

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

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** RAJ/UDP/PB-ZN-2

**Mine code :** 34RAJ26004

- (i) Name of the Inspecting : **S012** ) **H C SHARMA**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sh. R. S. Dehariya, Manager Mines  
Official with  
Designation
- (iv) Date of Inspection : 08/02/2018
- (v) Prev.inspection date : 21/07/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **ZAWARMALA**
- (b) **Registration NO.** : **IBM/421/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Underground
- (e) Postal address  
State : RAJASTHAN  
District : UDAIPUR  
Village : ZAWAR  
Taluka : GIRWA  
Post office : ZAWAR MINES  
Pin Code :  
FAX No. : 0294-2726243  
E-mail : Sunil.Duggal@vedanta.co.in  
Phone : 2726611,2726612,2726253,
- (f) Police Station : Zawar Mines
- (g) First opening date : 01/04/1950
- (h) Weekly day of rest : MON
2. Address for : VILL-ZAWAR  
correspondance : POST-ZAWARMALA,P.O=Goverdhanvilash  
DISTT-UDAIPUR
3. (a) Lease Number : RAJ1725
- (b) Lease area : 3620
- (c) Period of lease :
- (d) Date of Expiry : 29/03/2010
4. Mineral worked : 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 : P S Jaitawat  
Zawar Mines Tehsil Zawar  
Udaipur UDAIPUR RAJASTHAN  
Phone:  
FAX :

6. Date of approval of Mining :  
Plan/Scheme of Mining

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	0	0	
1b	Exploration over lease area for geological axis 1 or 2	474 no of holes/ 56833m	474 no of holes/56833m	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	70 Nos of holes/8290m	70 no of holes/ 8290m	
1e	Balance reserve as on 01/04/20	2.64 Million T	2.64 Million T	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The lessee's conduct towards exploration was satisfactory.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Not applicable as 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 as it is U/G Mine.	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	The mine has been developed by U/G method 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	Not applicable as it is U/G mine.	Not applicable	
3b	Quantity of ROM mineral production proposed	320000 T	338500 T	
3c	Recovery of sailable/usable mineral from ROM production	95 %	95%	
3d	Quantity of mineral reject generation	294385 T	274777 T	
3e	Grade of mineral rejects generation and threshold value declared.	0.46% TMC	0.46 % TMC	
3f	Quantity of sub grade mineral generation.	None	Nil	
3g	Grade of sub grade mineral generation	None	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Not applicable	Not applicable	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None during the year	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	1470000 T	1104375 T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The lessee's conduct towards exploitation was satisfactory.

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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	as it is U/G mine.
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 dumping 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	as it is U/G mine.
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	Yes	
6b	Area available for rehabilitation (ha) .	Not applicable	Not applicable	
6c	afforestation done (ha).	Not applicable	Not applicable	
6d	No. of saplings planted during the year	Not applicable	Not applicable	
6e	Cumulative no .of plants	Not applicable	Not applicable	
6f	Any other method of rehabilitation	Not applicable	Not applicable	
6g	Cost incurred on watch and care during the year	Not applicable	Not applicable	
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)Afforestation 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)	Yes	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The 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 as it is U/G Mine.	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	

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7d	Any beneficiation process at mines	Not applicable	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	The lessee's conduct towards conservation of minerals was 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 as it is U/G Mine.	
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	The waste excavated had been used for hieghtening of Tailing pond.	being done.	
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)	Not applicable	Not applicable	
8g	Survival rate	Not applicable	Not applicable	

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 submitted up to Feb 2018. The A/R submitted for 2016-17.	
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