Annexure-C

Hindalco Industries Limited
Unit: Birla Copper, Dahej
Status of compliance to conditions of Environmental Clearance No. J- 11011/85/2002-IA II (I) dated 10th Feb-2004
(Six monthly compliance report from October-23 to March-2024)

Sub.: Expansion of Copper Smelter and setting up of Zinc smelter plant by M/s Hindalco Industries Limited at Village Lakhigam and Dahej, Tehsil Vagra, District Bharuch in Gujarat- Environmental Clearance reg.

Expansion proposal is for increasing capacity of copper smelter plant from 1.50 lakh TPA to 2.50 lakh TPA.
and setting up of Zinc Smelter Plant of 1.0 lakh TPA.

(A) SPECIFIC CONDITIONS:

Sr.No.	Details of condition	Compliance status
01	All the conditions stipulated by the Ministry while according to environmental clearance to the existing project vide its letter no. J-11011/81/2000-IA. II(I) dated 8th January 2002 should be strictly implemented.	There are seven specific condition and thirteen general conditions stipulated in environmental clearance issued by the Ministry Vide Letter No. J-11011/81/2000-IA. II (I) dated 8th January 2002 the total conditions have been complied with. The compliance report is attached as Annexure- (B)
02	As reflected in the EIA/EMP effluent generation should not exceed 153 m3/hr. Capacity of the existing ETP should be further augmented from 160m3/hr to 200m3/hr. company should make efforts to achieve zero discharge, till such time, company should utilize the treated effluent to the maximum extent possible for green belt development. However, additional treated effluent or during the rainy season, effluent could be discharged into the deep sea through HDPE pipeline at a point through multiple diffuser system as recommended by the NIO. The treated effluent should conform to the standards including Bioassay test as per the GPCB. The monitoring report should be submitted to the Ministry regularly.	The effluent generation is 110 m3 /hr. The Capacity of ETP is increased from 160 m3/hr. to 320 m3/hr. The Company has maintained zero liquid effluent discharge except RO reject and storm water in rainy season which is discharged into deep sea through HDPE pipeline at a point through multiple diffuser system as suggested by NIO. The total treated water is recycled in the process and effluent quality is maintained as per prescribed standard including bioassay test as per the GPCB. The Monitoring report is submitted regularly. The monitoring reports are submitted to the Ministry regularly. The condition is complied with.
03	Fugitive emission of dust/acid mist vapors, fumes and SO2 should be controlled, and work environment monitored for prevailing contaminants regularly. Fugitive dust emission in the zinc concentrates handling area and at various transfer points should be minimized. The company should install bag filter in the calcine grinding, melting, and casting sections of zinc smelter plant for recovery of dust & should be recycled in the process.	All possible measures are adopted to mitigate the fugitive emission, SO2, fumes in the work environment. The prevailing contaminants are monitored regularly. Adequate capacity of bag filters is attached to all transfer points to mitigate the fugitive emission. As such there is no emission of HC from our process & operation. However, SO2 emission is being monitored periodically, and data are maintained.

04	SO2 containing off-gases from smelting, setting and converting furnaces in copper and zinc smelter plants should be cleaned and converted to Sulphuric acid by Double Conversion Double Absorption (DCDA) Process technology for maximum conversion of SO2 to H2SO4. Industry should meet SO2 emission limit of 2kg/ton of H2SO4 produced and emission limit of 50mg/Nm3 of acid mist. Company should install fluoride scrubbing system for phosphoric acid plant so that fluoride concentration should conform to the prescribed standards of 25mg/Nm3.	SO2 containing off-gas from smelting, converting furnace is cleaned and converted into sulfuric acid by double conversion and double absorption process technology at scrubber. The company has complied the SO2 emission as well as acid mist. The Observation is well within the prescribed standard. The company has installed fluoride scrubbing system for phosphoric acid plant. The concentration of fluoride observed is well within the limit. Zinc Smelter plant was not commissioned. Au smelt plant & SAP-II plant has been dismantled in 2017 & 2019 respectively. CPP-II and CCR-II plants has been dismantled in 2021. Phosphoric acid plant and Di ammonium phosphate plant is being dismantled in Year 2024. The observed values of parameters monitored are well within limits, Hence condition is complied with

Stack analysis report Oct-23 to March-2024		SO2		NOx		PM	
Sr No	Stack list at Birla Copper	GPCB Norms	Observed	GPCB Norms	Observed	GPCB Norms	Observed
			Value		Value		value
1	Dore furnace of PMR plant	100 ppm	71.46	50 ppm	29.13	150 mg/Nm3	77.06
2	Sulphuric acid Preheater I	100 ppm	75.91	50 ppm	29.2	150 mg/Nm3	90.50
3	CPP-I (CFBC Boiler) 35 MW	600 mg/Nm3	372.26	600 mg/Nm3	197.7	100 mg/Nm3	82.47
4	Shaft furnace of CC Rod plant I	100 ppm	ND	50 ppm	ND	150 mg/Nm3	86.13
5	Shaft furnace of CC Rod plant-II	-	Plant s/d	--	NA	-	Plant s/d
6	Sulphuric acid Pre-heater-III	100 ppm	62.97	50 ppm	27.62	150 mg/Nm3	78.49
7	CPP-II (CFBC Boiler) 15.35 MW	600 mg/Nm3	Plant s/d	600 mg/Nm3	Plant s/d	150 mg/Nm3	Plant s/d
8	CPP-III (CFBC Boiler) 60 MW	600 mg/Nm3	388.26	300 mg/Nm3	183.27	50 mg/Nm3	31.06
9	Shaft furnace of CC Rod plant-III	100 ppm	ND	50 ppm	ND	150 mg/Nm3	80.68
10	Anode Casting of Smelter-I	40 mg/Nm3	ND	25 mg/Nm3	ND	150 mg/Nm3	91.54
11	Main stack Sec. Gas Scrubber of Smelter-I	40 mg/Nm3	30.48	NA	NA	NA	NA

12	Main stack Slag Cleaning Furnace of Smelter-I	40 mg/Nm3	30.48	NA	NA	150 mg/Nm3	84.74
13	Main Stack Sulphuric Acid plant - I	2.0 kg/T of 100 % H2SO4	1.07 Kg/T	Acid Mist 25 mg/Nm3	ND	NA	NA
14	Cathode Stripping m/c of Ref-I	40 mg/Nm3	ND	NA	NA	NA	NA
15	Anode scrap Washing m/c of Ref-I	40 mg/Nm3	ND	NA	NA	NA	NA
16	Liberator stack of Refinery-I	40 mg/Nm3	ND	Acid Mist 25 mg/Nm3	ND	NA	NA
17	Slag granulation of Smelter-I	40 mg/Nm3	ND	NA	NA	150 mg/Nm3	79.38
18	Steam Dryer of Copper Conc. of Sm.-I	40 mg/Nm3	ND	NA	NA	150 mg/Nm3	83.74
19	Centralized Scrubbing System Sm.-III	40 mg/Nm3	29.66	NA	NA	150 mg/Nm3	83.21
20	Sulphuric Acid plant – III (TGS Scrubber)	1.0 kg/T of 100 % H2SO4	0.21 Kg/T	Acid Mist 25 mg/Nm3	ND	NA	NA
21	Cathode Stripping m/c - Ref-III	40 mg/Nm3	ND	NA	NA	NA	NA
22	Liberator stack of Refinery-III	40 mg/Nm3	Nil	Acid Mist 25 mg/Nm3	NA	NA	NA
23	PMR Phase -III	40 mg/Nm3	28.69	25 mg/Nm3	17.71	150 mg/Nm3	82.13
DAP / PAP Fertilizer		F Norms	F	NH3 Norms	NH3	PM Norms	PM
DAP		6.0 mg/Nm3	Plant s/d	175 mg/Nm3	Plant s/d	150 mg/Nm3	Plant s/d
Reactor (Phosphoric Acid plant)		6.0 mg/Nm3	Plant s/d	NA	NA	NA	NA

05	The industry should develop a dedicated new secured landfill facility for jarosite from the zinc smelter plant as per the CPCB guidelines besides the land fill facility already developed for disposal of solid waste from copper smelter plant. Authorization under the hazardous wastes (Management & Handling) rules 2000, from the GPCB should be obtained. Ground water quality in the vicinity of the landfill should be regularly monitored and report submitted to the CPCB/GPCB/Ministry once in six months.	Zinc Smelter plant was not commissioned hence not relevant for zinc smelter. However, secured land fill facility is already developed as per CPCB guidelines for disposal of waste from copper smelting plant. The required Authorization under the hazardous wastes (Management & Handling) rules 2000, from the GPCB is obtained. The Ground water quality is monitored and report of the same is submitted to GPCB and Ministry periodically. The condition is complied with
06	Green belt of adequate width and density in 25 ha. Of project area in addition to the 62 ha. Of area already afforested should be provided to mitigate the effects of fugitive emission all around	The project is developed within the existing copper complex area where green belt is developed in 133.93 Ha. The project area is already taken care of to mitigate the effect of fugitive emission all around the plant. The development

	the plant. The addition land required for green belt development should be procured and progress made in this regard should be reported to this Ministry within three months The development of green belt along the periphery of plant and township should be anomy based as per CPCB guidelines.	of green belt along the boundary as well as the in open space available in the plant area is done; the plantation is also done all along the road as per the CPCB guidelines. The condition is complied with
07	The solid hazardous waste/sludge generated from the process should be disposed off in a landfill. The landfill should be constructed at a safe height from Gr water. The design of the landfill should be approved by SPCB as per Hazardous Wastes (M&H) Rules 06-01-2003.	The solid hazardous waste/sludge generated from the process is disposed in a secured landfill. The secured landfill is constructed as per CPCB guideline which is approved by GPCB. The safe height from Gr water, designed of the land fill is approved by GPCB as per Hazardous Wastes (M&H) Rules 06-01-2003.The condition is complied with

(B) GENERAL CONDITIONS:

01	The project authorities must strictly adhere to the stipulations made by the Gujarat State Pollution Control Board.	The company is fully committed to adhere to the stipulated conditions made by the GPCB. The condition is complied with
02	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference should be made to the ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	The company has obtained prior environment clearance before expansion or modification in the plant. In case of any deviations or alterations in the project proposal, the company has approached to the Ministry and accordingly, Ministry has accessed the adequacy of conditions imposed for environment protection measures. The condition is complied with
03	The project authorities must strictly comply with the rules under Manufacture, Storage and import of hazardous chemicals Rules, 1989 as amended in October 1994 and January 2000. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained.	The company has already obtained the permission from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire safety Inspectorate for Manufacture, storage and import of hazardous chemicals rules, 1989 as amended in October 1994 and January 2000. The permission obtained from Factories Inspectorate is attached as Annexure-V. The Rules and regulations under Manufacture, storage and

<table>
<tr><td></td><td></td><td>import of hazardous chemicals rules, 1989 is complied with. The necessary permission is attached as Annexure-V. The company has already obtained necessary licenses from Controller of Explosives, the necessary permission is attached as Annexure-VI
Boiler inspectorate permission is attached as Annexure-VII
The condition is complied with</td></tr>
<tr><td>04</td><td>The project authorities must strictly comply with the rules with regard to hazardous wastes in accordance with the hazardous Wastes (M & H) Rules 1989 as amended in Oct-94 and in Jan, 00. Authorization from the SPCB must be obtained.</td><td>The company has strictly complied with the rules and regulations about handling and disposal of Hazardous wastes in accordance with the Hazardous wastes (management and Handling) Rules, 1989 as amended in January 1994 and in January; 2000.The company has already obtained authorization for collections/treatment/storage/disposal of hazardous waste. Under the Hazardous Wastes (Management and Handling) Rules, 2003 vide CCA No. AWH-108216 dated 30-05-2020 which is valid up to 02-03-2026.The company has followed the stipulated rule; hence condition is complied with</td></tr>
<tr><td>05</td><td>The overall noise levels in and around the plant area should be kept well within the standard (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standard prescribed under EPA rules 1989.</td><td>The overall noise levels in and around the plant area is 62.5 dB(A) in daytime and 61.0 dB(A) in nighttime which is well within the standards (75 dB(A) in daytime and 70 dB(A) in nighttime) The ambient noise level measured are as under:
<table>
<tr><td>Noise Measurement (Oct-23 to March-24)</td><td>Day time</td><td>Nighttime</td></tr>
<tr><td>Location</td><td>Noise Level in dB(A)</td><td>Noise Level in dB(A)</td></tr>
<tr><td>Near Township opp. to Arogya</td><td>61.2</td><td>59.2</td></tr>
<tr><td>Near 16 ha opp. to Smelter-III</td><td>63.2</td><td>62.4</td></tr>
<tr><td>Near YMA Hostel</td><td>60.7</td><td>59.3</td></tr>
<tr><td>Near Jetty Platform</td><td>65.0</td><td>63.2</td></tr>
</table>
Monitored ambient noise levels(dB) from Oct-23 to March-2024 (Average)
<table>
<tr><td></td><td></td><td>Day time</td><td>Nighttime</td></tr>
<tr><td>Sr No.</td><td>Location</td><td>Noise Level in dB(A)</td><td>Noise Level in dB(A)</td></tr>
<tr><td>1</td><td>Near Smelter-I</td><td>65.2</td><td>62.5</td></tr>
<tr><td>2</td><td>Near SAP-I</td><td>63.8</td><td>62.5</td></tr>
<tr><td>3</td><td>Near ETP Plant</td><td>62.6</td><td>61.0</td></tr>
<tr><td>4</td><td>Near Captive Power Plant-I</td><td>66.8</td><td>64.2</td></tr>
<tr><td>5</td><td>Near DAP</td><td>63.4</td><td>61.8</td></tr>
<tr><td>6</td><td>Near Smelter-III</td><td>65.5</td><td>63.3</td></tr>
</table>
</td></tr>
</table>

7	Near Guest house in T/ship	60.3	59.0
8	Near Central Park in T/ship	60.1	58.6
9	Near YMA Hostel	60.7	59.3
10	Near Gypsum yard (boundary wall)	62.5	61.0
11	Near Coal yard	62.8	61.0
12	Near Jetty Platform	65.1	63.2

06	Occupational health surveillance programmes should be undertaken as regular exercise for all the employees, specifically for those engaged in handling hazardous substances. The first aid facilities in the occupational health center should be strengthened and the medical records of each employee should be maintained separately.	The medical examination is carried out of the workers on regular basis and the records are maintained as per the factory act. The copy of records is attached Annexure-I. The medical examination is carried out regularly, hence condition is complied with.
07	The project proponent should have a scheme for social upliftment in the surrounding villages with reference to contribution.	The company is committed to undertake the activities to uplift the socioeconomic status of surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc. The public hearing of this project was exempted by MoEF, New Delhi the company has well defined CSR policy, the activities conducted in surrounding villages and beneficiaries are as under: Hence condition is complied with.
08	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA and risk analysis report.	The company has undertaken several measures to protect the environment and safeguard the recommendations already made in EIA/EMP report. The protection measure taken is attached as Annexure-II. The condition is complied with.

Activities Undertaken	No. of Activities	Beneficiaries	No. of Villages Benefited
Education	7	849	2
Health	141	28810	16
Sustainable livelihood	207	5475	21
Social	2	10042	15
Others	4	331	9
Total	361	45507	63

<table>
<tr>
<td>09</td>
<td>A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the Environmental Management and monitoring functions.</td>
<td>A separate Environmental Management Cell equipped with full-fledged laboratory facilities is set up to carry out the Environmental Management and monitoring functions:
List of equipment and consumable available in the laboratory facilities is as under:
<table>
<tr><td>CAAQMS (04)</td><td>OCEMS (35)</td></tr>
<tr><td>Atomic Absorption Spectrophotometer</td><td>Weather station</td></tr>
<tr><td>PM2.5, PM10 Combo</td><td>Stack Monitoring Kit (1)</td></tr>
<tr><td>Noise Level monitors (02)</td><td>Handheld SO2, NH3, HF analyzer</td></tr>
<tr><td>Multi gas Analyzer (SO2, NOx, CO2 , HC, O2, and CO)</td><td>Ion selected Fluoride analyzers</td></tr>
<tr><td>Spectrophotometer (visible range)</td><td>BOD incubator</td></tr>
<tr><td>COD reflux set up</td><td>Single pan balance</td></tr>
<tr><td>Relevant chemicals as per IS 5182</td><td>Hot Air Oven</td></tr>
<tr><td>Stopwatch</td><td>Thermometer</td></tr>
<tr><td>PH Meter</td><td>Titration set</td></tr>
</table>
The condition is complied with.
ENVIRONMENTAL MANAGEMENT CELL as under</td>
</tr>
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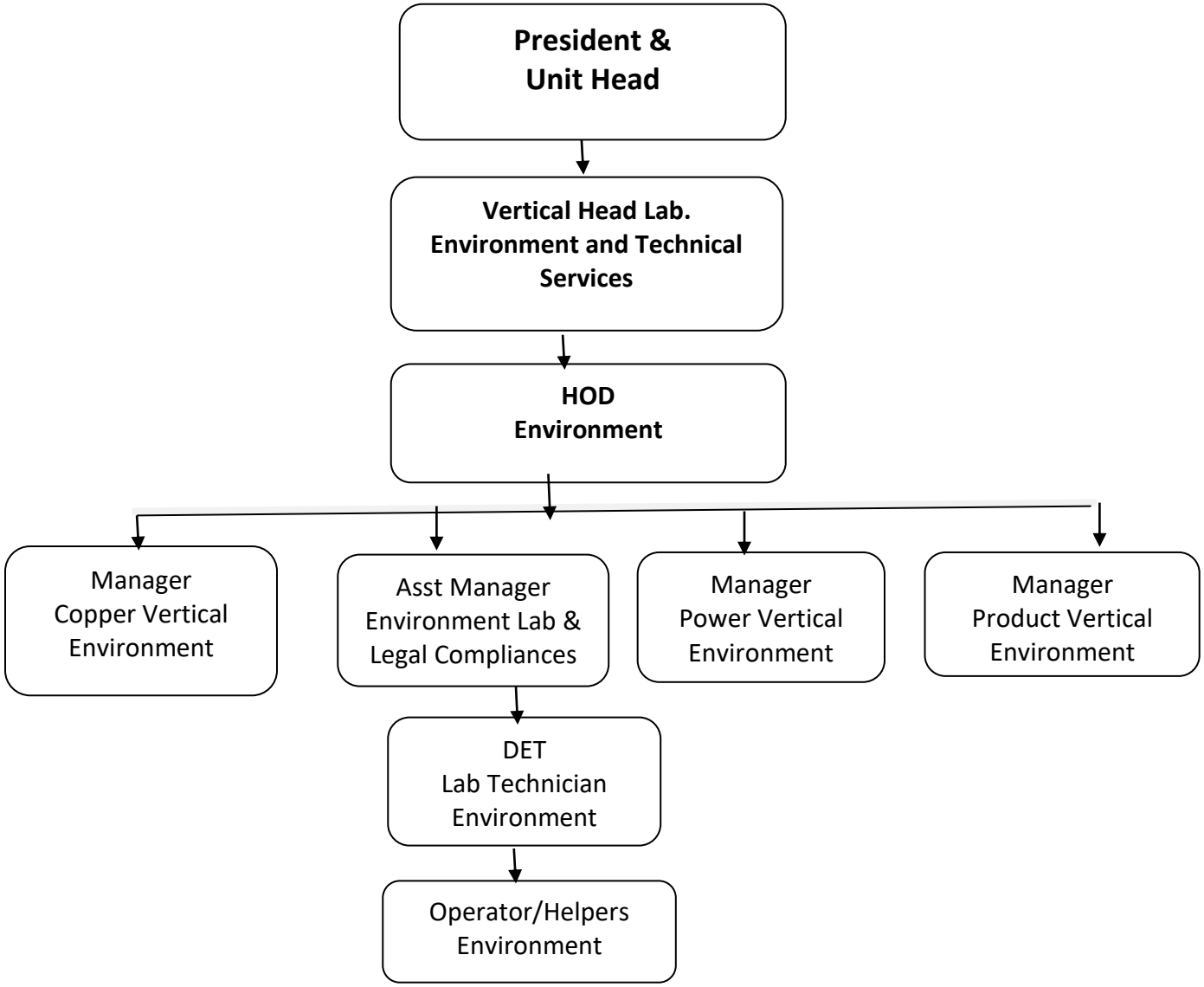
ENVIRONMENTAL MANAGEMENT CELL



10	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the MoEF as well as the State Government The funds so provided should not be diverted for any other purpose.	The company has incurred an amount of Rs. 301.37 crores to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government. The funds earmarked were used for environmental protection measures and not diverted for any other purposes. The Pollution control equipment's are installed and working efficiently, adequate measures are taken. The details of amount incurred are as under:

Capital Cost for Environmental Control Measures

S. No.	Item	Total (Lacs)
1	Dryer bag filer & de dusting system	669
2	Alkali Scrubber Smelter-1	8500
3	Water Cool hood Smelter-1 Converter 1,2 &3	1770
4	Ventilation hood from S & C furnace & bag house	150
5	ESP's of smelter-III	518
6	ESP's of CPP	400
7	Alkali Scrubber of Smelter –III	694
8	Effluent Treatment –II	1000
9	Sewage Treatment Plant-II	100
10	Sulfuric Acid Plant –III	8595
11	Tail Gas Scrubber SAP-III	3466.69
12	SLF for ETP waste	700
13	PG, slag & Fly ash yard- for Phase-III	2000
14	Bag filters for CHP CPP-III and ash management	800.38
15	Liberator scrubber	141
16	PMR plant Bag filter	50
17	Fluorine scrubbing system in PAP-III	203.08
18	Scrubbing system for DAP-III plant	300
19	Green belt development	600
20	Tertiary Water Recycling Unit	6754
21	Wind fencing for coal yard	1395
	Total	38806(388.06 crores)

11	A six-monthly compliance status report should be submitted to monitoring agencies.	The six-monthly compliance status reports are submitted regularly. The copy of acknowledgement is attached as under: The environmental monitoring report is sent regularly to government agencies. Hence condition is complied.
12	The project proponent should inform the public that the project has been accorded environmental clearance by the Ministry. This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region and a copy of the same should be forwarded to the regional office.	The company has published the information regarding obtaining the environment clearance for the aforesaid project in two daily newspapers i.e. Times of India dtd.21.02.2004 and Gujarat Samachar dtd.20.02.2004. A copy of the above letter and a copy of each advertisement was submitted to MoEF, New Delhi vide letter No. IGCL/TIC/01 dated 24.02.2004. The condition is complied with
13	The project Authorities should inform the Regional Office as well as the ministry, the date of financial closure, approval and the date of commencing land development work, if any.	The company has informed the Regional Office as well as the Ministry, the date of financial closure and final approval of the project and commencing the land development work. The condition is complied with.

Sr No	Description	Status
1	The project authorities must strictly adhere to the stipulations made by the Gujarat State Pollution Control Board.	The company is fully committed to adhere to the stipulated conditions made by the GPCB. The condition is complied with
2	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	The company has obtained prior environment clearance before expansion or modification in the plant. No deviations or alterations in the project proposal is carried out.
3	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October 1994 and January 2000. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained. Rules and regulations under Manufacture, storage and import of hazardous chemicals rules, 1989 as amended in October 1994 and 2000 are being complied by us. Necessary licenses from Controller of Explosives, Boiler inspectorate and Factories Inspectorate have been obtained as per requirement.	The company has already obtained the permission from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire safety Inspectorate for Manufacture, storage and import of hazardous chemicals rules, 1989 as amended in October 1994 and January 2000. The permission obtained from Factories Inspectorate is attached as Annexure-V The Rules and regulations under Manufacture, storage and import of hazardous chemicals rules, 1989 is complied with. The necessary permission is attached as Annexure-V The company has already obtained necessary licenses from Controller of Explosives, the necessary permission is attached as Annexure-VI Boiler inspectorate permission is attached as Annexure-VII The condition is complied with
4	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collections/ treatment/ storage/disposal of hazardous wastes.	The company has already obtained authorization under the Hazardous Wastes (Management and Handling) Rules, 2003. CCA No. AWH-108216 dated 30-05-2020 which is valid up to 02-03-2026. The condition is complied with.
5	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime)	The overall noise levels in and around the plant area is 63.20 dB(A) in daytime and 61.40 dB(A) in nighttime which is well within the standard. 75 dB(A) in daytime and 70 dB(A) in nighttime. The ambient noise level measured are as under: The condition is complied with

Monitored ambient noise levels(dB) from Oct-23 to Mar-2024 (Average)			
		Day time	Nighttime
Sr No.	Location	Noise Level in dB(A)	Noise Level in dB(A)
1	Near Smelter-I	65.2	62.5
2	Near SAP-I	63.8	62.5
3	Near ETP Plant	62.6	61.0
4	Near Captive Power Plant-1	66.8	64.2
5	Near DAP	63.4	61.8
6	Near Smelter-III	65.5	63.3
7	Near Guest house in T/ship	60.3	59.0
8	Near Central Park in T/ship	60.1	58.6
9	Near YMA Hostel	60.7	59.3
10	Near Gypsum yard (boundary wall)	62.5	61.0
11	Near Coal yard	62.8	61.0
12	Near Jetty Platform	65.1	63.2

6	Occupational health surveillance programmes should be undertaken as regular exercise for all the employees, specifically for those engaged in handling hazardous substances. The first aid facilities in the occupational health center should be strengthened and the medical records of each employee should be maintained separately.	The occupational health surveillance of the workers is carried out by medical examination on regular basis and the records are maintained as per the factory act. The copy of records is attached Annexure-I The condition is complied with.
7.	The project proponent should have a scheme for social up liftment in the surrounding villages with reference to contribution in road construction, education of Children, festivals, health centers, sanitation facilities, drinking water supply, community awareness and employment to local people whenever and wherever possible both for technical and non-technical jobs	The company is committed to undertake the activities to uplift the socioeconomic status of surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc. The activities conducted in surrounding villages and beneficiaries are as under: The condition is complied with.

Activities Undertaken	No. of Activities	Beneficiaries	No. of Villages Benefited
Education	7	849	2
Health	141	28810	16
Sustainable livelihood	207	5475	21
Social	2	10042	15
Others	4	331	9
Total	361	45507	63

8	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA and Risk analysis report.	The company has taken several environmental protection measures and safeguards recommended in the EIA and risk analysis report. The majors taken and risk analysis is attached as Annexure-II
9	A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the Environmental Management and monitoring functions.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities is set up to carry out the environmental Management and monitoring functions. A full-fledged separate Environmental Laboratory is set up and equipped with all necessary instruments/ equipment's. The following equipment and consumable are available in the laboratory: CAAQMS (04) / OCEMS (35) Atomic Absorption Spectrophotometer / Weather station PM2.5, PM10 Combo / Stack Monitoring Kit (1) Noise Level monitors (02) / Handheld SO2, NH3, HF analyzer Multi gas Analyzer (SO2, NOx, CO2, HC, O2, and CO) / Ion selected Fluoride analyzers Spectrophotometer (visible range) / BOD incubator COD reflux set up / Single pan balance Relevant chemicals as per IS 5182 / Hot Air Oven Stopwatch / Thermometer PH Meter / Titration set The condition is complied with
10	The project authorities shall earmark an amount of Rs. 162.65 cores (as mentioned in question no. xix of questionnaire) to	The company has incurred an amount of Rs. 301.37 crores to implement the conditions stipulated by the Ministry of Environment & Forests as well as the

	implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose. The funds already were used for environmental protection measures during the plant expansion and not diverted for any other purposes.	State Government. The details of amount incurred is as under: The funds earmarked were used for environmental protection measures and not diverted for any other purposes. The condition is complied with

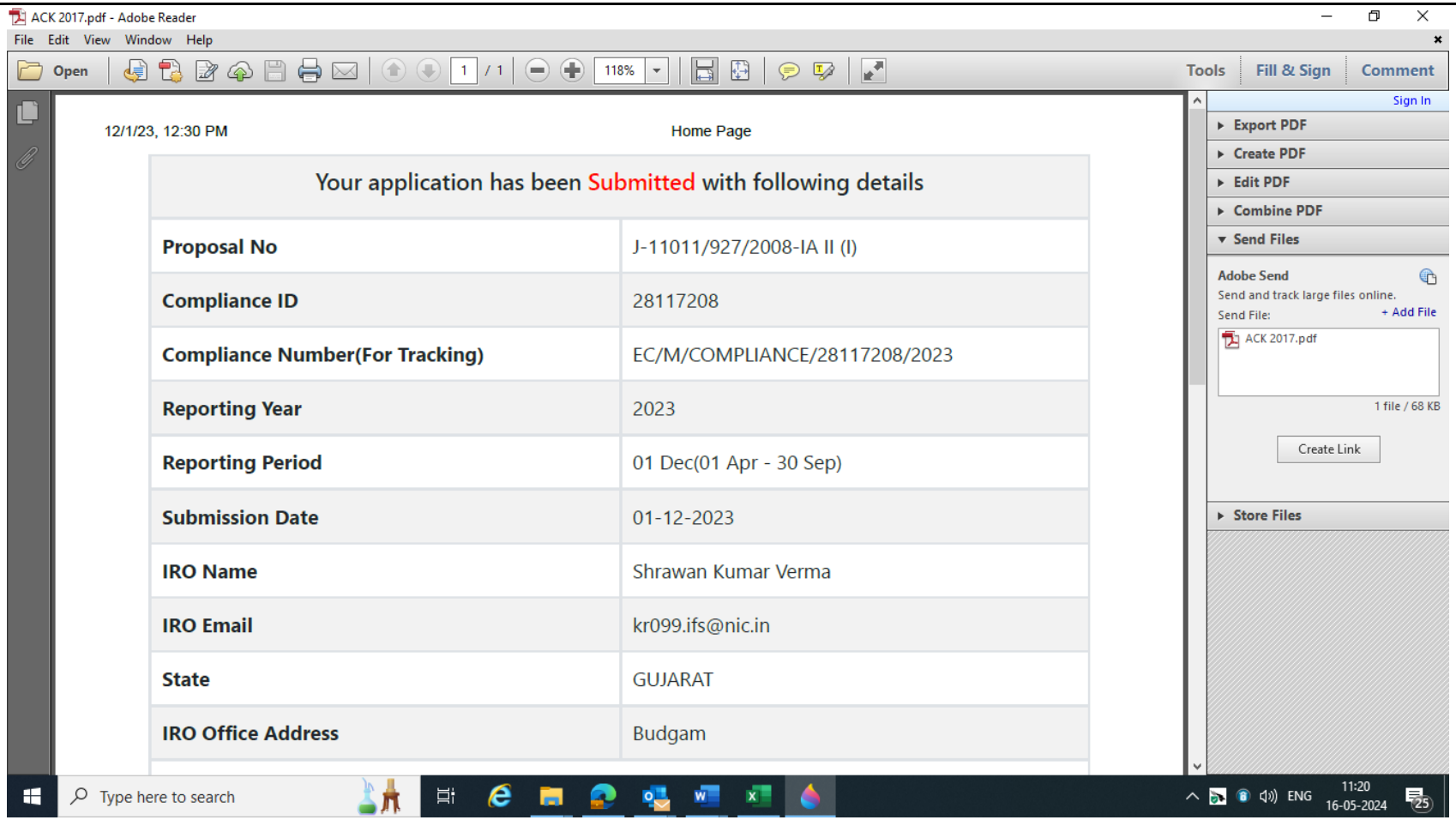
Hindalco Industries Ltd.

Unit: Birla Copper, Dahej

Capital Cost for Environmental Control Measures

Sr no	Item	Total in lacs
1	Dryer bag filer & dedusting system	669
2	Alkali Scrubber Smelter-1	8500
3	Water Cool hood Smelter-1 Converter 1,2 &3	1770
4	Ventilation hood from S & C furnace & bag house	150
5	ESP's of smelter-III	518
6	ESP's of CPP	400
7	Alkali Scrubber of Smelter –III	694
8	Effluent Treatment –II	1000
9	Sewage Treatment Plant-II	100
10	Sulfuric Acid Plant –III	8595
11	Tail Gas Scrubber SAP-III	3466.69
12	Tail Gas Scrubber SAP-I	5093.56
13	SLF for ETP waste	700
14	PG, slag & Flyash yard- for Phase-III	2000
15	Bag filters for CHP CPP-III and ash management	800.38
16	Liberator scrubber	141
17	PMR plant Bag filter	50
18	Fluorine scrubbing system in PAP-III	203.08
19	Scrubbing system for DAP-III plant	300
20	Green belt development	600
21	Zero Liquid Discharge	6754

	22	Wind fencing for coal yard	1395
		Total in Lacs	43899.71
		Total in crore	438.9971
11	The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's regional office at Bhopal / State Pollution Control Board / Central Pollution Control Board. A six-monthly compliance status report should be submitted to monitoring agencies.		The implementation of the project is monitored by Ministry's regional office at Bhopal / State Pollution Control Board / Central Pollution Control Board. The six-monthly compliance status reports are submitted regularly. The copy of acknowledgement is attached as under: The condition is complied with
12	The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in. This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Officer.		The company has published the information regarding obtaining the environment clearance for the aforesaid project in two daily news papers i.e. Gujarat Samachar dtd.2.4.2005 and The Times of India dtd.2.4.2005. The condition is complied with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28117208
Compliance Number(For Tracking)
EC/M/COMPLIANCE/28117208/2023
Reporting Year
2023
Reporting Period
01 Dec(01 Apr - 30 Sep)
Submission Date
01-12-2023
IRO Name
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