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By Registered Post

The Director, Ministry of Environment and Forests, Regional Office (Central Region), Kendriya Bhawan, 5th Floor, Sector "H", Aliganj, <u>Lucknow – 226024</u>

Sub: – Compliance report of Environment Clearance for **Rajpura Dariba Mines**, **Dist: Rajsamand-313211**, Rajasthan of M/S Hindustan Zinc Limited

Ref: - Environment Clearance Letter No. - J-11015/84/2018-IA.II (M), dated 13.04.2020

Sir,

With reference to the above subject, we are hereby submitting the **Six-Monthly Compliance Report** of the conditions stipulated in the **Environment Clearance** for the period of **October 2022 to March 2023.**

Thanking You, Yours faithfully

(Nathu Singh Choud

Unit Head - RDM POL Dates, Pol 313

- CC: 1. Incharge (Zonal Office)
 Central Pollution Control Board,
 Vithal Market, Paryavaran Parisar, E-5, Area Colony, Bhopal, PIN 462016
 - Member Secretary, Rajasthan State Pollution Control Board,
 Institutional Area, Jhalana Doongri, Jaipur-302004 (Raj)
 - Regional Officer, Rajasthan State Pollution Control Board Old Excise office building, Kalalwati Rajnagar, Rajsamand (Rajasthan), PIN – 313324
 The Deputy Director(s)/Scientist – C
 - 4. The Deputy Director(s)/Scientist C Ministry of Env., Forest and Climate Change, Integrated Regional Office, Jaipur, A-209 & 218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur (Raj.) - 304002
 - 5. O/C Env Cell



Hindustan Zinc Limited, Registered Office : Yashad Bhawan, Udaipur-313 004, Rajasthan, INDIA. www.hzlindia.com CIN : L27204RJ1966PLC001208 Rajpura Dariba Mine, P.O. Dariba, Teh. Railmagra, Distt. Rajsamand, Rajasthan - 313 211 T +91-2952 265 151 F +91-2952 265 143

Compliance Report of Environmental Clearance granted by the Ministry of Environment, Forests and Climate Change, Govt. of India

- Name of the Project: Expansion in production of Lead-Zinc Ore from 1.08 million TPA to 2.0 million TPA (Total Excavation 2.48 million TPA) & Lead-Zinc Ore Beneficiation from 1.2 million TPA to 2.5 million TPA from Rajpura Dariba Underground Mine (Mining lease area 1142.2106 & ML No. 166/2008), Located at Tehsil Relmagra, Distt- Rajsamand, Rajasthan, by M/S Hindustan Zinc Ltd
- Clearance letter No.: J-11015/84/2018-IA.II (M), dated 13.04.2020
- **Period of Compliance Report:** October 2022 to March 2023

Specific Conditions:

S.No.	A. Specific Conditions	Compliance Status
1	NOC for CGWA obtained vide LR No: 21- 4(315)/WR/CGWA/2008-1905 dated 16.11.2017 wherein the permission for dewater the accumulated ground water in mining pits @446.5 m3/day due to seepage and intersection of water table was provided. This NOC is valid for 3 years i.e., up to 15.11.2020. Beyond 15.11.2020. PP shall use the ground only after obtaining approval from CGWA and State Pollution Control Board (SPCB) concerned shall not issue Consent to Operate (CTO) for expansion proposal after 15.11.2020, till the project proponent obtains such permission. Zero liquid Discharge is to be maintained from tailing dam, PP shall not use surface water without obtaining permission from the concerned authorities. Plant should be operated with 100% recycle water and fresh water shall be used only for drinking purpose which is supplied for industrial, colony and nearby villages.	 Noted. Renewal NOC for 446.5 m3/day and Expanded capacity NOC for 2698 m3/day for dewatering of mine water due to seepage and intersection of water table vide letter dated 16.11.2020 and 07.01.2022 respectively and are valid till 15.11.2022 and 06.01.2024 respectively. Renewal of NOC for 446.5 m3/day withdrawal applied for on 21.11.2022 and is under processing. Zero Liquid discharge is maintained from tailing dam. Surface water is being used from Matrikundia dam as per the water supply agreements. 100% recycled water is being used for mine operations and Ore beneficiation plants. Freshwater is being used only for drinking (domestic) purposes which is supplied for Industrial, Colony and nearby villages.
2	Out of 0.48 MTPA of waste, 0.46 MTPA shall be used to fill underground voids, 0.02 to waste dumps and not more than 0.02 MTPA shall be used for increasing the height of tailing dam. Waste should not be transported outside the mining lease area and shall be utilised within the mining lease area. the dump shall be developed in 3 benches of 7 metre high. Total height of the dump shall not be more than 21 meters (from bases level of 495 mRL i.e. upto 516 mRL). The overall slope of the dump shall not be more than 35°. Total quantity of the waste materials in waste dump shall not be more than 3.64 lakh tonne.	 Noted. Waste generated due to mining is used for filling of voids in stopes and waste dumps. No waste is transported outside mining lease. For the compliance reporting period, 0.02 MTPA waste was dumped on waste dumps. Overall slope angle of waste dump is being maintained at less than angle of repose of broken material.

overall slope any maintained at less broken material, maintained around roll down boulders, 1m around waste collecting the rain v pit, and d)plantation inactive area of the additional stability for the stability of	es as proposed vis. a) de of waste dump is than angle of repose of b) retaining wall is he waste dump to prevent c) garland drain of 1 m x dump is excavated for vater into the storm water on shall be done in the e waste dump to provide etc. shall be implemented he waste dump. The area d not be more than 5 Ha.	<text><list-item></list-item></text>
development with d expansion is Rs. 12 20.0 lakh(recurrin within and outside during 2018-19 t saplings will be p (cumulative plantat during 2023-24 to saplings will be p (cumulative plantat PP shall implemen for the survival of engage the expert plantation density to PP shall develop an of grazing land if a mining activity an concerned authoriti mining purpose. Gn to be monitored	for plantation/green belt rip irrigation system after 00 Lakh (Capital) and Rs. g). Plantation proposed the mine lease area lease to 2022-23 total 56030 lanted on 43.1 Ha area ion 246030 on 2331. Ha), 2027-2028 total 10660 planted on 8.2 Ha area ion 256690 on 241.3 Ha). t the protection proposed the plantation. PP shall agency to increase the pat least 2500 saplings/ha. alternative grazing in lieu lready used by the PP for and take NOC from the es for use of grazing for owth of each plant needs and record should be record should also be	 PLANTATION IN MINE AREA Noted Plantation is being carried out as per the plantation/greenbelt development plan submitted. For the compliance reporting period, 3656 plants were planted. Growth of each plant is moni tored, and records are maintained. Survival rate for the plantation has been close to 90 %. Species planted – 64 species including Gulmohar, Madhurica Indica, Charooli, Aloe Vera, Bougainvillia etc.

	maintained for no of species planted, type of	Miyawaki Plantation Project
	species planted, survival rate etc. The budget earmarked for plantation shall be kept in separate bank account and should be audited annually. PP should annually submit the audited statement along with proof of activities viz photographs (before and after with geo location date and time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF &CC before 1st July of every year for the activities carried out during previous year.	
		• Separate GL account is being maintained for plantation.
4	Approval of Revised Conservation Plan for Schedule-1 species viz Indian Peafowl, Indian Gray Horn Bill, Black Shouldwer Kite, White eyed Buzzard, Indian Monitor Lizard, Indian Flapshell Turtle/Indian Mud Turtle, Indian Python, Indian Leopard, Indian Gazelle, four horned antelope, wolf, Margh crocodile and Pantherea Pardus needs to be obtained. PP shall sigh the MOU with State Government for implementation of conservation. PP shall	 Approval for Revised Wildlife (Schedule -1) Conservation Plan has been obtained from Chief Wildlife Warden vide letter dated 16.09.2020. Rs. 1.32 crores have been submitted to State Government as per the Wildlife (Schedule - 1) Conservation plan through demand draft vide letter dated

	deposit the amount proposed for conservation plan to state Government as per demand raised by them from time to time. PP shall report the status of payment and implementation of conservation plan to Regional Office, MoEF &CC annually.	 12.02.2020. Notification of the same is attached as Annexure – 11. MOU has been signed with State Government for implementation of Wildlife (Schedule -1) Conservation plan attached as Annexure – 11. Rs. 30 lakhs have been further submitted via letter HZL/RDM/ENV/2022-23/13117 dated 23.03.2023 for the implementation of Wildlife Conservation Plan.
5	 Budget earmarked for CER activities is Rs. 14.0 crores which include activity-1: Health, Hygiene and water a) Renovation and upgradation of Govt. Hospital (CHC Mahenduriya) (construction of additional wards, toilets, garden, mortuary, lighting etc) Budget Rs. 100 lakh; time line 1 year, b) installation of High capacity community RO in surrounding 4 villages; (1500 litres per hour capacity, auto TDS, real time data, 5000 storage, SS tank mounted vehicle to mobile ATM and water transfer 24*7 chilled water supply- Railmagra 2 Nos, Sindesarkalan, Gawadhih) Budget Rs 200 lakh @Rs. 100 lakh/year; time-line 2-year, c) construction of overhead tank and pipeline in village for uninterrupted water supply 20,000lts overhead tank at Kothdi); budget 300 Lakh; time line 1st, 2nd and 3rd year), activity -2 education – a) Holistic development of 3 government schools (additional classrooms, separate toilets, lab, computer classes, boundary wall and field development at kotdi, anjana and shivpura) budget Rs. 150 Lakh @R50 lakh/year time line 3 years, b) renovation of 20 old anganwadis (repair and maintenance work, painting, roof treatment, boundary, electricity et) budget 200 lakh @Rs.100 lakh/year t; time line 2nd and 3rd year). Activity-3 Infrastructure development a) Construction of check dam at Pipaswas) Budget Rs. 100 lakh time line 1st year b) B) community centres (at naya Dariba, Anjana, mahenduriya) Budget 120 lakh, time line 1st year 	 Activity wise status for the compliance reporting period is attached as Annexure – 10.

c)	Construction of stadium and	
	playgrounds (Kabra and Gawardi)	
	Budget 80 Lakh, time line 2 nd year	
d)	Solar lights (300 lights in	
	surrounding 10 villages Budget 100	
	lakhs; timeline 1st year)	
e)	Solar pumps water system (10 HP	
	motor with solar panels in 5	
	surrounding villages: Budget 150	
	Lakh 100 lakh, time line 2 nd and 3 rd	
	year).	
	In addition to above Rs.2.5 crore	
	shall be spent on	
	i) to provide sanitary vending	
	machine in govt. girls' schools,	
	village govt. Health Centres and SHG	
	Groups,	
	ii) facilities to under privileged group	
	for treatment of critical diseases like	
	cancer/heart surgery, kidney/liver	
	failure etc. in nearby village	
	iii) to provide online library in Govt	
	schools for referring course syllabus,	
	employment coaching exams etc and	
	iv) scholarship to meritorious/under	
	privileged youth for higher education. In case the amount proposed under	
	CER is left unspent than the same	
	should not be diverted and kept for	
	CER activity beyond 3^{rd} year. At the	
	end of life of mine if any amount	
	remains unspent than the same should	
	be spent in consultation with local	
	administrations for the development	
	of nearby villages.	
	The amount proposed under this head	
	should be kept in a separate bank	
	account and should be audited	
	annually. The PP should annually	
	submit the audited statement and	
	details of implementation of CER	
	activities along with proof of	
	activities viz photographs (before and	
	after with go-location date and time)	
	purchase documents, photographs	
	and geo location of the infrastructure	
	/facilities developed, etc to the	
	Regional Office of MoEF & CC	
	before 1 st July of every year for the	
	activities carried out during previous	
	year.	

6	Dudget compared for Orac d' 1 H 14	N (1
6	 Budget earmarked for Occupational Health Surveillance Plan shall be Rs. 204 Lakh which includes IME Budget @2500 per person (Rs 25 lakh for 2019-20, Rs 6.25 for 20202-21, Rs. 2.5 lakh/annual from 2021-22 to 2030-31) PME Budget @2500per person (Rs. 5 lakhs for 2019-20, Rs. 7 lakh/annual from 2020-21 to 2030-31 PPEs @Rs.5000 per person (Rs. 100 lakh for 2019-20, Rs. 62.5 lakh/annual from 2020-21to 2030-31 Occupational Hygiene (Rs. 18.5 lakh/annum from 2019-20 to 2030-31 Quantitative and Qualitative Hygiene Survey (Rs. 53 lakhs for 2019-20, Rs. 5 lakhs from 2020-21 to 2030-31) and AMC of OH software (Rs 2 lakh/annum from 2020-21 to 2030-31) and The amount proposed under this head should be kept in a separate bank account and should be kept in a separate bank account and should be audited annually. The PP should annually submit the audited statement and details of implementation of occupational health plan along with proof of activities viz, photographs (before and after with geo-location and date and time) purchase document, samplings reports, photograph and geolocation of the infrastructures/facilities developed, details of persons engaged for implementation of occupational health plan to the Regional Office of MoEF &CC before 1st July of every 	 Noted. As part of Occupational health surveillance plan, IME (Initial Medical Examination) and PME (Periodical Medical Examination) is done as per Mines rule, 1955. Qualitative exposure assessment conducted by ISS (India) Consultancy Services Pvt. Ltd. The overall objective of this study was to comprehensively assess the employee's exposure to chemical and physical agents (mainly noise, vibration and heat stress) and the need for further assessments for the improvement of the Occupational Health and Industrial Hygiene HMS software is used for management of Occupation Health data.
	year for the activities carried out during previous year.	
7	 Disaster Management Plan proposed shall be implemented scrupulously. Budget allocation for the emergency preparedness is prepared and submitted. Capital and recurring expenditure is around Rs. 2.29 crores which includes Rs. 0.84 Cr. For Rescue apparatus Rs. 0.35 Cr. For underground ambulance Rs. 0.15 Cr. for underground Rescue Van Rs. 0.15 Cr. for vehicle for surface movement Rs.0.50 Cr. for fire tendering equipment and Rs0.10 Cr. for structure for Work @ Height. 	 Activities mentioned as part of Disaster Management Plan are being carried out and the status of activities is given herewith. Rescue apparatus like Rescue Ram , spreader , hydraulic cutter, self rescuers have been procured. Underground Rescue Van has been provided. Structure for Work at height has been provided.

The recurring budget proposed is 1.53 Cr.	THE PARTY NEW YORK
which includes	
1) Rs.0.05 Cr. for RRRT Centre	
2) Rs.0.22 Cr. for apparatus, calibration	
and Maint.	
3) Rs.0.78 Cr. for RTPs and training	
4) Rs. 0.05 Cr. For RRRT competition	
5) Rs.0.14 Cr. for firefighting	
organisation	
6) Rs. 0.24 Cr. for Refuge chamber and RESCUE VAN	
self-rescuer	-
7) 0.05 Cr. for ambulance and rescue van	9
The amount proposed under this head should	
be kept in a separate bank account and should	的物质
be audited annually. The PP should annually submit the audited statement and details of	M 1/3 1/2
implementation of Disaster Manager Plan	2.20 4
along with proof of activities viz photograph	
and geolocation of the infrastructures/	
facilities developed, details of persons engage RESCUE APPARATU	S
for implementation of Disaster Management	
Plan along with proof activities viz,	
photographs (before and after with geo	
location date and time) purchase documents,	
photographs and geo-location of the	•
infrastructures/facilities developed, details of	0
persons engaged for implementation of Discouter Management Plan to the Designal	2
Disaster Management Plan to the Regional Office of MoEF&CC before 1 st July of every	
year for the activities carried out during	
previous year	A. S. Ser
RESCUE RAM	
8 Budget earmarked for Environmental • Activity wise status for the c	-
Management Plan (EMP) shall be Rs 110.50 Cr. (capital) and Rs. 6.95 Cr.(recurring) which Tailing dam Management/D	
• Tailing dam Management/D include Dust suppression system/dust	ry Tailing
extraction system installation with dust disposal – Dry Tailing / filtr	ation plant
monitoring sensor (opacity meter) at chimney is under commissioning and	will be up
sampling point (COSP) Rs. 1.2 cr (capital and & running in this financial ye	ar.
1.5 cr (recurring), timeline 1 year	
Tailing Dam Management / Dry tailing	
disposal rs. 26.20 cr (capital) and 1.96 DRY TAILING PLANT AN	
cr(recurring), timeline 2 years THE PLANT UNI CONSTRUCTION AT RD	
Tailing Thickener Rs. 0.5 cr (capital) and Rs.	
0.2 cr(recurring)time line;	
Surface water sprinkler Rs. 0.80 cr	WAY OF A
(capital)and 0.1 cr(recurring, timeline 1 year; Ventilation system Rs. 16.6 cr (capital and Rs.	AAL
1.0cr (recurring)time line 2 years;	
Mechanical road sweeper Rs. 0.80cr (capital)	
& 0.1cr (recurring) timeline 1 year	- Carlie
Rain water harvesting measures/deepening of	
Rain water harvesting measures/deepening of	
avisting village tanks 30.0 cr (capital) and 0.11	lonment
	•

Plantation/Green belt development with drip irrigation system 12.0 cr(capital) and 0.2cr (recurring) timeline 10 years • Automation in Environment Monitoring (capital) (CAAQMS) 21 cr 0.2 cr (recurring)timeline 1 year Construction of garland drain, and silt settling • tank and recycle system for waste dump management 0.3 cr(capital) and 0.1 cr(recurring)timeline 2 years Schedule-I fauna conservation plan cost 6.60 • cr (capital) and 0.01cr (recurring) timeline 2 years Installation of Oil grease trap system and sewage treatment plant, installation with display of COD, BOD, TDS, pH display at main gate entrance 18.0 cr (capital) and 0.2 cr (recurring) timeline 18 months Water hydrant system 0.7cr (capital)and 0.10 cr (recurring) timeline 18 month High density/Paste fill 10.40 cr (capital) and 1.1.cr (recurring) Hazardous waste storage facility 0.5cr (capital) and Recurring timeline 2 years Mobile water tanker 0.3 cr (capital) and 0.05 cr (recurring) time line 1 year The amount (except occupational health) proposed under this head should be kept in a separate bank account and should be audited annually. The PP should annually submit the audited statement and detailed environment report along with proof of activities viz photograph (before and after with geo location date and time) purchase documents, sampling report, photographs and geo location of the infrastructure/facilities developed, details of persons engaged in Environment Management Cell to the Regional Officer of MoEF&CC before 1st July of every year for the activities carried out during previous year.

submitted. For the compliance reporting period, 3656 plants were planted.

- Automation in Environment Monitoring – Continuous Ambient Air Quality Monitoring Station has been installed and commissioned.
- Automation in Environment Monitoring – Digital Water Level recorders have been installed.
- Schedule I fauna conservation plan -Approval for Revised Wildlife (Schedule -1) Conservation Plan has been obtained from Chief Wildlife Warden vide letter dated 16.09.2020. Rs. 30 lakhs have been further submitted via letter HZL/RDM/ENV/2022-23/13117 dated 23.03.2023 for the implementation of Wildlife Conservation Plan after the signing of MoU with Forest Department, Rajsamand.



		 Construction of garland drain and silt settling tank - Garland drains have been provided and sedimentation pits/sumps have been constructed at the corners of the garland drains thereby allowing proper settling of sediment/silt material. Image: Constructed at the corners of the garland drains thereby allowing proper settling of sediment/silt material. Construction of sediment/silt material. Construction of sediment/silt material. Construction of sediment/silt material. Constructed at the corners of the garland drains thereby allowing proper settling of sediment/silt material. Construction of sediment/silt material. Mechanical road sweeper - Truck mounted road sweepers have been provided and are used to control fugitive dust emissions.
		TRUCK MOUNTED ROAD SWEEPER
9	PP shall engage an expert agency to identify the area which has maximum possibility to be get impacted due to mining and cement plant activity. After ascertaining the area of influence the PP shall annually monitor the crop productivity of the identified area. PP shall provide the crop insurance for agricultural field falling in this area and in case of crop damage take immediate measure to mitigate the same and also ensure to pay crop loss compensation.	 Noted. An expert agency has been engaged to identify the area which has maximum possibility to be get impacted due to mining and beneficiation plant activity. After it was ascertained "As there was no significant reduction of crop production in the affected villages, there is no issue involved for any crop insurance to be paid to the cultivators by HZL."
10	In pursuant to Ministry's OM NO: 22- 34/2018-IA.II dated 16.1.2020 to comply with the direction made by Hon'ble Supreme Court on 8.1.2020 in WP (Civil) No 114/2014 in the	 Noted. After ceasing of operations, Re-grassing of the mining area and any other area

		1	
B.	 matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Standard Conditions 	•	which may have been disturbed due to other mining activities will be carried out. Land will be restored to a condition which is fit for growth of fodder, flora, fauna etc.
Ι	Statutory compliance	1	
1	This Environmental Clearance (EC) is subject to orders/judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Condition as may be applicable.	•	Noted. The directions of Honourable courts shall be adhered to.
2	The Project Proponent complies with all the statutory requirement and judgment of Hon'ble Supreme Court dated 2 nd August 2017 in Writ Petition (Civil) No: 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.	•	Noted. Statutory compliances and judgements of Supreme Court in matter of Common Cause versus Union of India & Ors will be complied with.
3	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective department of Mining & Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2 nd August 2017 in Writ Petition (Civil) No: 114 of 2014 in matter of Common Cause versus Union of India & Ors	•	Noted.
4	This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board of Wildlife, if applicable to the Project.	•	Noted. NBWL approval is not applicable to this project as there are National Parks, Wildlife Sanctuaries, Biosphere reserves, Wildlife Corridors, Ramsar sites, Tiger/Elephant reserves in Core & Buffer Zone (10 km radius) of Rajpura Dariba Mine.
5	This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.	•	Forest clearance is not applicable as there is no forest area in Core and Buffer Zone (10 km radius) of Rajpura Dariba Mine Copy of the letter received from DFO, Rajsamand is attached as Annexure -1 .
6	Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent of Establish/Consent to Operate from the	•	CTE/CTO have been obtained from Rajasthan State Pollution Control Board vide letter dated 28.02.2023 and conditions stipulated therein are being effectively implemented.

	concerned State Pollution Control		
7 8	Board/committee.The PP shall adhere to the provision of the Mines Act, 1952 Mines and Mineral (Development & Regulation), Act 2015 and rules and regulations made there under. PP shall adhere to various circular issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are	•	Noted. Adherence to the provision of the Mines Act, 1952 Mines and Mineral (Development & Regulation), Act 2015 and rules and regulations made there under is being ensured. Noted. Mining is being carried out in valid mine lease with consent from applicable stakeholders.
9	not owned by it. The Project Proponent shall follow the Mitigation measures provided in MoEF &CC OM No: Z-11013/57/2014-IA. II(M) dated 29 th October 2014 titled "Impact of mining activities on Habitation Issues related to the mining Project and villages are the part of mine lease areas or Habitation and villages are surrounded by the Mine lease area"	•	Noted. Mitigation measures mentioned in the OM are being implemented Study report concluded "The habitants of five villages have not reported any inconvenience due to illumination, blasting vibration, noise etc, as these are more than 500 m away from underground mine and beneficiation area"
10	The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.	•	Noted. Approval for drawl of surface water have been obtained in the form of Water Supply Agreements for Matrikundia dam. NOC from CGWA is obtained for withdrawal of groundwater by dewatering due to seepage and intersection of Water table.
11	A copy of EC letter will be marked to concerned Panchayat/ local NGO etc, if any, from whom suggestion/representation has been received while processing the proposal.	•	Complied. A copy of the EC letter has been marked to Tehsildar, District Industries Centre, Collector's office, and Panchayat Samiti vide letter dated 04.05.2020.
12	State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.	•	Complied. A copy of the EC letter has been marked to Tehsildar, District Industries Centre, Collector's office and Panchayat Samiti vide letter dated 04.05.2020
13	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspaper, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning	•	Complied Advertisement of grant of EC letter was done in two local newspapers (Dainik Bhaskar & Rajasthan Patrika) on 19.04.2020 within 7 days of the issuance of the clearance letter.

14	that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and website of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF&CC Regional Office for compliance and record. The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.	 Copy of the Advertisement is attached as Annexure -2. Noted. MoEF&CC will be informed in case of change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining will be carried out only after transfer of EC.
	time to time.	transfer of EC.
II	Air quality monitoring and preservation	<u></u>
15	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Station with 1 (one in upwind and 2(two) in downwind direction based on long term climatological data about wind direction such that an angle of 120degree is made between the monitoring locations to monitor critical parameters,, relevant for mining operations, of air pollution viz PM10,)M2.5,	 Continuous Ambient Air Quality stations have been installed for monitoring of all required air quality parameters. Data is being displayed at the front Main Gate of Rajpura Dariba Mines.
	Nos, CO and SO2 etc as per the methodology mentioned in NAAQS Notification No:B- 29016/20/90/PCI/I dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building canteen etc as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 3 months in front of the Main Gate of the Mine site.	
		<u>CAAQMS - 1</u>
16	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The fugitive dust emission from all sources shall be regularly controlled by installation of required equipment/machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppression agents may be	• Effective safeguards measures for prevention of dust generation like regular water sprinkling is being carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points.

	explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF&CC/ Central pollution control Board.	 sources is being regularly controlled by installation of required equipment/machineries and preventive maintenance along with truck mounted road sweepers. Image: The second second
III 1	Water quality monitoring and preservation In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEF&CC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydrogeological study of the area.	 Due to seepage and intersection of water table during mining activities, dewatering of accumulated water in mining pits is being carried out. Renewal NOC for 446.5 m3/day and Expanded capacity NOC for 2698 m3/day for dewatering of mine water due
2	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine leases shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug well located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in ground	 Monitoring of keys wells for water quality and water levels in and around the mine lease is being done regularly. The natural water bodies and or streams which are flowing in an around the mine lease are not being disturbed. Fresh water is being provided to villagers for their use. Water table is being nurtured so as to not go down below the pre-mining period. Rainwater harvesting in the form of desilting and deepening of village ponds is being carried out.

	water level and quality shall be submitted on six monthly basis to the Regional Office of the Ministry. CGWA and State Ground water Department/State Pollution Control Board	•	Reports on change in ground water level and quality is being submitted and reports are attached as Annexure – 4 and 5.
3	Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo meter installation during the mining operation in consultation with Central Ground Water Authority/State Ground Water Department. The Report on changes in ground water level and quality shall be submitted on	•	Monitoring of ground water level and quality is done through a network of piezometers and wells in and around the lease. Reports on change in ground water level and quality is being submitted and reports are attached as Annexure – 4 and 5.
	six monthly basis to the Regional Office of the Ministry, CGWA and State ground water department/State Pollution Control Board.		anu 5.
4	The Project Proponent shall undertake regular monitoring of natural water course/water resources/springs and perennial nallahs existing flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/or alteration be made to water bodies during mining operation without justification and prior approval of MoEF&CC. The monitoring of water courses/bodies existing in lease area shall be carried out four time in a year viz pre monsoon (April-May), monsoon (August), post- monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water authority and Regional	•	Regular monitoring of natural water course/water resources/springs and perennial nallahs existing flowing in and around the mine lease is being carried out. Regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/adjacent to the mine lease and maintain its records are being maintained. Monitoring of water courses/bodies existing in lease area is being carried out quarterly covering all four seasons pre monsoon (Apr-May), monsoon (August), post monsoon (November) and Winter (January) and the data is attached as Annexure -6 .
	Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six monthly basis.		
5	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run off, acid mine drainage and metal contamination in run off shall be monitored along with total	•	Water generated as part of dewatering due to mining operations is utilized in wet drilling in mining ore beneficiation in beneficiation plant.

	suspended solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment Forest and Climate Change may also be referred in this regard.	•	Tailin plant Only suppr sprint Moni	ng dam is also us	C
6	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF&CC annually.		been and d the m	prepared which leepening of villa ine lease area.	
7	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by	•	waste collee benef	e water from the	er (Workshop and mine) is properly e-used in the s and HEMM

8	concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through oil and grease trap. The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office the MoEF&CC and State Pollution Control Board/Committee.	•	Water audit study has been carried out by FICCI. Measures for reducing the consumption of water have been taken as per the findings of Water Audit.
IV	Noise and vibration monitoring and prevent	ion	
9	The peak particle velocity at 500m distance or within the nearest habitation whichever is closer shall be monitored periodically as per applicable DGMS guidelines	•	PPV is monitored periodically as per the applicable DGMS guidelines. PPV ranges between 0.75 – 3.79 mm/sec at a distance of 0 to 300 m from mining activity.
10	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day/night hours.	•	Floodlights / masks are oriented in such a way that they do not disturb the biological clock for villagers Noise levels are kept within the prescribed limits for day/night hours Noise monitoring is carried out to measure the noise levels during day/night. Monitoring reports are attached as Annexure – 8 .
11	The proponent shall take measures for control of noise level below 85 dBA in the work environment. The workers engaged in operations of HEMM etc should be provided with ear plugs/muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/personals/labourer are working without personal protective equipment.	•	Measures are taken to control noise level below 85 dBA in the work environment. PPE's with ear plugs and muffs are provided to individuals working in high noise areas. Protective respiratory devices along with training, awareness and information on safety and health aspects is also provided for workers working in the dusty areas.
V	Mining Plan		
12	The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year wise plan was mentioned for total excavation i.e., quantum of mineral, waste over burden, inter burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral and	•	Noted. Working parameters are being adhered to. No change in basic mining proposal like mining technology, total excavation, mineral and waste production, lease

	waste production, lease area and scope of working (viz method of mining, overburden and dump management, OB and dump, mining, mineral transportation mode, ultimate depth of mining etc) shall not be carried out without prior approval of the Ministry of environment, forest and climate change, which entail adverse environmental impact, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt in the form to Short Term Permit (STP), query		area and scope of working (viz method of mining, overburden and dump management, OB and dump, mining, mineral transportation mode, ultimate depth of mining etc) will not be carried out without prior approval.
13	license or any other name. The Project Proponent shall get the Final Mine Closure Plan along with Financial assurance approved from Indian Bureau of Mines/Department of Mining, & Geology as required under Provision of the MMDR Act, 1957 and Rules/Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.	•	During final closure of the mine, Final Mine Closure Plan along with Financial assurance will be approved from Indian Bureau of Mines/Department of Mining, & Geology as required under Provision of the MMDR Act, 1957 and Rules/Guidelines made thereunder.
14	The land use of the mine lease area at various stages of mining scheme as well as at the end of life shall be governed as per the approved Mining Plan. The excavation vis a vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self- sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.	•	Land use of the mine lease area is being governed as per the approved Mining Plan. Afforestation is being done as per approved mining plan cum Progressive Mine closure Plan. Monitoring and management of rehabilitated areas is done until the vegetation becomes self-sustaining.
VI 15	Land reclamation The overburden (OB) generated during the mining operations shall be stacked at earmarked OB dump site(s) and it should not be kept active for a long period of time. The physical par and angle of slope shall be governed as per the parameters of the OB dumps like height, width and angle of slope shall be formed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The top soil shall be used for land reclamation and plantation.	•	Since it's an underground mine, no overburden is generated. Waste generated due to mining is used for filling of voids in stopes. For the compliance reporting period, 0.02 MT waste was dumped on waste dumps.
16	The reject/Waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of	•	Noted.

	the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circular issued by DGMS w.r.t safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.	for filling o dump. For the com 0.02 MT wa dumps. Overall slop being maint	rated due to mining is used f voids in stopes and waste apliance reporting period, aste was dumped on waste pe angle of waste dump is tained at less than angle of roken material.
17	The reclamation of waste dump sites shall be done in scientific manner as per the approved Mining Plan cum Progressive Mine Closure Plan.	being done in the approx	n of waste dump sites is in a scientific manner as per ved Mining Plan cum Mine Closure Plan.
18	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaption of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/compactors thereby ensuring proper filling /levelling of dump mass. In critical area, used of geo textiles/geo membranes/clay liners/ Bentonite etc. shall be undertaken for stabilization of the dump.	regulates loo The dump n help of ensuring pi dump mass.	
19	The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slop stability report shall be submitted to concerned regional office of MoEF&CC	Dump heig meters.	ght is not more than 30

20	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and top soil/OB/Waste dump to prevent run off of water and flow of sediments directly into the water bodies (Nallah/River/Pond et) The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.	• Garland drains have been provided and sedimentation pits/sumps have been constructed at the corners of the garland drains thereby allowing proper settling of sediment/silt material.
21	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediment/silt material. The sedimentations pits/sumps shall be constructed at the corners of the garland drains.	 Garland drains have been provided and sedimentation pits/sumps have been constructed at the corners of the garland drains thereby allowing proper settling of sediment/silt material. Image: Sediment of the set of the
22 VII	The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t safety in mining operation shall be strictly adhered to maintain the stability of dumps. The top soil shall be used for land reclamation and plantation purpose. Transportation	• Since it's an underground mine there is no disturbance to top soil.

23	No transportation of the minerals shall be allowed in case of roads, passing through villages/ habitations. In such cases, PP shall construct a bypass road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meter) so that the adverse impact of sound and dust along with chance of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/rural roads shall be allowed in consultation with nodal state govt. department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicle from authorized pollution testing centers.	 No Transportation of minerals carried out outside the lease, passing through villages/habitations. Vehicular emissions kept under control and regularly monitored. Pollution Under Control (PUC) certificate is mandatory for all the vehicle from authorized pollution testing centres. PUC camps are organized on World Environment day. Image: A statement of the state
24	The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yard etc. should invariably be provided with dust suppression arrangements. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system shall be installed crushers, belt conveyors and other area prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.	 Water sprinkling is done on ramp/haulage road of the underground mine. Sprinkling systems have been installed at dust generation areas. The fugitive dust emission from all sources is being regularly controlled by installation of required equipment/machineries and preventive maintenance along with truck mounted road sweepers. Bag filters have been installed in crusher area. Covered conveyors are used to avoid dust while transportation. Tyre washing system has been provided to prevent formation of fugitive emissions.

		TYRE WASHING SYSTEM
VIII 25	Green Belt The Project Proponent shall develop green belt in 7.5 m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operation within the lease. The whole Green Belt shall be developed within first 5 years starting form windward side of the active mining area. The development of green belt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	 out of the total acquired land of 554.19 ha. Greenbelt has been provided along the mine boundary in order to arres pollution emanating from mining operations.
26	The Project Proponent shall carryout plantation/afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community area etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/Tribal Welfare Department/Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Ha. Adequate budgetary provision shall be made for protection and care of trees.	 Plantation is being carried out as per the plantation/greenbelt development plan submitted. For the compliance reporting period 3656 plants were planted. This high-density plantation has been carried out to increase the overal plantation density to 2500 saplings/ha. Growth of each plant is monitored, and records are maintained. Survival rate for the plantation has been close to 90 %.
27	The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State government in this regard. Project Proponent should essentially implement the direction of the Hon'ble Supreme Court with regard to acquisition of	• Alternative arrangements will be made for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease.

28	grazing land. The sparse trees on such grazing ground which provide mid-day shelter from the scorching sun, should be scrupulously guarded protected against felling and plantation of such trees should be promoted. The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.	•	Precautionary measures are being undertaken for conservation and protection of endangered flora and fauna and Schedule – 1 species during mining operations. Approval for Revised Wildlife (Schedule -1) Conservation Plan has been obtained from Chief Wildlife Warden vide letter dated 16.09.2020.
29	And implemented in consultation with the state forest and wildlife department. A copy of wildlife conservation plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.	•	MOU has been signed with State Government for implementation of Wildlife (Schedule -1) Conservation plan. Rs. 30 lakhs have been further submitted via letter HZL/RDM/ENV/2022-23/13117 dated 23.03.2023 for the implementation of Wildlife Conservation Plan.
IX	Public hearing and human health issues	1	
30	The Project Proponent shall appoint an Occupation Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the Mining activities, as per the DGMS guidelines. The record shall be maintained properly PP shall also carryout Occupational health check -ups in respect of workers which are having ailments like BP, Diabetes, habitual smoking etc. The check-ups shall be undertaken once in six months and necessary remedial preventive measures be taken. A status report on the same may be sent to MoEF&CC Regional Office and DGMS on half yearly basis.	•	Occupational Health Monitoring is being done which includes Weight, Height, BMI, CBC, Blood Sugar Fasting and PP, Lipid Profile, Liver Function test, Kidney Function Test, Urine Examination, Audiometry, ECG, Spirometry, Chest X ray (ILO Quality 14 x 17 inches) and Blood Lead during PME and IME, Eye examination for Drivers and Welders. Records of Health Surveillance is being maintained Digitally and Hard Copies, including the results of and the records of Physical examination and tests.
31	The Project Proponent must demonstrate commitment to work towards Zero Harm from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazard and assess their potential risk to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for	•	Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health is being done as per Nature of Job, Age, Exposure and Work Place. Health Risk Assessment through

	neighbourhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for sanitation, persona hygiene, hand washing, not to defecate in open. Women health and hygiene (providing sanitary napkin) hazard of tobacco and alcohol use. The proponent shall carryout base line HRA for all the category of workers and thereafter every five years.	•	Qualitative exposure assessment conducted by ISS (India) Consultancy Services Pvt. Ltd. The overall objective of this study was to comprehensively assess the employee's exposure to chemical and physical agents (mainly noise, vibration and heat stress) and the need for further assessments for the improvement of the Occupational Health and Industrial Hygiene. Community Health risk assessment is being done with the help of Physicians from CHC/ PHC in Community with focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections. Free Medical Service is provided in Community from Dariba Mines Hospital including Investigations. We are working with Community in Creating awareness about Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Menstrual Hygiene, hazard of tobacco and alcohol use. Regular screening and Training are being done with Specialist and NGO.
32	The proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust X-Ray chest; for Noise Audiometric; for lead Exposure Blood lead; for Welders full Ophthalmologic Assessment; for Manganese miners a complete neurological Assessment by certified neurologist, and manganese (Mn) Estimation in Blood. For Inorganic Chromium fortnightly skin inspection of hands and foreman's by a responsible person. Except routine tests all test would be carried out in a lab accredited by NABH. Records of Health surveillance must be kept for 30 years, including the results of and the records of physical examination and tests. The record of	•	Our mine is Lead Zinc underground mine, the clause regarding OHS for manganese mine or inorganic chromium is not applicable to our mine. Same way exposure due to materials like Asbestos, Hard rock Mining, Silica, Gold, Kaolin, Aluminium, Iron Manganese, Chromium, Uranium are not there. Lead monitoring in urine and blood has been carried out for all workers. Occupational Health Monitoring is being done which includes Weight, Height, BMI, CBC, Blood Sugar Fasting and PP, Lipid Profile, Liver Function test, Kidney Function Test, Urine Examination, Audiometry, ECG,

	exposure due to materials like Asbestos, Hard rock Mining, Silica, Gold, Kaolin, aluminum, Iron Manganese, Chromium, Lead Uranium need to be handed over to the Mining department of the state in case the life of the mine is less than 30 years. It would be obligatory for the state mines departments to make arrangements for the safe and secure storage of the records including X Ray. Only conventional X-ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17x14 inches and of good quality)	•	Spirometry, Chest X ray (ILO Quality 14 x 17 inches) and Eye examination for Drivers and Welders. Records of Health Surveillance is being maintained Digitally and Hard Copies, including the results of and the records of Physical examination and tests.
33	The Proponent shall maintained a record of performance indicator for workers which includes a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5-24.9 (b) the Final Chest X- Ray compared with the base line X-rays should not show any capacities (c) At the end of their leaving job there should be no diminution in their lung functions forced expiratory volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age (d) their hearing should not be affected. As a proof an audiogram (first and last need to be presented) (e) they should not have developed any persistent back pain, neck pain and the movement of their Hip, Knee and other joints should have normal range of movement (f) they should not have suffered loss of any body part. The record of the same should be submitted to the regional office, MoEF&CC annually along with details of the relief and compensation paid to workers having above indications.	•	Noted. Occupational Health Monitoring is being done which includes Weight, Height, BMI, CBC, Blood Sugar Fasting and PP, Lipid Profile, Liver Function test, Kidney Function Test, Urine Examination, Audiometry, ECG, Spirometry, Chest X ray (ILO Quality 14 x 17 inches) and Eye examination for Drivers and Welders. Records of Health Surveillance is being maintained Digitally and Hard Copies, including the results of and the records of Physical examination and tests. All the details pertaining to health of workers is kept in Form – O.
34	The Project Proponent shall ensure that personnel working in dusty area should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	•	PPE's including protective respiratory devices such as dust masks are provided to all the personnel working in dusty area. Regular training is provided on safety and health aspects.
35	Project Proponent shall make provision for the housing for workers/labour or shall construct labour camps within/outside (company owned land) with necessary basic infrastructure/facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed	•	Housing is provided for workers/labour with necessary basic infrastructure / facilities. Domestic waste water is treated with STP and utilized for gardening/horticultural purposes.

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	after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.	• Domestic waste water is treated with STP in order to avoid contamination of underground water.
36 X	The activities proposed in Action Plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The status report on implementation of action plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration Corporate Environment Responsibility (CE)	 Noted. All the commitments made during public hearing have been incorporated in budget of EMP and CER. Status for activities as part of EMP and CER has been submitted against their respective points.
37	The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry OM No: 22-65/2017- IA. II(M) dated 1.5.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual repost of implementation of the same along with documentary proof viz photographs, purchase documents, latitude and longitude of infrastructure developed and road constructed needs to be submitted to Regional Office MoEF&CC annual along with audited statement.	 Separate GL account is being maintained. Proposed activities implementation status has been submitted against Specific Condition No. 5 Documentary evidence in form of photographs is given herewith. Implementation of the providence in form of photographs is given herewith. Community of the providence of the photographs is given herewith. Community of the providence of the photographs is given herewith. Community of the providence of the photographs is given herewith. Community of the phot
38	Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain diverting the same for other purposes. The year wise expenditure of such funds should be reported to the MoEF&CC and its concerned Regional Office.	 Separate GL account is maintained for environment protection measures. Expenditure for the period of Oct-22 to Mar-23 is Rs. 234.15 lakhs.

XI	Miscellaneous		
39	The Project Proponent shall prepare digital map (land use and land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.	•	Digital map (Land use and Land cover) for the entire lease area was done in November 2018. Copy attached as Annexure – 9.
40	The Project authorities should inform to the Regional Office regarding date of financial closures and final approval of the Project by the concerned authorities and the date of start of land development work.	•	This Environmental clearance has been granted for expansion of mines & beneficiation plan. This is a brownfield project.
41	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEF&CC and its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board	•	Six monthly compliances are being submitted to MoEF&CC, Regional Office, CPCB & RSPCB. Last six-monthly compliance was submitted vide letter dated 10.11.2022
42	A separate Environmental Management Cell with suitable qualified manpower should be set up under the control of a Senior Executive. The Executive shall directly report to Head of the Organization. Adequate number of qualified environmental scientists and mining engineers shall be appointed and submit a report to RO, MoEF&CC.	•	A separate Environment Management Cell has been set up which is under the control of Unit head of Rajpura Dariba Mines.
43	The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data/ information/ monitoring reports	•	Noted. Full cooperation will be extended to MoEF&CC by furnishing the requisite data/ monitoring reports.

कार्यालय उप वन संरक्षक, वन्यजीव, राजसमन्द
<u>Sadhna Sikhar Road, Rajsamand Phone & Fax No. 02952-223813 Email- dcf.wl.rajsamand@gmail.com</u> क्रमांकः पत्रा () सर्वे/उवसं/2018–19/ २८२४ दिनांकः २५/०/१४
क्रमांकः पत्रा () सर्वे/उवसं/2018-19/ 7528 दिनांकः २५ 9/18
निमित्तः –
Unit Head Hindusthan zinc
Rajpura Dariba Mine
Tehsil Railmagra Distt.Rajsamand
Distriction
विषय :- Certificate regarding Non-involvement of forest area in Core and Buffer Zone. (10 km radius) of Rajpura Dariba Mine.
संदर्भ :- आपका पत्रांक UH(RDM)ENV/2018/132 Date : 28.08.2018 के कम में।
उपरोक्त विषयार्न्तगत संदर्भित पत्र में वर्णित Rajpura Dariba Mine क्षेत्र के चारो तरफ 10 किमी0 की परिधि में इस वन मण्डल अधीन घोषित वन क्षेत्र नही पड़ता है।
12CM
(फतेह सिंह राठौड़)
उप वन संरक्षक
वन्यजीव, राजसमन्द
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हिन्दुस्तान जिंक लिमिटेड रजि. ऑफिस : यशद भवन, उदयपुर - 313 004 PBX NO. 0294-6604000, CIN-L27204RJ1966PLC001208, www.hzlindia.com
राजपुरा दरीबा लेड -जिंक खनन परियोजना
ग्राम राजपुरा दॅरीबा, तहसील रेलमगरा, जिला राजसमन्द(राज.)
पर्यावरण स्वीकृति प्राप्ति सूचना बाबत
सर्व साधारण को सूचित किया जाता है कि भारत सरकार के पर्यावरण, वन और जलवायु परि वर्तन मंत्रालय नई दिल्ली के पत्र क्र मां क J-11015/84/2018-IA.II(M) दिनांक 13.04.2020 के द्वारा हिन्दुस्तान जिंक लिमिटेड की राजपुरा दरीबा खदान (एम.एल.नं 166/2008, खनन पटटा क्षेत्र 1142.2106 हैक्टेयर) की वर्तमान खनन क्षमता 1.08 मिलियन टन प्रतिवर्ष से बढाकर 2.0 मिलियन टन प्रतिवर्ष लेड जिंक खनिज अयस्क उत्पादन (कुल उत्खनन 2.48 मिलियन टन प्रतिवर्ष लेड-जिंक अयस्क सज्जीकरण क्षमता 1.2 मिलियन टन प्रतिवर्ष से बढाकर 2.5 मिलियन टन प्रतिवर्ष करने हेतु पर्यावरण स्वीकृति प्रदान कर दी गई है। इसकी प्रति राजस्थान राज्य प्रदूषण नियंत्रण मंत्रालय, नई दिल्ली की वेबसाइट (<u>www.parivesh.nic.in</u>) पर उपलब्ध है। (राम मुरारी) यूनिट हेड राजपुरा दरीबा माइंस

कुंभलगढ़. खमनौर. केलवा. दरीबा. कुंवारिया. देलवाड़ा. लावासरदारगढ

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		ते में सैंगे जाल अल्म (5) ता, करम्पन, रीत मा (2) क स्वयन हैं भी (5) स, आपला जुए (5) स, मापुलाता 1 (2,2) जीपुर्ग में परिले, ते प्रकार जीव ले (3) पर्यात्र जीव में भी पर्यात्र जीव में	र्व गीत इ.चाल्टी त पाली नार की है गीत की एक त पाली होने एक	2. (See 1 97.)	के साथ थ (3) (लह गर्क (काप (4) काप्, अनेना र की एक कि (प्राप्त का एक ((2,3) (प्राप्त की ((3) (प्राप्त की ((3) () () () () () () () () () (विश्व और गीत काले वगुर, जुले स्था (4) में गीत प्रसर्थ दिस्टम (2) म्या की प्रस पीठ काली और ग्रास)? : स्वर्वास्ट्री, सॉन ग्रास				

भाग का विषय (3.5 (2)) के देख आरंद, को वे सिंह की है जिस का रिवर्स (3.3) में है जिस का रिवर्स हुआ हुए करने मुं की का का रिवर्स हुआ हुए करने में का का रिवर्स का रिवर्स हुआ हुए करने के बच्चान, कुल के एस स्वरूप हिर्मेश कि बच्चान, कुल के एस स्वरूप हिर्मेश कि बच्चान, किरन प्रथा है की बाली 3., "तिवार प्रथा है की बाली 3., "पर (3) एक किल्म (2) लगहा आही हैं' गीत ल्प्यूर आगी हैं. पंत १-६ (३) स्वारी, स्तु भी एक

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नवीं पुण्यतिथि पर श्रद्धांजलि ्रत्रही रत सेवा की मौ रहान्वित करने बाले जम्म गहीद श्री सोहनलाल रेगर



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सेनेटाइजेशन के महत्व संबंधी जानकारी दी

किर तम में बार्या

भ्रांतियां फैलाकर गुमराह करने वाले

लोग मानवता के हत्यारे : कमल मुनि



जरूरतमंद लोगों को बांटे 130 राशन किट, कोरोना योद्धाओं का किया सम्मान

जंगल में बसे रूपनगर गांव में 40 परिवारों को प्रशासन ने खाद्य सामग्री वितरित की

Sensitivity: Public (C4)



महाप्रज्ञ ने अपनी प्रज्ञा से लाखों लोगों के

160117, #20181 19 Miles, 2020 16

सेन महाराज की जयंती आज, घर पर ही मनाने की अपील

हों। मनान को अपाल अवझा। जहर सहैल जातरास के धेन में रीक्स को सेन आहराय परे नगते मनई वाएं। मनान के अध्य को लगता सेन ये बाताया कि वासे पर तम्म की पति हस बात कोई सार्वजेक्ता स्वार्थ्य मने हिंगे। अध्य में कोरेता सकारी के लोकर मनाजलों में जाति। स्वारा की आपकी महारा से अपने पत्री में सकार परेजाजूजर सेन सहाराय सी आपकी मन्दरी

मेवाड क्लब ने एडीएम को सौंपे 3 लाख रुपए भवाइ वराव न एडाएंग का साथ 3 राएडा तथर एडाकांग्री की कैरिक राज्यती के आजपत. संके, सासक (सेर्थ के मालवा के लिए मेला प्रात्मार्थ के स्टार्म के 3 लावा 3 जाता 3 में कर रापा चा के राज्यालां संवीध तीर्का के कि लिए प्रतिप्र मंत्रेल कर रापा चा के राज्यालां संवीध तीर्का के कि प्रतिप्र मंत्रेल व्यवस्थाता, प्रश्नेल सार्वक साथ क अध्यक्ष के बांचीए, सार्वेल व्यवसाल, प्रतिप्र मंत्रिक साल कर्णकार, स्रीलंग राज्येएग, सार्वेल व्यवसाल, प्रतिप्र मंत्रीक साल कर्णकार, स्रीलंग जैन दूस्ट ने दिए 1 लाख 11111 रुपए

अन्त ६९८ न सिए । तिरिम्स 11111 स्पर्ध इन्द्रार्थना (वीर्तिकाल के कोल्प्रेल्ड) हिन्दुरु तर प्रवेत के को प्रवर्णनी सामय के दिन्द्र आपने स्वार्थना के प्रवतना के को साथ 11 कर प्रवत के कि कि के कि का कि प्रवतना के 120 फलन समयी के किट आप भेजाव के जुड़ा को पहुंद्र प्रियत का प्रवेत्व, तीयला सिंहती, अन्द्राला कि किन्द्र के प्रवतना के प्रवेत्व, तीयला सिर्फरी, अन्द्राला कि किन्द्र के प्रवतना के प्रवतना कर को कि कि स्वार्थना के किन्द्र के प्रवतना के प्रवतना के प्रवतना साथ के कि कि साथ भेजाव के जुड़ा के प्रवतना कि प्रवतना साथ कि कि साथ भेजाव के किन्द्र के प्रवतना के किन्द्र प्रवतना के को कि कि साथ के किन्द्र के किन्त प्रेर कान सम्प्री के किए प्रम पंत्रपत प्रेरण, जीवका सिंग्यों, जानुकान कि प्रमिय, कजीवनाल प्रमित्र, लोकी लोन

शहीद बीर राजू रावत खाद्य सामग्री किट वितरण की जरूरतमंदी के लिए के बलिवान दिवस पर किया नमन रिपोर्ट रोजाना बीडीओ को दें सामग्री किट वितरण की जरूरतमंदी के लिए असं को दें 9 पंतायतों का पैसे 9 पंतायतों का पैसे जिस्त्री के किस्त्र के लिए पंतायतों का पैसे पंतायतों के किस्त्र के लिए पंतायतों के किस्त्र प्रायती के किस्त्र भामाशाहों ने दी राशि

जहरीली दवा पीने से वृद्ध की मौत

दुर्दु का मारा साम्राक्षी: चार्युप वाता की तरेता माराक्षी: चार्युप वाता की से उद्ध जी स्वार्य्य प्रदान कर प्रस्तावन सार्वे पर वा का में से बुद्ध की सांस के पांच पुरासा के बार्य के पांच पुरास कर की मार्थी के पांच पुरास कर की मार्थी के पांच पुरास के बार्य के कर में साम पुरास के बार्य के कर में साम प्रमान पर पुरास के का मार्थित साम्राज्या और पीरसाइंग्रेज अस प्रायाज्या की कर पीरसाइंग्रेज अस



मसमधेद, भीपादा भड़ां में राभेश्याम साटीक के स्रोत भर विजनेते के ता इक्ताने में निकले लियती में आप लग गई। नगर परिषद की दसकल अंग पर काल पाया: आप में आधा लोगा आग, नीम के पेट्र जल गए



चोली अमिकन करण्या। धीन पर कुल्टे के मंग मीर्गाक का लोगपुरुन मुलोमिन किया। ने मंगपुरुक कुल्डान घराए। प्रमुके जीवन या सन्मालक नि नगरन के आभरण, श्रेष्ट्र मं साल, बोली का चीलक, म



Sensitivity: Public (C4)

Average Ambient Air Quality Monitoring Results

Oct – 22						
Name of Monitoring Station	PM 10 (μg/m3)	PM 2.5 (μg/m3)	NO2 (μg/m3)	SO2 (µg/m3)	CO (µg/m3)	
Near Laboratory	72.79	29.60	11.25	3.83	370	
Near DG Set	66.92	29.50	12.20	3.37	370	
Near AB - Type Quarter	64.36	27.06	13.48	3.21	350	
Near Concentrate Yard	65.21	33.25	13.88	3.78	320	

		Nov - 22			
Name of Monitoring	PM 10	PM 2.5	NO2	SO2	CO
Station	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)
Near Laboratory	74.02	36.92	14.24	5.46	290
Near DG Set	79.01	40.44	13.32	3.43	350
Near AB - Type Quarter	70.14	34.11	12.45	4.09	310
Near Concentrate Yard	72.30	26.84	13.70	4.03	310

		Dec - 22			
Name of Monitoring	PM 10	PM 2.5	NO2	SO2	CO
Station	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)
Near Laboratory	67.13	29.14	12.52	5.59	390
Near DG Set	73.88	32.22	12.34	5.51	410
Near AB - Type Quarter	69.98	34.57	12.77	5.17	340
Near Concentrate Yard	69.96	44.07	12.31	6.34	350

Jan - 23							
Name of Monitoring	PM 10	PM 2.5	NO2	SO2	CO		
Station	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)		
Near Laboratory	74.25	34.18	14.16	4.51	340		
Near DG Set	68.15	29.53	14.90	5.08	380		
Near AB - Type Quarter	65.66	30.86	13.82	6.28	310		
Near Concentrate Yard	68.97	32.71	15.42	4.35	350		

		Feb - 23			
Name of Monitoring	PM 10	PM 2.5	NO2	SO2	CO
Station	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)
Near Laboratory	81.53	42.65	12.53	3.96	380
Near DG Set	73.05	31.86	12.47	4.04	360
Near AB - Type Quarter	80.61	37.48	14.34	6.55	340
Near Concentrate Yard	72.38	40.20	12.35	5.74	330

		Mar - 23			
Name of Monitoring	PM 10	PM 2.5	NO2	SO2	CO
Station	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)
Near Laboratory	83.10	35.02	12.67	6.26	330
Near DG Set	80.26	31.84	12.54	3.87	320
Near AB - Type Quarter	76.40	35.20	12.87	6.60	290
Near Concentrate Yard	73.43	26.00	12.79	5.48	290

Wells water Quality & Level results

Oct	_	22
Out		

	001 - 22	
		(All figures in ppm except pH)
Parameter	Sumer Singh Well Water	Nahar Singh Well Water
pH	7.57	7.14
Suspended Solids	12	14
Lead	BDL(<0.01)	BDL(<0.01)
Zinc	BDL(<0.01)	BDL(<0.01)
Copper	BDL(<0.01)	BDL(<0.01)
Iron	BDL(<0.01)	BDL(<0.01)
Cadmium	BDL(<0.001)	BDL(<0.001)
Nickel	BDL(<0.01)	BDL(<0.01)
Cobalt	BDL(<0.01)	BDL(<0.01)
Depth of well from Surface (ft.)	90	85
Water level in well from Surface (ft.)	76.12	4.87

BDL: Below Detection Limit

Nov - 22

(All figures in ppm except pH)

		(All ligures in ppin except pr)
Parameter	Sumer Singh Well Water	Nahar Singh Well Water
рН	7.82	7.23
Suspended Solids	4	17
Lead	BDL(<0.01)	BDL(<0.01)
Zinc	BDL(<0.01)	0.02
Copper	BDL(<0.01)	BDL(<0.01)
Iron	BDL(<0.01)	0.06
Cadmium	BDL(<0.001)	BDL(<0.001)
Nickel	BDL(<0.01)	BDL(<0.01)
Cobalt	BDL(<0.01)	BDL(<0.01)
Depth of well from Surface (ft.)	90	85
Water level in well from Surface (ft.)	83.59	5.14

BDL: Below Detection Limit

Dec - 22

(All figures in ppm except pH)

(An ingures in ppin except pi						
Parameter	Sumer Singh Well Water	Nahar Singh Well Water				
pH	7.50	7.47				
Suspended Solids	6	13				
Lead	BDL(<0.01)	BDL(<0.01)				
Zinc	BDL(<0.01)	BDL(<0.01)				
Copper	BDL(<0.01)	BDL(<0.01)				
Iron	BDL(<0.01)	BDL(<0.01)				
Cadmium	BDL(<0.001)	BDL(<0.001)				
Nickel	BDL(<0.01)	BDL(<0.01)				
Cobalt	BDL(<0.01)	BDL(<0.01)				
Depth of well from Surface (ft.)	90	85				
Water level in well from Surface (ft.)	84.15	5.78				

BDL: Below Detection Limit

Jan	-	23
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		(All figures in nom except all)
		(All figures in ppm except pH)
Parameter	Sumer Singh Well Water	Nahar Singh Well Water
рН	7.54	7.51
Suspended Solids	22	26
Lead	BDL(<0.01)	BDL(<0.01)
Zinc	BDL(<0.01)	BDL(<0.01)
Copper	BDL(<0.01)	BDL(<0.01)
Iron	BDL(<0.01)	BDL(<0.01)
Cadmium	BDL(<0.001)	BDL(<0.001)
Nickel	BDL(<0.01)	BDL(<0.01)
Cobalt	BDL(<0.01)	BDL(<0.01)
Depth of well from Surface (ft.)	90	85
Water level in well from Surface (ft.)	81.52	5.16

BDL: Below Detection Limit

Feb – 23

(All figures in ppm except pH)

Parameter	Sumer Singh Well Water	Nahar Singh Well Water
рН	8.25	8.05
Suspended Solids	46	12
Lead	BDL(<0.01)	BDL(<0.01)
Zinc	BDL(<0.01)	BDL(<0.01)
Copper	BDL(<0.01)	BDL(<0.01)
Iron	BDL(<0.01)	BDL(<0.01)
Cadmium	BDL(<0.001)	BDL(<0.001)
Nickel	BDL(<0.01)	BDL(<0.01)
Cobalt	BDL(<0.01)	BDL(<0.01)
Depth of well from Surface (ft.)	90	85
Water level in well from Surface (ft.)	82.19	5.98

BDL: Below Detection Limit

Mar - 23

(All figures in ppm except pH) Parameter **Sumer Singh Well Water** Nahar Singh Well Water pН 7.91 7.34 **Suspended Solids** 21 16 Lead BDL(<0.01) BDL(<0.01) Zinc BDL(<0.01) BDL(<0.01) Copper BDL(<0.01) BDL(<0.01) Iron BDL(<0.01) BDL(<0.01) Cadmium BDL(<0.001) BDL(<0.001) Nickel BDL(<0.01) BDL(<0.01) Cobalt BDL(<0.01) BDL(<0.01) **Depth of well from Surface (ft.)** 90 85 Water level in well from Surface (ft.) 81.24 5.25

BDL: Below Detection Limit

	Post – Monsoon (Oct-2022)								
Parameter	Unit	K - 1	K - 2	K – 3	K – 4	K - 5	K - 6	K - 7	K - 8
pН	-	7.47	7.55	7.41	7.63	7.78	7.39	7.46	7.31
EC at 25oC	µS/cm	2680	2790	1040	1400	2520	2600	1950	1260
TDS	Hazen	1620	1660	620	832	1492	1540	1148	740
Colour	NTU	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Turbidity	mg/L	2.0	3.0	BDL	2.0	3.0	2.0	2.0	BDL
Total Alkalinity	mg as CaCO3/l	370	350	210	300	290	330	270	190
Calcium, Ca	mg as CaCO3/l	116.23	120.24	68.14	100.20	108.22	116.23	72.14	64.13
Magnesium, Mg,	mg/L	58.37	60.80	26.75	34.05	48.64	48.64	34.05	29.18
Total Hardness	mg/L	530	550	280	390	470	490	320	280
Chlorides, Cl	mg/L	549.83	564.82	159.95	174.95	509.84	529.84	274.91	249.92
Sulphate, SO4	mg/L	195	218	104	135.5	202	215.5	198.5	66.7
Nitrate, NO3	mg/L	32.10	49.50	14.60	21.80	31.20	16.70	21.50	16.30
Fluoride, F	mg/L	1.40	1.35	1.30	1.10	1.25	1.30	1.35	1.10
Iron, Fe	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead, Pb	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium, Cd	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Zinc, Zn	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper, Cu	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium, Cr+6	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel, Ni+	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Manganese, Mn	mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dissolved Oxygen	mg/L	4.1	3.8	4.3	3.8	3.9	4.4	3.8	4.2

Well No.	Oct 2022	Nov 2022	Dec 2022	Jan 2023	Feb 2023	Mar 2023
K-1	2.28	2.70	3.06	4.80	5.22	4.93
K-2	13.19	14.29	15.21	14.61	15.83	14.71
K-3	6.11	7.40	7.86	8.02	9.88	8.32
K-4	7.09	7.89	6.05	8.66	9.27	5.63
K-5	7.55	5.05	7.50	8.50	10.06	5.76
K-6	3.14	2.25	3.98	4.11	5.98	4.77
K-7	3.29	4.21	4.91	5.19	6.13	5.89
K-8	4.11	4.70	4.77	2.17	2.64	2.10

Piezometer water Quality & Level results

Dec - 22 (Taning dam)						
				(All figu	res in ppm	except pH)
Parameter	PW 1	PW 2	PW 3	PW 4	PW 5	PW 6
рН	7.36	7.51	7.59	7.85	7.44	7.92
Suspended Solids	18	23	13	10	21	8
Lead	BDL	BDL	BDL	BDL	BDL	BDL
Leau	(<0.01)	(<0.01)	(<0.01)	(<0.01)	(<0.01)	(<0.01)
Zinc	BDL (<0.01)	BDL (<0.01)	0.06	0.11	BDL (<0.01)	0.29
<u> </u>	BDL	BDL	BDL	BDL	BDL	BDL
Copper	(<0.01)	(<0.01)	(<0.01)	(<0.01)	(<0.01)	(<0.01)
Iron	0.09	0.09	0.05	BDL	0.09	BDL
11011	0.09	0.09	0.05	(<0.01)	0.09	(<0.01)
Cadmium	BDL	BDL	BDL	BDL	BDL	BDL
	(<0.001)	(<0.001)	(<0.001)	(<0.001)	(<0.001)	(<0.001)
Nickel	0.02	0.02	BDL	BDL	0.02	BDL
	0.02	0.02	(<0.01)	(<0.01)	0.02	(<0.01)
Cobalt	BDL	0.01	BDL	BDL	BDL	BDL
	(<0.01)	0.01	(<0.01)	(<0.01)	(<0.01)	(<0.01)
Depth of well from surface (ft.)	145	145	150	140	145	150
Water level in. well from surface (ft.)	2.42	3.24	5.01	6.34	1.48	19.61

Dec - 22 (Tailing dam)

Mar - 23 (Tailing dam)

(All figures in ppm except pH)						
Parameter	PW 1	PW 2	PW 3	PW 4	PW 5	PW 6
рН	7.27	7.54	7.37	7.09	7.60	7.53
Suspended Solids	17	28	16	29	25	16
Lead	BDL	BDL	BDL	BDL	BDL	BDL
Leau	(<0.01)	(<0.01)	(<0.01)	(<0.01)	(<0.01)	(<0.01)
Zinc	0.04	0.07	0.07	0.05	0.04	0.04
Connor	BDL	BDL	BDL	BDL	BDL	BDL
Copper	(<0.01)	(<0.01)	(<0.01)	(<0.01)	(<0.01)	(<0.01)
Iron	0.10	0.13	0.10	0.08	0.10	0.08
Cadmium	BDL	BDL	BDL	BDL	BDL	BDL
Caumum	(<0.001)	(<0.001)	(<0.001)	(<0.001)	(<0.001)	(<0.001)
Nickel	BDL	0.02	BDL	BDL	BDL	BDL
NICKEI	(<0.01)	0.02	(<0.01)	(<0.01)	(<0.01)	(<0.01)
Cobalt	BDL	BDL	BDL	BDL	BDL	BDL
Cobat	(<0.01)	(<0.01)	(<0.01)	(<0.01)	(<0.01)	(<0.01)
Depth of well from surface (ft.)	145	145	150	140	145	150
Water level in. well from surface (ft.)	3.15	3.39	6.12	6.12	2.56	20.92

Post – Monsoon (Oct-2022)										
Parameter	Unit	PZ - 1	PZ – 2	PZ – 3	PZ-4	PZ - 5				
pH	-	7.44	7.38	7.64	7.30	7.22				
EC at 25oC	μS/cm	2700	2150	3640	980	1550				
TDS	Hazen	1632	1260	960	580	920				
Colour	NTU	BDL	BDL	BDL	BDL	BDL				
Turbidity	mg/L	2.0	1.0	2.0	3.0	BDL				
Total Alkalinity	mg as CaCO3/l	440	250	220	140	220				
Calcium, Ca	mg as CaCO3/l	140.28	96.19	68.14	36.07	72.14				
Magnesium, Mg,	mg/L	53.50	38.91	21.89	21.89	26.75				
Total Hardness	mg/L	570	400	260	180	290				
Chlorides, Cl	mg/L	379.88	334.90	234.93	149.95	254.92				
Sulphate, SO4	mg/L	184	152	103	57.10	63.80				
Nitrate, NO3	mg/L	30.10	15.80	12.50	11.40	10.80				
Fluoride, F	mg/L	1.20	1.25	1.10	0.90	1.30				
Iron, Fe	mg/L	BDL	BDL	0.02	BDL	0.04				
Lead, Pb	mg/L	BDL	BDL	BDL	BDL	BDL				
Cadmium, Cd	mg/L	BDL	BDL	BDL	BDL	BDL				
Zinc, Zn	mg/L	BDL	BDL	BDL	BDL	BDL				
Copper, Cu	mg/L	BDL	BDL	BDL	BDL	BDL				
Chromium, Cr+6	mg/L	BDL	BDL	BDL	BDL	BDL				
Nickel, Ni+	mg/L	BDL	BDL	BDL	BDL	BDL				
Manganese, Mn	mg/L	BDL	BDL	BDL	BDL	BDL				
Dissolved Oxygen	mg/L	4.1	4.3	3.9	4.4	3.8				

PZ No.	Oct 2022	Nov 2022	Dec 2022	Jan 2023	Feb 2023	Mar 2023
Pz-1	3.92	4.18	4.95	5.91	4.21	4.80
Pz-2	collapse	collapse	collapse	collapse	collapse	collapse
Pz-3	2.70	3.77	4.19	5.29	4.05	4.46
Pz-4	3.53	3.89	3.97	5.26	2.23	2.85
Pz-5	7.50	8.02	8.31	9.62	14.20	14.35

Surface water Quality results

Dec – 22

Parameter	Mata ji Ka Khera Pond	Mehanduriya Pond	Kotdi Pond	Sunariya Kheda Pond
рН	7.03	8.40	8.40	7.49
Suspended Solids	8	7	8	11
Lead	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
Zinc	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
Copper	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
Iron	BDL (<0.01)	0.16	BDL (<0.01)	BDL (<0.01)
Cadmium	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
Nickel	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
Cobalt	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)

(All figures in ppm except pH)

Feb - 23

Parameter	Mata ji Ka Khera Pond	Mehanduriya Pond	Kotdi Pond	Sunariya Kheda Pond
pН	7.78	8.44	7.33	8.39
Suspended Solids	58	18	15	10
Lead	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
Zinc	BDL (<0.01)	0.05	BDL (<0.01)	BDL (<0.01)
Copper	0.02	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
Iron	BDL (<0.01)	0.62	BDL (<0.01)	BDL (<0.01)
Cadmium	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
Nickel	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
Cobalt	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
			(A11 f	joures in nom except nH)

(All figures in ppm except pH)

Process water Quality results

Oct - 22

Parameter	Mine Water	Tailing Dam Water	Garland Drain Water
рН	7.06	7.14	7.29
Suspended Solids	22	21	26
Lead	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
Zinc	0.94	0.36	0.42
Copper	0.15	0.04	BDL(<0.01)
Iron	0.14	0.10	0.07
Cadmium	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
Nickel	0.21	0.03	0.04
Cobalt	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)

(All figures in ppm except pH)

Nov - 22

Parameter	Mine Water	Tailing Dam Water	Garland Drain Water
рН	7.14	7.49	7.47
Suspended Solids	27	25	23
Lead	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
Zinc	1.38	0.41	0.30
Copper	0.04	0.12	0.06
Iron	0.03	0.16	0.15
Cadmium	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
Nickel	0.17	0.06	0.04
Cobalt	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)

(All figures in ppm except pH)

Dec - 22

Parameter	Mine Water	Tailing Dam Water	Garland Drain Water
рН	7.29	7.10	7.08
Suspended Solids	31	27	26
Lead	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
Zinc	1.69	1.02	1.03
Copper	0.24	0.14	0.08
Iron	0.10	0.05	0.08
Cadmium	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
Nickel	0.03	0.06	0.06
Cobalt	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)

(All figures in ppm except pH)

23

Parameter	Mine Water	Tailing Dam Water	Garland Drain Water
рН	7.07	7.07	7.19
Suspended Solids	22	28	30
Lead	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
Zinc	0.53	1.03	0.83
Copper	0.02	0.04	0.03
Iron	0.02	0.07	0.06
Cadmium	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
Nickel	0.03	0.09	0.08
Cobalt	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)

(All figures in ppm except pH)

Feb - 23

Parameter	Mine Water	Tailing Dam Water	Garland Drain Water
pH	7.07	7.34	7.52
Suspended Solids	26	25	31
Lead	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
Zinc	1.45	0.42	0.27
Copper	0.11	0.09	0.13
Iron	0.05	0.07	0.10
Cadmium	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
Nickel	0.10	0.07	0.06
Cobalt	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)

(All figures in ppm except pH)

Mar	-	23
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Parameter	Mine Water	Tailing Dam Water	Garland Drain Water
рН	7.19	7.20	7.46
Suspended Solids	22	32	28
Lead	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
Zinc	1.74	0.83	0.25
Copper	0.17	0.06	0.06
Iron	0.03	0.06	0.06
Cadmium	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
Nickel	BDL(<0.01)	0.03	0.02
Cobalt	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)

(All figures in ppm except pH)

Average Ambient Noise Monitoring Results

Oct- 22				
Name of Monitoring Station	Day Level in dB	Night Level in dB		
Near Laboratory	51.2	61.2		
Near DG Set	50.2	59.6		
Near AB - Type Quarter	47.1	56.2		

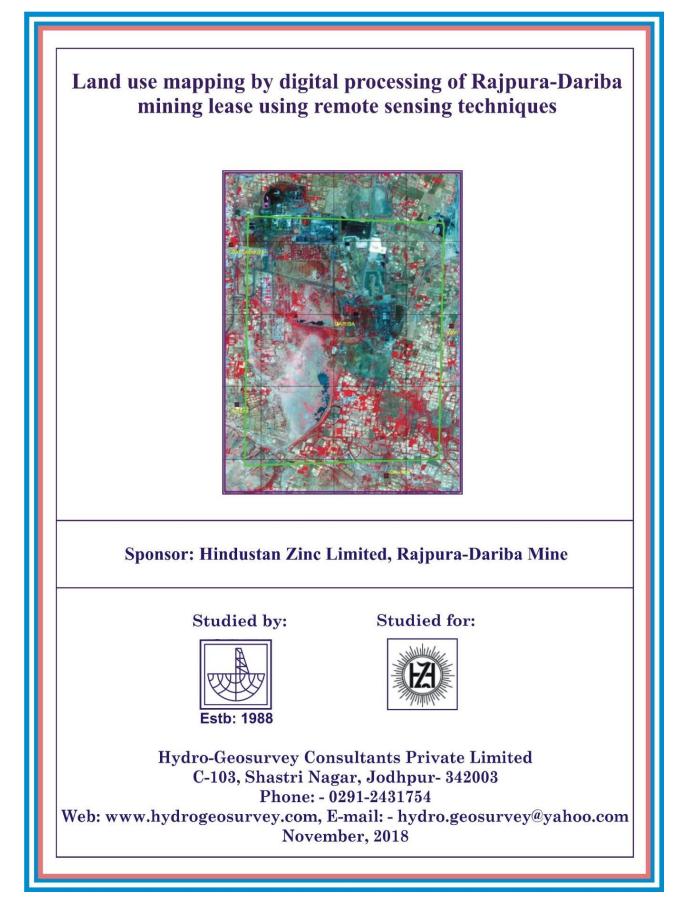
Nov - 22				
Name of Monitoring Station	Day Level in dB	Night Level in dB		
Near Laboratory	52.8	61.2		
Near DG Set	58.3	65.6		
Near AB - Type Quarter	55.3	64.8		

Dec - 22				
Name of Monitoring Station	Day Level in dB	Night Level in dB		
Near Canteen	58.7	50.4		
Near AD Block	63.8	55.7		
Near Mine Office Building	59.6	50.4		

Jan - 23				
Name of Monitoring Station	Day Level in dB	Night Level in dB		
Near Laboratory	63.8	55.7		
Near DG Set	67.9	58.7		
Near AB - Type Quarter	60.1	51.5		

Feb - 23				
Name of Monitoring Station	Day Level in dB	Night Level in dB		
Near Laboratory	59.7	50.3		
Near DG Set	65.6	54.2		
Near AB - Type Quarter	61.8	53.7		

Mar - 23				
Name of Monitoring Station	Day Level in dB	Night Level in dB		
Near Laboratory	60.8	51.6		
Near DG Set	58.6	50.2		
Near AB - Type Quarter	52.9	44.2		



Focus Area	Initiative	Program details	Y1- FY 21	Y1 Ach.	Y2-FY 22	Y2 Ach.	Y3- FY23	Y3 Ach.
Health, Hygien e & Water	Renovation and upgradation of Govt. Hospital (CHC Mahenduriya)	Construction of additional wards, toilets, garden, mortuary, lighting, etc.	100			70.00 CHC 600.00 COVID support		
	Installation of High Capacity Community RO in 4 surrounding villages	1500 Lts. Per hr capacity, auto TDS, real time data, 5000 storage, SS tank mounted vehicle to mobile ATM and water transfer. 24 * 7 chilled water supply – Railmagra 2 nos., Sindesar kalan, Gawardih,	100	100	100	100		
	Construction of overhead tank and pipe line in village for uninterrupted water supply	20,000 Lts. Overhead tank at Kothdi (SK and Anoppura)	100	Proposal changed to pipeline supp by govt		15		
Educat ion	Holistic development of 3	Additional classrooms, separate toilets, lab,		80		88.5		83.5
	government schools.	computer classes, boundary wall & field development at Kotdi, Adjoining village mahenduriya, dariba, sindesar kalan, DAV & Shivpura	50	Mahendu riya & Dariba	50	Shivpura, Sindesar kalan ,DA Vand kotdi	50	Rajpura Kheda, Railamagra, Mata ji ka khera, Kotdi, Banjaro ka Kheda
	Renovation of 20 old Anganwadis	Repair & maintenance work, painting, roof treatment, boundary, electricity, etc.			100	210 (59 Angnwadi)	100	
Infrastr ucture Develo pment	Construction of Check Dam	Construction of check dam at Pipawas	100	28	20	20 (SK makanpuri ya)		
1	Community centers	At Naya Dariba, Anjana, Mahenduriya . Shivpura, Makanpuriya,Rajpura,An oppura	120			116.74		
	Construction of stadium & playgrounds	Kabra & Gawardih, Mahenduriya, Rajpura			80	78.35		
	Solar Light	300 lights in surrounding 10 villages (200 lights in 20 villages)	100	21.83	150	32.13	100	20.25
	Solar pump water systems	10 HP motor with Solar panels in 5 surrounding villages						
Total			670	229.83	480	1330.7	250	103.75

Annexure-11

कार्यालय अतिरिक्त प्रधान मुख्य वन संरक्षक एवं मुख्य वन्य जीव प्रतिपालक. अरण्य भवन, झालाना संस्थानिक क्षेत्र, राजस्थान जयपुर 1981 ई-मेलः cwlw.raj@gmail.com फोन नम्बर: 0141-2700151 दिनांक: 16.09.20 क्रमांक : एफ 11(676)विकास—II / मुवजीप्र / 2019–20 / 15 ा निमित्त, मैसर्स यूनिट हेड ŵ हिन्दुस्तान जिंक लि0, राजपुरा दरीबा माईन्स, जिला राजसमन्द। ११४३।3211 विषय :- Conservation Plan for Buffer Zone (10 KM radious) of Rajpura Dariba Mines of M/s Unit Head, Hindustan Zinc Ltd. located at tehsil Railmagra District Rajsamand Rajasthan (ML No. 166/2008 area 1141.2106 Ha) final approval regarding. पर्यावरण वन मंत्रालय के पत्र क्रमांक J-11015/84/2018-1A.11(M) dated सन्दर्भ:--13.04.2020 एवं मुख्य वन संरक्षक(वन्यजीव) उदयपुर के पत्रांक 4575 दिनांक 18. 11.2019 व उप वन संरक्षक(वन्यजीव) राजसमन्द के पत्रांक 1294 दिनांक 25.02. 2020. महोदय, उपरोक्त विषयान्तर्गत सन्दर्भित पत्र के क्रम में लेख है कि इस कार्यालय के पत्र क्रमांक 9491 दिनांक 09.12.2019 द्वारा वाईल्डलाईफ कजंवेंशन प्लान के सम्बन्ध में मैसर्स यूनिट हेड हिन्दुस्तान जिंक लि०, राजपुरा दरीबा माईन्स, जिला राजसमन्द द्वारा पालना प्रस्तुत की गई है। चूँकि इस कार्यालय द्वारा जारी पत्रांक 6451–6463 दिनांक 24.05.2019 में उल्लेखित सभी दिशा निर्देशों व शर्तों की पालना की जा चुकी है तथा प्रस्तावित कजंवेंशन प्लान, नक्शा एवं परियोजना क्षेत्र में पाये जाने वाले वनस्पति एवं वन्यजीवों की सूची उप वन संरक्षक द्वारा प्रमाणित व मुख्य वन संरक्षक द्वारा अग्रेषित कर प्रस्तुत की जा चुकी है। अतः पर्यावरण एवं जलवायु परिवर्तन मंत्रालय केन्द्र सरकार के पत्रांक J-11015/84/2018-IA.11(M) दिनांक 13.04.2020 के बिन्दु संख्या 10 और 11 के पालना मे इस कार्यालय द्वारा वन्यजीव संरक्षण योजना (WCP) की स्वीकृती जारी की जाती है :-- (i) यदि परियोजना लागत में कोई वृद्धि होती है तो तदनुसार वन्यजीव संरक्षक योजना में भी वृद्धि की जाकर, अपेक्षित राशि वन्यजीव प्रभाग में जमा कराई जावे। (ii) केंद्र सरकार द्वारा जारी संदर्भित आदेशों के अनुरूप इस योजना के कियान्वयन का प्रबोधन किया जावे। साथ ही संलग्न मैप को भी उप वन संरक्षक के अभिशंषा अनुसार प्रमाणित किया जाता है। संलग्न : 1. नक्शा, 2. एनेक्सर-1, 3. Wildlife Conservation Plan की प्रति, भवदीय. (अरिन्दम तोमर) अति० प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक, राजस्थान, जयपुर कमांकः एफ ११(६७६)विकास/मुवजीप्र/२०१८–१९/ दिनांक : प्रतिलिपि निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :--1. मुख्य वन संरक्षक (वन्यजीव) उदयपुर। 2. उप वन संरक्षक (वन्यजीव) राजसमन्द। अति० प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक, राजस्थान, जयपुर

पाँच सो रुपये Rs. 500 INDIA NON JUDICIAL

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कायालय

राजस्थान RAJASTHAN

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जिला-राजसमन्द (रान.)

Memorandum of Understanding Between Hindustan Zinc. Ltd. (HZL) & Forest Department Rajsamand For

Implementation of Wildlife Conservation Plan consequent to expansion of lead-Zinc ore underground mine from 1.08 million TPA to 2.0 Million TPA (Total excavation 2.48 million TPA) & Lead Zinc ore Beneficiation from 1.2 to 2.5 million TPA at Rajpura Dariba Mines of M/s Hindustan Zinc Ltd. Located at Tehsil Railmagra, District Rajsamand, Rajasthan (ML, No. 166/2008 Area 1142.2106 ha.).

Date - 24.02.2023 Place - Rajsamand

उप वन संरक्षक वन्य जीव राजसमन्द

200

FIVE HUNDRED RUPEES

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