

**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 : S. B. Shukla, Geologist  
Official with  
Designation
- (iv) Date of Inspection : 23/07/2017
- (v) Prev.inspection date : 23/11/2015

**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 correspondance** : RAJPURA-DARIBA  
DISTRICT-RAJSAMAND(RAJ.)  
PIN-313211
3. (a) **Lease Number** : RAJ0654
- (b) **Lease area** : 1142.2
- (c) **Period of lease** : 10
- (d) **Date of Expiry** : 29/05/2010
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

## Manager

Name : Sandeep Narade  
 Qualification : B TEch Mining  
 Appointment/ : 20/01/2016  
 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

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	5500m during 2016-17	5373.10m during 2016-17	
1b	Exploration over lease area for geological axis 1 or 2	N A	N A	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Hindutan Zinc Ltd. for U/G exploration & Transitional Drilling Associates for Surface Exploration.	Hindutan Zinc Ltd. for U/G exploration & Transitional Drilling Associates for Surface Exploration.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	N A	N A	
1e	Balance reserve as on 01/04/20	N A	8.99 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	N A	The lessee's efforts towards exploration were satisfactory.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North Lode, South lode, east lode & lower level (-23 to -119mRL)	North Lode, South lode, east lode & lower level (-23 to -119mRL)	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It is U/G mine & development proposed in North Lode, South lode, east lode & lower level (-23 to -119mRL Total 12500m development was proposed.	It is U/G mine & development proposed in North Lode, South lode, east lode & lower level (-23 to -119mRL Total 6156m development was made.	
2c	Stripping ratio or ore to OB ratio	It is U/G mine hence it is not applicable.	N A	

2d	Quantity of topsoil generation in m3	It is U/G mine N A hence it is not applicable.	
2e	Quantity of overburden generation in m3	It is U/G mine N A hence it is not applicable.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	N A	It is U/G mine & development made was satisfactory.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	It is U/G mine & production proposed in South Lode, North Lode, Main Lode, East lode & Development total 950000T during 2016-17.	It is U/G mine & production in South Lode, North Lode, Main Lode, East lode & Development total 745532 T during 2016-17 was made.	
3b	Quantity of ROM mineral production proposed	9500000 T	745532 T	
3c	Recovery of sailable/usable mineral from ROM production	As per Pb & Zinc Concentrates	Pb-69%, Zn- 84%	
3d	Quantity of mineral reject generation	Not specified	646489 MT	
3e	Grade of mineral rejects generation and threshold value declared.	N A	N A	
3f	Quantity of sub grade mineral generation.	None	Nil	
3g	Grade of sub grade mineral generation	None	Nil	

3h	Manual / Mechanised method adopted for segregating from ROM	It is U/G mine, hence not applicable.	N A	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	Nil	
3j	Provision of drilling and blasting in mineral benches	It is U/G mine, hence not applicable.	N A	
3k	Provision of mining machineries in mineral benches	It is U/G mine, hence not applicable.	N A	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It is U/G mine, hence not applicable.	N A	
3m	Total area covered under excavation/pits	It is U/G mine, hence not applicable.	N A	
3n	Ore to OB ratio for the pit/mine during the year.	It is U/G mine, hence not applicable.	N A	
3o	Total area put in use under different heads at the end of year	It is U/G mine, hence not applicable.	N A	
3p	Production of ROM mineral during the last five year period as applicable	4286000 T	3200710 T	
3q	General remarks of inspecting officers on method of mining etc.	N A		It is U/G mine & method of mining is satisfactory.

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Solid Waste Management - Dumping:

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

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	It is U/G mine, hence not applicable.	N A
5b	Area under backfilling of mined out area	It is U/G mine, hence not applicable.	N A
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	It is U/G mine, hence not applicable.	N A
5d	Total area fully reclaimed and rehabilitated	It is U/G mine, hence not applicable.	N A
5e	General remarks of inspecting officers on backfilling and reclamation etc.	N A	It is U/G mine, hence waste dump 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	Not Submitted	
6b	Area available for rehabilitation (ha) .	It is U/G mine, hence not applicable.	N A	
6c	afforestation done (ha).	It is U/G mine, hence not applicable.	N A	
6d	No. of saplings planted during the year	--	6000 nos	
6e	Cumulative no .of plants	N A	190000 nos.	
6f	Any other method of rehabilitation	It is U/G mine, hence not applicable.	N A	

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	316666 cu M	329173 Cu M
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	130110 Cu M	329173 Cu M
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	It is U/G mine, hence not applicable.	N A
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	It is U/G mine, hence not applicable.	N A
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	It is U/G mine, hence not applicable.	N A
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	4 Ha	200 Ha
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	It is U/G mine, hence not applicable.	N A



6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	It is U/G mine, hence not applicable.	N A
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air, water, and noise monitoring regularly.	Being done.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	N A	It is U/G mine, & efforts 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	It is U/G Mine hence not applicable.	N A	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	It is U/G Mine hence not applicable.	N A	
7c	Different grade of mineral sorted out at mines.	It is U/G Mine hence not applicable.	N A	
7d	Any beneficiation process at mines	None	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	N A		It is U/G mine & lessee's efforts towards conservation were satisfactory.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	It is U/G Mine hence not applicable.	N A
8b	Concurrent use or storage of topsoil	It is U/G Mine hence not applicable.	N A
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	It is U/G Mine hence not applicable.	N A
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	It is U/G Mine hence not applicable.	Waste obtained is used in backfilling of Stopes.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	It is U/G Mine hence not applicable.	N A
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200 ha area covered under plantation.	200 ha area covered 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	N A	The aesthetic beauty in & around mine is good.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details Furnished.	Found OK
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details Furnished.	Found OK
9d	Scrutiny of Annual return on afforestation	Details Furnished.	Found OK
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details Furnished.	Found OK
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details Furnished.	Found OK
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details Furnished.	Found OK
9h	Scrutiny of Annual return on fixed assets	Details Furnished.	Found OK
9k	Scrutiny of Annual return on mining machineries	Details Furnished	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