



Letter No.: -HIL/ESR/GP-IV/5 /09-19

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/5 underground Coal Mine, Milupara, Tamnar, Raigarh (C.G.).

- Ref. 1. Consent under section 21 of the Air (Prevention and control of pollution) Act, 1981 no. 7359/TS/CECB/2018, Naya Raipur, Dated: - 21/03/2018.
2. Consent under section 25/26 of the Water (Prevention and control of pollution) Act, 1974 no. 7357/TS/CECB/2018, Naya Raipur, Dated: - 21/03/2018.

Respected 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 **M/s Hindalco Industries Limited**, Gare Palma IV/5, Village – Milupara, Kondkel, 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, (M.S.)

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
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Registered Office : Ahura Centre, 1st Floor, B Wing, Mahakali Caves Road Andheri (East) , Mumbai 400093, India
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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/5 U/g Coal Mine) Village – Milupara, Kondkel, 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. 104/13/2015/NA dated 23rd 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

(i)	Process	7863 M ³ /day
(ii)	Cooling	
(iii)	Domestic	48 M ³ /day
	Total	7911 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 : 0.5372 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/5 Mine. Provided 05 Nos. of settling pond & 02 nos of ETP (Capacity 200 m3 / Hr Each) along with Lamella clarifier with chemical dosing arrangement for the treatment of mine seepage water. Also installed 02 Nos. of Drinking water treatment plant and supplying the water at mines & Kondkel Village for domestic purpose. remaining water is being used by the neighbors for irrigation purpose.</p>
2	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	54 – 70	100	No variation
2(ii)	PM2.5	26 – 36	60	No variation
2(iii)	SO2	15 – 22	80	No variation
2(iv)	NOx	22 – 30	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	1.43 KL, Used Oil (Category - 5.1)	0.81 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	NA	NA
B	From pollution control facility	NA	NA
C	Quantity recycled or re- utilizes within the		
(i)	unit	NA	NA
(ii)	Sold	NA	NA
(iii)	Disposed	NA	NA

Gare Palma IV/5 is underground coal mine producing is ROM coal. There is no processing / cleaning is being done. Thus no solid waste generated.

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
	A.Physical 1. State - Liquid. 2. Density gm/l - 0.872 3. Flash Point °C - 68.5 B Chemical 1. Sulphur (%by mass) - 2.54 2. Ash (%by mass) - 0.115 Used Oil (HW Cat 5.1) which is generated from the HEMM/ equipment during scheduled maintenance is 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 42000 saplings in mines area details are enclosed as <u>Annexure-2</u>. Company have further plan for phase wise plantation in available open place in next coming years. Company have providing safety training to all working staff in V.T. Center that is established by the company. Personal Protective equipment's like nose mask, helmet, earmuff etc. to all workers that are working in mines.</p> <p>Company have installed enclosures in all running DG Set to avoid noise pollution. To avoid fugitive dust emission water sprinkling on road is being done. Company have provided noise protective equipments – earplug & ear muff for all worker.</p>
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Annexure – 1

Environment Expenditure 2018-19					
Gare Palma IV/5					
Sl.No	Description	Order No.	Order Date	Cost Center Code	Final as per A/c
A. Water Management					
1	Chemical				
		M/PO/SPR/1819/0013	27.04.2018		₹ 141,000.00
		M/PO/SPR/1819/0038	16.05.2018		₹ 19,150.00
	Sub-total (1)				₹ 160,150.00
2	Maintenance				
		M/PO/SPR/1819/0201	15.09.2018		₹ 35,750.00
		M/PO/SPR/1819/0439	23.02.2019		₹ 28,043.00
		M/PO/SPR/1819/0229	28.09.2018		₹ 86,400.00
		M/PO/SPR/1819/0244	10.10.2018		₹ 47,200.00
		M/PO/SPR/1819/0149	01.08.2018		₹ 25,000.00
		M/PO/SPR/1819/0064	04.06.2018		₹ 59,000.00
		M/PO/SPR/1819/0405	08.02.2019		₹ 2,550.00
	Sub-total (2)				₹ 283,943.00
3	ULTRASONIC FLOWMETER	M/PO/NBN/1819/0004	05-May-18	S13CX139	₹ 198,000.00
4	50 KLD STP	M/PO/NBN/1718/0081	04-Apr-18	U13CX043	₹ 1,100,000.00
5	Automatic Water Level Recorder	M/PR/NBN/1819/0009	22-Jun-18	S13CX145	₹ 184,212.00
		M/PR/SRV/1819/0055	22-Jun-18	S13CX145	₹ 18,400.00
6	Canal Cleaning	M/PO/SRV/1819/0003	20.04.2018	S5340052	₹ 15,560.00
		M/PO/SRV/1819/0074	19.07.2018	S5340052	₹ 159,158.00
7	Water Cess			MS5340078	₹ 19,809.00
	Sub-total (3 to 7)				1695139.00
					₹ 2,139,232.00
B. Air Management					
1	Environmental Monitoring	M/PO/SRV/1819/0084	07.08.2018	S5440002	₹ 296,040.00
2		M/PO/SRV/1718/0125	02.08.2017		₹ 171,110.00
3	Calibration	M/PO/SRV/1819/0068	04.07.2018		₹ 9,900.00
3	Dust Supression	M/PO/SPR/1819/0008	13.04.2018		₹ 86,000.00
					563050
C. Green belt Maintenance					
1	PLANTATION	M/PO/SRV/1819/0086	31.08.2017	S5340076	₹ 200,000.00
3	Herbicide	M/PO/SPR/1819/0153	02.08.2018		₹ 6,925.00
4	Plant safety fortnight	M/PO/SPR/1819/0312	05.12.2018		₹ 33,331.00
5	Pipes	M/PO/SPR/1819/0323	11.12.2018		₹ 14,280.00
					₹ 254,536.00
Grand Total (A+B+C)					₹ 2,956,818.00

Annexure – 2

Year wise Plantation Detail for Gare-Palma Coal Mines

(Gare Palma IV/5)

Sl. No.	Year	Plantation area in Acre	Numbers of saplings planted. (Approx.)	Nos. of saplings
1	Up to 2015	Coal mine lease area.	30000	<i>Neem, Mahua, , Jamun, Mango, Guava, Imli, Drumstick, Teak, Shivan / Ghamar, Sisham, Sirus, Bamboo, Peltafarm, Nilgiri etc.</i>
2	2016	Coal mine lease area	2000	
3	2017	Coal mine lease area	5000	
4	2018	Coal mine lease area	5000	
Total			42000	