

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** RAJ/RJS/LEAD-ZINC-COPPER-1

**Mine code :** 34RAJ27001

- (i) Name of the Inspecting : **S012** ) **H C SHARMA**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sh. Shashi Bhushan Shukla, Geologist  
Official with  
Designation
- (iv) Date of Inspection : 13/02/2018
- (v) Prev.inspection date : 23/07/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **RAJPURA DARIBA**
- (b) **Registration NO.** : **IBM/421/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Underground
- (e) Postal address
- State : RAJASTHAN
- District : RAJSAMAND
- Village : DARIBA
- Taluka : RAILMAGRA
- Post office : DARIBA
- Pin Code : 313211
- FAX No. : 02952-65143
- E-mail : akhilesh.joshi@vedanta.co.:
- Phone : 0294-2421420
- (f) Police Station :
- (g) First opening date : 28/12/1970
- (h) Weekly day of rest : SUN
2. Address for : RAJPURA-DARIBA  
correspondance : DISTRICT-RAJSAMAND(RAJ.)  
PIN-313211
3. (a) Lease Number : RAJ0654
- (b) Lease area : 1142.2
- (c) Period of lease : 20
- (d) Date of Expiry : 29/05/2030
4. Mineral worked : COPPER ORE Associated  
LEAD & ZINC ORE Main

## 5. Name and Address of the

Lessee : Hindustan Zinc Ltd  
 Yashad Bhavan Udaipur  
 UDAIPUR RAJASTHAN  
 Phone:  
 FAX :

Owner : SUNIL DUGGAL  
 YASHAD BHAWAN UDAIPUR  
 UDAIPUR RAJASTHAN  
 Phone: 0294-6604120  
 FAX : 0294-6604120

Agent : Sanjay Khator  
 Rajpura Dariba Mines  
 Tehsil- Railmagra Rajsamand  
 UDAIPUR RAJASTHAN  
 Phone:  
 FAX :

## Geologist

Name : Shashi Bhusan Shukla, Full Time  
 Qualification : MSc Geology  
 Appointment/ : 16/02/2014  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	12/12/2000
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	19/08/2005
	:	Renewal under rule 22 MCR1960	26/05/2009
	:	Modif. approved Mining Scheme	26/05/2009
	:	Modif. of approved Mining Plan	19/10/2012
	:	Mining Scheme rule 12 MCDR1988	22/07/2015
	:	MP modif under 17(3) MCR 2016	26/09/2017
	:	MP review under 17(1) MCR 2016	23/01/2018

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	U/G - 5500m, Surface 10000m	U/G- 5373m, Surface- 10228 m	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Hindustan Zinc Ltd. & transnational Drilling & Mining Associates Pvt Ltd.	Hindustan Zinc Ltd. & transnational Drilling & Mining Associates Pvt Ltd.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	Not applicable	
1e	Balance reserve as on 01/04/20	8.99 million tones	8.99 million tones	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The lessee's conduct towards mineral exploration was satisfactory.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It is U/G Mine.	Not applicable	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not applicable	Not applicable	
2c	Stripping ratio or ore to OB ratio	Not applicable	Not applicable	
2d	Quantity of topsoil generation in m3	Not applicable	Not applicable	
2e	Quantity of overburden generation in m3	Not applicable	Not applicable	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	IT is U/G mine, which is suitable to the type of deposit.
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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	It is U/G mine.	Not applicable	
3b	Quantity of ROM mineral production proposed	950000 T	745532 T	
3c	Recovery of sailable/usable mineral from ROM production	Not specified	Not applicable	
3d	Quantity of mineral reject generation	No proposal	646489 T	
3e	Grade of mineral rejects generation and threshold value declared.	Not specified	Pb%- 0.26, Zn % 0.81	
3f	Quantity of sub grade mineral generation.	No proposal	Not applicable	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Froth flotation	Being done	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	Not applicable	
3j	Provision of drilling and blasting in mineral benches	Not applicable	Not applicable	

3k	Provision of mining machineries in mineral benches	Not applicable	Not applicable
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not applicable	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.	Not applicable	Not applicable
3o	Total area put in use under different heads at the end of year	Not applicable	Not applicable
3p	Production of ROM mineral during the last five year period as applicable	2016-17-- 950000T	2016-17-- 745532 T, 2015-16-- 668852 T, 2014-15-- 573284T, 2013- 14-- 610242 T, 2012-13-- 554354 T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The U/G mining method has been adopted to work the mineral which is suitable to the type of deposit.

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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	Not applicable	
4b	Location of topsoil, OB and mineral reject dumps	Not applicable	Not applicable	
4c	Number of dumps within lease area and outside of lease area	Not applicable	Not applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Not applicable	

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.	Not applicable	Not applicable
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable
4j	Number of settling ponds	Not applicable	Not applicable
4k	Specific comments of inspecting officer on waste dump management	Not applicable	It is U/G mine & waste management is not applicable

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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.	Not applicable	Not applicable	
5b	Area under backfilling of mined out area	Not applicable	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable	Not applicable	
5d	Total area fully reclaimed and rehabilitated	Not applicable	Not applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	It is U/G Mine & backfilling is not applicable.	

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## Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Submitted	
6b	Area available for rehabilitation (ha) .	Not applicable	Not applicable	
6c	afforestation done (ha).	Not specified	4 ha	
6d	No. of saplings planted during the year	No proposal	6000 nos	
6e	Cumulative no .of plants	Not specified	190000 nos.	
6f	Any other method of rehabilitation	Not applicable	Not applicable	
6g	Cost incurred on watch and care during the year	10 Lakh Rs.	21.23 lakh Rs.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not applicable	Not applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable	Not applicable	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Not applicable	Not applicable	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable	Not applicable	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not applicable	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	AS per EC & CC from MOEF & SPCB.	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	It is U/G mine & lessee's conduct towards implementation of PMCP was satisfactory.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not applicable	Not applicable	
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	Not applicable	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	It is U/G mine & lessee's efforts towards conservation of mineral were satisfactory.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not applicable	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)	Not applicable	Not applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200 ha under plantation	200 ha under plantation	
8g	Survival rate	85%	85%	

8h	Water sprinkling on roads to control airborne dust	Yes	being done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The aesthetic beauty of the area was satisfactory.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	The M/R have been submitted Upto Feb 2018. The A/R submitted for the year 2016-17.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given	Found OK	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	Found OK	
9d	Scrutiny of Annual return on afforestation	Details given	Found OK	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given	Found OK	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given	Found OK	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given	Found OK	
9h	Scrutiny of Annual return on fixed assets	Details given	Found OK	

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9k Scrutiny of Annual return on mining machineries Details given Found OK

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

**Date :**

**(H C SHARMA)**

Indian Bureau of Mines