INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Ajmer regional office

	Mine	file No : RAJ/AJM-315/	Pb	Zn-1 Mine code : 34RAJ01001
	(i)	Name of the Inspecting Officer and ID No.	:	PQ22) PANKAJ KULSHRESTHA
	(ii)	Designation	:	Assistant Controller Mine
	(iii)	Accompaning mine Official with Designation	:	Shri Siyaram Meena, Manager & Shri Vijendra Kashyap,
	(iv)	Date of Inspection	:	08/04/2024
	(v)	Prev.inspection date	:	01/11/2019
		PAF	۲ ۲ -	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	KAYAR
	(b)	Registration NO.	:	IBM/421/2011
	(c) (d)	Category Type of Working	:	A Fully Mechanised Underground
	(e) (f) (g)	Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone Police Station First opening date	: : : : : : : : :	Nirmalendu.Kumar@vedanta.co
	(h)	Weekly day of rest	:	SUN
2.		ess for espondance	:	M/S Hindustan Zinc Limited Kayad Lead -Zinc Mine Village: Kayad, Dist & Teshil : Ajmer
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	
4.	Mine	ral worked	:	LEAD & ZINC ORE Main

03/11/2017 06/09/2019

-		+ 1a -	
5.	Name and Address of		
	Lessee	:	HINDUSTAN ZINC LTD.
			HINDUSTAN ZINC LTD. YASHAD BHAWAN YASHADGARH, UDAIPUR
			UDAIPUR RAJASTHAN
			Phone:01483-23331, 23332
			FAX :01483-23073
	Owner	:	Sunil Duggal
			Hindustan Zinc Limited
			Yashad Bhawan, Swaroop
			Sagar Udaipur BHILWARA RAJASTHAN
			Phone: 0294-2529182
			FAX : 0294-2525765
	Agent	:	Mr. Balwant Singh Rathore
			Kayad Lead -Zinc Mine
			Village: Kayad Dist &
			Teshil : Ajmer AJMER RAJASTHAN
			Phone: 0145-6626231
			FAX :
	Mining Enginee	r	
	Name	:	Chinni Ravi Tej,Full Time
	Qualification	:	
	Appointment/	:	15/09/2022
	Termination da	te	
	Geologist		
	Name	:	Vijendra Kashyap,Full Time
	Qualification	:	MSC Geology
	Appointment/ Termination da		12/06/2018
	Manager	:	Maniah Maghual
	Name	:	Manish Meghwal BE Mining
	Qualification	•	5
	Appointment/ Termination da	te	01/07/2024
	_		
6.	Date of approval of Plan/Scheme of Minin		ing : Modif.of approved Mining Plan 05/12/2006 Modif.of approved Mining Plan 07/05/2013
	FIAN, SCHEME OF MININ	9	MP modif under MCR 1960 20/05/2016
			MP modif under 17(3) MCR 2016 18/10/2016
			MP modif under $17(3)$ MCP 2016 $03/11/2017$

MP modif under 17(3) MCR 2016 MP modif under 17(3) MCR 2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	Nil	Nil	
lb	Exploration over lease area for geological axis 1 or 2	Underground+S urface No. of BH: 190No. Meterage:5500 0 meter Grid:25mX12.5 m Depth(mRL):50	Underground+Surface No. of BH: 138 No. Meterage:66223 m	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	The exploration is be done by HZL. Drilling agency is MAPL ,Plot 110, Main Dhemo, Besic Railway Siding, P.O. Sitarampur-713359, Asansol, West Bardhama West Bengal, INDIA.	No de
1d	Balance area to be explored to bring Geological axis in 1 or 2	156 Ha	134.64 Ha	
le	Balance reserve as on 01/04/20	Reserve- 1396258MT Resources- 5048993MT Total-6445251 As per approved MP dated 27/01/2023	Reserve-1396258MT Resources-5048993MT Total-6445251 As per approved MP da 27/01/2023	ted
lf	General remarks of inspecting officers on geology, exploration etc	NA	The overall status of geology and exploration may be considered as satisfactory.	on

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block-3 Main Lens ,Sland K18 NE decline	Block-3 Main Lens and K18 NE Decline	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	Not applicable
2c	Stripping ratio or ore to OB ratio	NA	Not applicable
2d	Quantity of topsoil generation in m3	NA	Not applicable
2e	Quantity of overburden generation in m3	NA	Not applicable
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The development of deposit may be considered as satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	NA	Not applicable as it is a U/g mine.	
3b	Quantity of ROM mineral production proposed	600499MT	564113MT	
3c	Recovery of sailable/usable mineral from ROM production	NA	Not applicable	
3d	Quantity of mineral reject generation	NA	Not applicable	
3e	Grade of mineral rejects generation and threshold value declared.	NA	Nil	
3f	Quantity of sub grade mineral generation.	NA	Not applicable	
3g	Grade of sub grade mineral generation	NA	Not applicable	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Not applicable
3j	Provision of drilling and blasting in mineral benches	Nil	Nil, U/g mine
3k	Provision of mining machineries in mineral benches	Nil	Nil, U/g mine
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	Not applicable
3m	Total area covered under excavation/pits	Not applicable	Not applicable
3n	Ore to OB ratio for the pit/mine during the year.	NA	Not applicable, U/g mine
30	Total area put in use under different heads at the end of year	NA	Not applicable, U/g mine.
3р	Production of ROM mineral during the last five year period as applicable	2019-20- 1200000 T 2020-21- 1200000 T 2021-22- 1200000 T 2022-23- 748456 T 2023-24 600499 T	2019-20- 2020-21- 2021-22- 2022-23 2022-23 2023-24 1174824 T 931951 T 2022-23 564113 T
3q	General remarks of inspecting officers on method of mining etc.	na	The overall status of U/g mining may be considered as satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil - NIL OB- NIL Waste Dump-1	Top soil - NIL OB- NIL Waste Dump-1	
4b	Location of topsoil, OB and mineral reject dumps	OB - Nil	Top soil - NA OB - Nil Mineral Reject dump - Nil	
4c	Number of dumps within lease area and outside of lease area	Inside lease Area Waste Dump-1 Ore Dump-1	Inside lease Area Waste Dump-1 Ore Dump-1	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Point Easting Northing 1 1403.8 10363.7 2 1416 10222 3 1557 10247.7 4 1535 10389	Point Easting Northing 1 1403.8 10363.7 2 1416 10222 3 1557 10247.7 4 1535 10389	
4e	Number of active and alive dumps.		Waste Dump-1 Ore Dump-1	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	NA	The overall status of waste dump management may be considered as satisfactory.	

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks

5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NA	NA, U/g mine
5b	Area under backfilling of mined out area	NA	Not applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	Not applicable as it is a U/g mine.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Yes submitted	
6b	Area available for rehabilitation (ha) .	1 ha.	1 ha.	No additional area available for plantation and only Gap Filling plantation
бс	afforestation done (ha).	1 ha.	1 ha.	
6d	No. of saplings planted during the year	1500 nos.	1500 nos.	
бе	Cumulative no .of plants	46100 nos.	50600 nos.	
6f	Any other method of rehabilitation	Nil	Nil	
бg	Cost incurred on watch and care during the year	NA	Rs. 390000	

<i>c</i> 1				
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NA	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1500 No.	Inside Lease: filling)	1500 (Gap
бn	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1 ha.	1 Ha.	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	

Yes, Testing is being Compliance of бр Yes, Air, environmental Noise, done as per proposal. monitoring (core vibration and zone and buffer water quality zone) testing to be done quarterly in proposed location. бq General remarks NA The overall status of of inspecting PMCP compliance and officers on PMCP progressive closure compliance and operations may be considered as progressive satisfactory. closure operations etc.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	All ROM dispatched above Cutoff for further processing to RA Mine.	All ROM dispatched above Cutoff for further processing to Rampura Agucha	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Nil - All ore dispatch for processing	As above, all ore dispatched for processing	
7c	Different grade of mineral sorted out at mines.	NA	Not applicable	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The present status of mineral conservation and benificiation may be considered as satisfactory.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks

8a Separate removal Nil Nil and utilization of topsoil (Rule 32) Concurrent use 8b Nil Nil or storage of topsoil 8c Separate dumps OB-NIL OB-NIL for overburden, Waste Dump-1 Waste Dump-1 waste rock, Reject-NIL Reject-NIL rejects and fines (Rule 33) 8d Use of Waste Produced Waste Produced is overburden, is backfilled backfilled in waste rock, in underground. rejects and underground. fines dumps for restoring the land to its original use 8e Phased NA NA restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) 8f Baseline 1500 Nos. of 1500 Nos. of saplings information on saplings existence of plantation and additional plantation done (Rule 41) 8q Survival rate 90% 90% survival 8h Water sprinkling Water Yes, Water sprinkling on on roads to sprinkling on roads is being done. control airborne roads. dust 8i General remarks The overall status of NA of inspecting aestheti beauty in and officer on around mines area may be aesthetic beauty considered as in and around satisfactory. mines area

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks

9a	Status of submission of Monthly and Annual returns	Yes	Yes, submitted regularly
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	MIning Engineer : Shri Chinni Ravi Tej Geologist : Shri Vijendra Kashyap Manager : Shri Siyaram Meena	As above
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	abandoned by opencast (O-C) mining : 0	As above
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year : 1500 with survival rate 90% Total no. of trees at the end of the year : 50600	As above

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	generation as	No reject generation, entire ROM is sent for further processing.
9f	Scrutiny of Annual return on ROM stock and/or graded ore		As above
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	produced	As above
9h	Scrutiny of Annual return on fixed assets		Seems to be correct.

9k	Scrutiny of Annual return on mining machineries	DUMPER (65.000t) -5 , DUMPER (60T) -1 , DUMPER (60T) -1 , DUMPER (30t) -4 , LOAD HAUL DUMPER (9.4) -2 , LOAD HAUL DUMPER (10.7) -4 , BLAST HOLE DRILL (ELEC.)(102) -2 , ROCK DRILL (ELEC.)(102) -2 , ROCK DRILL (ELEC.)(45) -9 , EXPLOSIVE VAN 5t -2 , VENTILATION FAN 70 cum/h- 3, GENERATOR (DIESEL) 1000 KWH -1 , PUMPS (ELEC.) 1600L/Min -4 , WINDING ENGINE (ELEC.) 360kg -1 , OTHER HEM MACHINERY -15 , AIR COMPRESSOR 12 cum/min -1 , MOTOR GRADER 100 HP -1	
----	--	---	--

Details of violations observed during current inspection and compliance position of violation pointed out					
	Violatior	n observed	Show couse position		
Rule N	ю.	Issued on	Compliance on	Rule NO.	Issued on Compliance on
MCDR17	Rule 11(1)	12/04/2024	05/06/2024		

Date :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines