesh Bhatia, Hindalco Industries Limited (Gare Palma-IV/4 Coal Mine), Village – Banjikhhol, Bankheta, Tehsil – Tamnar, Dist - Raigarh – 496 107 (C.G.)
(ii)	Industry category Primary – (STC Code) Secondary - (STC Code)	Primary.
(iii)	Production Capacity (Units)	Coal – 1.0 MTPA
(iv)	Year of establishment	Coal Mine transfer to HIL Vesting order no. 104/16/2015/NA dated 23 rd March 2015, the EUP are as follow. 1. CPP (900 MW) , Lapanga, Sambalpur, Odisha 2. CPP (467.5 MW) , Hirakud, Sambalpur, Odisha
(v)	Date of the last environmental statement submitted	21.08.2018 for FY 2017- 18

PART B

(1) Water consumption M³/d : For the Period April' 18 to March 2019

(i)	Process	3984 M ³ /day
(ii)	Cooling	
(iii)	Domestic	40 M ³ /day
	Total	4024 M ³ /day

S. No.	Name of Product	Process water consumption per unit of product output	
		During the Previous financial year	During the current financial year
(1)	Coal	NA	NA

This is a coal mine and there is no processing / cleaning of coal is being done.

(2) Raw material consumption

S. No.	Name of Raw material	Name of product	Consumption of raw material per unit	
			During the Previous financial year	During the current financial year
1.	NA	Coal production for FY 2018 -19 : 0.8383 Million Metric Ton	NA	NA

Industry may use codes in disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw material used.

PART C

Pollution discharged to environment/ unit of output.
(Parameter as specified in the consent issued)

S. No.	Pollution	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
1	Water	No Discharge	No Discharge	<p align="center">No Variation</p> <p>Zero discharge of effluent is maintained at Gare Palma IV/4 Mine. Mine seepage water generated from the underground mine is treated at 03 Nos. of settling pond with chemical dosing arrangement system and same arrangement has been provided for Bankheta open cast mines also.</p> <p>Also installed 01 Nos. of Drinking Water treatment plant and supplying the water at Mines for domestic purpose, remaining water is being used by the neighbors for irrigation purpose.</p>
2	Air (Ambient Air)	The ambient air quality in & around the mining lease area conforms to the standard prescribed by CPCB as per NAAQS – 2009. As per the monitoring reports submitted by CECB approved agency, the concentration of ambient air quality parameters varies in the following ranges throughout the year conforming the standard		
	Parameters	Pollutant Concentration	Standards (NAAQS - 2009)	Variation from prescribed standards
2(i)	PM10	56 - 75	100	No variation
2(ii)	PM2.5	28 - 36	60	No variation
2(iii)	SO2	18 - 25	80	No variation
2(iv)	NOx	22 - 33	80	No variation

PART D**Hazardous Wastes**

(As specified under Hazardous Wastes (Management and Handling Rules 1989))

S. No.	Hazardous Wastes	Total Quantity (kg)	
		During the previous financial year	During the current financial year
a	From process	0.4 KL, Used Oil (Category - 5.1)	0.76 KL, Used Oil (Category - 5.1)
b	From pollution control facilities	Nil	Nil
c	Quantity recycled or re - utilized	Hazardous Waste generated at mine site is disposed off through CECB authorized recycler following due standard practices. Recycler : M/s Supreme Petro Synth Specialities, Bhilai, Durg Reg. No. : 30/HSMD/HD/CECB/Raipur Valid up to : 12/03/2020	

PART E**Solid Wastes.**

S. No.	Solid Waste	Total quantity	
		Previous financial Year	Current financial year
A	From process	Over burden- 1.417 MM ³	Over burden- 3.012 MM ³
B	From pollution control facility	Nil	Nil
C (i)	Quantity recycled or re- utilizes within the unit	1.417 MM ³ (Concurrent backfilling of OB is under progress after backfilling biological reclamation is being done)	3.012 MM ³ (Concurrent backfilling of OB is under progress after backfilling biological reclamation is being done)
(ii)	Sold	NA	NA
(iii)	Disposed	NA	NA

PART F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes	Characteristics of Used Oil (HW) A.Physical 1. State - Liquid. 2. Density gm/l - 0.871 3. Flash Point °C - 68 B Chemical 1. Sulphur (%by mass) - 2.38 2. Ash (%by mass) - 0.112 Used Oil (HW Cat 5.1) which is generated from the HEMM/ equipment during scheduled maintenance is
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	collected and stored securely in MS barrels after due segregation and kept over an impervious floor under specifically designed HW storage shed.
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PART G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production	We have adopted eco-friendly technologies in mining operation and measures are taken as, construction of ETPs, Fixed type sprinklers, sound enclosure, reclamation of OB dump etc.
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PART H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.	For strengthening of environmental protection measures like water pollution control measure, water sprinkling, plantation etc. The expenditure details enclosed as <u>annexure-1</u> .
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PART I

Any other particulars for improving the quality of the environment	<p>Company have planted about 74500 saplings in mines area details enclosed as Annexure - 2. Company have further plan for phase wise plantation in available open place in next coming years. Company is providing safety training to all working staff before assignment of job in V.T. Center that is established by the company. Personal Protective equipment's- Like Nose mask, Helmet. Earmuff etc. have been provided to all workers that are working in mines.</p> <p>To avoid fugitive dust emission water sprinkling on road is being done. Company have provided noise protective equipment – earplug & ear muff for all worker.</p>
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Annexure – 1.

Environment Expenditure 2018-19

Gare Palma IV/4

Sl.No	Description	Order No.	Order Date	Cost Center Code	Exp. Amount
A. Water Management					
1	Chemical	N/PO/SPR/1819/0179	24.10.2018		₹ 199,520.00
2	Maintenance	N/PO/SPR/1819/0057	04.06.2018		₹ 47,200.00
3	Reverse Osmosis System	N/PO/NBN/1819/0013	12.05.2018	A11CX046	₹ 446,878.00
4	Water Flow Meter	N/PO/NBN/1819/0006	02.05.2018	A11CX047	₹ 48,000.00
5	Automatic Water Level Recorder	N/PO/NBN/1819/0018	22.06.2018	A13CX052	₹ 184,212.00
		N/PO/SRV/1819/0047	22.06.2018	A13CX052	₹ 18,400.00
6	Water Cess			A5340078	₹ 14,856.00
					₹ 959,066.00
B. Air Management					
1	Environmental Monitoring	N/PO/SRV/1718/0115	02.08.2017	A5440002	₹ 186,375.00
		N/PO/SRV/1819/0085	07.08.2018	A5440002	₹ 287,770.00
2	Calibration	N/PO/SRV/1819/0068	03.07.2018		₹ 18,600.00
3	Dust supression	N/PO/SRV/1819/0134	20.12.2018	A5628S01	₹ 105,227.00
		N/PO/SRV/1819/0070	04.07.2018	A5350044	₹ 344,763.00
		N/PO/SRV/1819/0117	13.11.2018	A5628S01	₹ 319,906.00
					₹ 1,262,641.00
C. Green belt Maintenance					
1	PLANTATION	N/PO/SRV/1819/0088	17.08.2018	A5340076	₹ 236,000.00
2	Plant Safety Forthnight	N/PO/SPR/1819/0207	05.12.2018		₹ 27,000.00
3	Grass	N/PO/SPR/1819/0005	11.04.2018		₹ 27,750.00
					₹ 290,750.00
Grand Total (A+B+C)					₹ 2,512,457.00

Year wise Plantation Detail for Gare-Palma Coal Mines

(Gare Palma IV/4)

Sl. No.	Year	Plantation area in Acre	Numbers of saplings planted. (Approx.)	Nos. of saplings
1	Upto 2015	Coal mine lease area/OB Dump.	53000	<i>Mango, guava, Aola, Neem, Pipal, Ficus sp., Teak, Shivan/Ghamar, Sisham, Sirus, Peltafarm, Nilgiri, Accasis, Casia Samia, Gulmohar etc.</i>
2	2016	Coal mine lease area/OB Dump.	6500	
3	2017	Coal mine lease area/OB Dump.	10000	
4	2018	Coal mine lease area/OB Dump.	5000	
Total			74500	