INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/UDP/PB-ZN ORE-1

Mine code	:	34RAJ26002
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(i)	Name of the Inspecting Officer and ID No.	:	SQ12) H C SHARMA
(ii)	Designation	:	Assistant Controller Mine
(iii)	Accompaning mine Official with Designation	:	Sh. Sandeep Rajput

- (iv) Date of Inspection : 25-JUL-19
- (v) Prev.inspection date : 13-FEB-19

PART-I : GENERAL INFORMATION

1.	(a)	Mine Name	: MOCHIA	
	(b)	Registration NO.	: IBM/421/2011	
	(c)	Category	: A Mechanised	
	(d) (e)	Type of Working Postal address	: Underground	
		State	: RAJASTHAN	
		District	: UDAIPUR	
		Village	: ZAWAR	
		Taluka	: SARDA/GIRWA	
		Post office	: ZAWAR MINES	
		Pin Code	: 313901	
		FAX No.	: 0294-2412545	
		E-mail	: arun.mishra@vedanta.co.in	
		Phone	: 0294-6604120	
	(f)	Police Station	: Zawar	
	(g)	First opening date	: 01-APR-55	
	(h)	Weekly day of rest	: MON	
2.		ess for espondance	: VILLAGE-ZAWAR DISTT-UDAIPUR	
3.	(a)	Lease Number	: RAJ1725	
	(b)	Lease area	: 816	
	(c)	Period of lease	: 80	
	(d)	Date of Expiry	: 31-MAR-30	
4.	Mine	ral worked	: LEAD & ZINC ORE M	lain

5.	Name	and Address of Lessee	the :	Hindustan Zinc Ltd Yashad Bhavan Udaipur UDAIPUR RAJASTHAN Phone: FAX :	
		Owner	:	Sri Arun Mishra Yashad Bhavan, Udaipur Rajasthan UDAIPUR RAJASTHAN Phone: FAX : 0294-2412545	
		Agent	:	Shri Kishore S Mochia Pb_zn Mine, Post: Zawar, Udaipur Rajasthan UDAIPUR RAJASTHAN Phone: FAX : 0294-2412545	
		Mining Enginee	r		
		Name	:	Shri Balamurugan P,Full Time	
		Qualification	:	BE Mining	
		Appointment/ Termination da	: te	07-DEC-16	
		Geologist			
		Name	:	Sri Vivake Tyagi,Full Time	
		Qualification	:	M.Sc. Geology	
		Appointment/ Termination da	: te	15-DEC-17	
		Manager			
		Name	:	Sri Sanat Kumar	
		Qualification	:	B.E. Mining	
		Appointment/ Termination da	: te	01-DEC-20	
6.		of approval of Scheme of Minin		ng : Mining Scheme rule 12 MCDR1988 MP modif under 17(3) MCR 2016	01-JUL-02 17-MAY-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	Nil	Nil at surface	
1b	Exploration over lease area for geological axis 1 or 2	hole 385	27640.45m, No of h 336	lole
1c	Exploration Agencies and Expenditure in lakh rupees during the year	EFMCPL- 225, HRREC-79 TDMA-72	EFMCPL-256.24824 HRREC-85.41913 TDMA-78.44	
ld	Balance area to be explored to bring Geological axis in 1 or 2	3.58 ha	1.63 ha	
le	Balance reserve as on 01/04/20	111-1.072 MT 121-3.631 MT 122-1.262 MT 221-6.878 MT 222-1.257 MT 333-28.417 MT	111-1.072 MT 121-3.631 MT 122-1.262 MT 221-6.878 MT 222-1.257 MT 333-28.417 MT	
lf	General remarks of inspecting officers on geology, exploration etc	Not applicable	The violation of r (1) had been issue drilling less no o holes during previ inspection of mi dated 13/2/2019, a undersigned also a to it.	nd for ous ne .nd

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	9000 m	A Total of 8881 m had been developed during 2018-19.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	as it is U/G	Not applicable as it is U/G mine.	
2c	Stripping ratio or ore to OB ratio	Not applicable as it is U/G mine.	Not applicable as it is U/G mine.	

2d	Quantity of topsoil generation in m3	as it is U/G	Not applicable as it is U/G mine.
2e	Quantity of overburden generation in m3	as it is U/G	Not applicable as it is U/G mine.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The U/G mechanized method had been adopted for carrying out mining operations in the lease area which is best suited to the type of deposit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Not applicable as it is U/G mine.	Not applicable	
3b	Quantity of ROM mineral production proposed	950000 Т	949994 T during 2018-19.	
3с	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Whole ROM is beneficiated & reject is in the form of Tailing reject.	
3е	Grade of mineral rejects generation and threshold value declared.	Not proposed.	Pb 0.26%, Zn - 0.87%.	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Froth floatation method	Froth floatation method	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable
3j	Provision of drilling and blasting in mineral benches	Not applicable	It is U/G mine & drilling & blasting at Faces & in Sttoping carried out
3k	Provision of mining machineries in mineral benches	Not applicable	Not applicable
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not applicable as it is U/G mine	Not applicable
3m	Total area covered under excavation/pits	No proposal as being U/G mine	Not applicable
3n	Ore to OB ratio for the pit/mine during the year.	Not applicable	Not applicable
30	Total area put in use under different heads at the end of year	Mining-34.09 ha, Mineral storage-2ha, Ben. Plant- 8.66 ha,Township- 34.3 ha, Tailing pond- 119.52 ha, Roads-9.68 ha, Infrastructure -53.66 ha, Waste dump- 10.57 ha, Total-299.59 ha.	Mining-34.09 ha, Mineral storage-2ha, Ben. Plant- 8.66 ha, Township-34.3 ha, Tailing pond-119.52 ha, Roads-9.68 ha, Infrastructure-53.66 ha, Waste dump-10.57 ha, Total-299.59 ha.
3p	Production of ROM mineral during the last five year period as applicable	16 335000T,	2014-15 275010 T, 2015- 16 303315T, 2016-17 407800T, 2017-18 625169T, 2018-19 949994 T

3q General remarks Not applicable The method of mining is of inspecting suitable to the type of officers on deposit. method of mining etc.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not applicable as it is U/G mine, however dumping proposals of waste given.	Not applicable as it i U/G mine, however dumping proposals of waste given.	S
4b	Location of topsoil, OB and mineral reject dumps	Not applicable	Not applicable as it i U/G mine	S
4c	Number of dumps within lease area and outside of lease area	as it is U/G	Not applicable as it i U/G mine	S
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable as it is U/G mine	Not applicable as it i U/G mine	S
4e	Number of active and alive dumps.	Not applicable	Not applicable	
4f	Number of dead dumps.	Not applicable	Not applicable	
4g	Number of dumps established.	Not applicable	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Not applicable	
4j	Number of settling ponds	No proposal	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	Not applicable	The waste dumping has been carried out as pe proposals.	r

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not applicable as it is U/G Mine	Not applicable as it is U/G Mine	
5b	Area under backfilling of mined out area	Not applicable as it is U/G Mine	Not applicable as it is U/G Mine	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable as it is U/G Mine	Not applicable as it is U/G Mine	
5d	Total area fully reclaimed and rehabilitated	Not applicable as it is U/G Mine	Not applicable as it is U/G Mine	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	Being Under ground mine there are no proposals of bacfilling.	

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).	Yeas as per rule.	Submitted	
6b	Area available for rehabilitation (ha) .	Not applicable as it is U/G Mine	Not applicable as it is U/G Mine	
бс	afforestation done (ha).	4 ha for entire zawar group mines	75 ha for entire zawar group mines during 2018- 19.	
6d	No. of saplings planted during the year	4000 nos in entire zawar group mines.	25000 nos in entire zawar group mines	
бе	Cumulative no .of plants	Not specified	425625 nos	
6f	Any other method of rehabilitation	No proposal	Not applicable	
бд	Cost incurred on watch and care during the year	No proposal	705422/- Rs.	

6h Compliance on No proposal Not applicable reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx ВхD 6i Compliance on 80556 (m3) 71500 (m3) reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings бj Compliance on Not applicable Not applicable reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area 6k Compliance on Not applicable Not applicable reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir 61 Compliance on Not applicable Not applicable reclamation and rehabilitation by backfilling (v)any other specific means. Compliance of 4000 no of 25000 nos of plants in бm rehabilitation plants entire zawar group of of waste land mines during 2018-19. within lease (i)afforestation бn Compliance of Not applicable Not applicable as it is as it is U/G rehabilitation U/G mine. of waste land mine. within lease (ii)Area rehabilitation (ha) 60 Compliance of Not applicable Not applicable as it is rehabilitation as it is U/G U/G mine. of waste land mine. within lease (iii)Method of rehabilitation

бр	Compliance of environmental monitoring (core zone and buffer zone)	per MOEF	Regular monitoing carried out.
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	PMCP compliance is satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	being	All ROM ore is being transported to Ore beneficiation plant located within lease area	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Not applicable	Not applicable	
7c	Different grade of mineral sorted out at mines.	Not applicable	Not applicable	
7d	Any beneficiation process at mines	Yes	Beneficiation plant located within lease area.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	All ROM ore is being transported to Ore beneficiation plant located within lease area, there is no subgrade mineral generation.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks

8a	Separate removal and utilization of topsoil (Rule 32)	there is no	Not applicable
8b	Concurrent use or storage of topsoil	Not applicable	Not applicable
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not applicable	Not applicable
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not applicable	Not applicable
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No specified proposals made.	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Base line 372425 nos, Plants addition 8000 nos	Current Cumulative 425625 nos, Actual Addition 53200 nos
8g	Survival rate	80 %	80%
8h	Water sprinkling on roads to control airborne dust	sprinkling by	Water sprinkling by tanker
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthatic beauty in & around the mine is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks

9a	Status of submission of	Not applicable	M.R. submitted up to July 2019
	Monthly and Annual returns		A.R. Submitted for 2018- 19
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Eng Balamurgan P. Geologist- Vivek Tyagi, Manager-Sh. Radheshyam Deharia	Mining EngBalamurgan P. Geologist- Vivek Tyagi, Manager-Sh. Radheshyam Deharia
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Mining-34.09 ha, Mineral storage-2 ha, Ben. Plant-8.66 ha, Township- 34.3 ha,Tailing pond- 119.52 ha, Roads-9.68 ha, Infrastructure-53.66 ha, Waste dump-10.57 ha
9d	Scrutiny of Annual return on afforestation	Afforestation done- 75 Ha (Gap Filling) No. of Saplings- 25000	Afforestation done- 75 Ha (Gap Filling) No. of Saplings- 25000
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	945365 MT Grade- Pb-0.45% Zn- 0.55%	945365 MT Grade- Pb-0.45% Zn- 0.55%
9f	Scrutiny of Annual return on ROM stock and/or graded ore		949994 T production, Closing stock- 1251 MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex mine price & production cost given.	Found O. K.
9h	Scrutiny of Annual return on fixed assets		The net assets had been stated as 11255008491 Rs., which appears genuine.

9k Scrutiny of Details Found O. K. Annual return on furnished mining machineries

Details of violations observed during current inspection and compliance position of violation pointed out				
Viola	tion observed	Show couse position		
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on	

Date :

(H C SHARMA)

Indian Bureau of Mines