

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/UDP/LZ-3

Mine code : 34RAJ26001

- (i) Name of the Inspecting : **S012**) **H C SHARMA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sh. Mithlesh Kumar, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 10/02/2018
- (v) Prev.inspection date : 18/07/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BALARIA**
- (b) **Registration NO.** : **421**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Underground
- (e) Postal address
- State : RAJASTHAN
- District : UDAIPUR
- Village : ZAWAR
- Taluka : SARADA/GIRWA
- Post office : ZAWAR MINES
- Pin Code : 313901
- FAX No. : 0294-2726243
- E-mail : sunil.duggal@vedanta.co.in
- Phone : 2726238
- (f) Police Station : ZAWAR
- (g) First opening date : 01/04/1970
- (h) Weekly day of rest : SUN
2. Address for : PO- ZAWAR
correspondance : DISTT.- UDAIPUR
RAJASTHAN-313901
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 LIMITED
 YASHAD BHAVAN UDAIPUR
 RAJASTHAN
 Phone:(0294) 2342093
 FAX :(0294) 2342092

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

Agent : R.R.KUMAR
 H.Z.L,ZAWAR MINES P.O.ZAWER
 MINES UDAIPUR (RAJ) UDAIPUR
 RAJASTHAN
 Phone: 2726251
 FAX : 0294(2726243)

Mining Engineer

Name : PRASHANT GUPTA,Full Time
 Qualification : BE. (MIN.) 2 class cert.
 Appointment/ : 11/08/2012
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Modif.of approved Mining Plan 04/10/2012
 Mining Scheme rule 12 MCDR1988 31/07/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None	Nil	
1b	Exploration over lease area for geological axis 1 or 2	15000 m	15195m	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Asha Engineers and contractor., 203.189 lakh Rs.	Asha Engineers and contractor., 205.833 lakh Rs.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	12.212	11.319	
1e	Balance reserve as on 01/04/20	2.60 Million T	2.415 million T	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The party's conduct towards 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 as it is U/G mine.	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 deposit has been worked by U/G method of Work suitable to such 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	455000 T	421700 T	
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	
3d	Quantity of mineral reject generation	Not applicable.	Not applicable.	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	
3f	Quantity of sub grade mineral generation.	Not applicable.	Not applicable.	
3g	Grade of sub grade mineral generation	Not applicable.	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.	Not applicable.	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. as it is U/G mine.
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-- 455000 T, 2015-16-- 350000 T, 2014-15-- 375000 T, 2013-14-- 300000T	2016-17-- 421700 T, 2015-16-- 318335 T, 2014-15-- 221190 T, 2013-14-- 273540T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The U/G method of mining has been adopted to work the deposit which is suitable to such type of deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	It is U/G mine hence 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 hence Waste management is not applicable. what ever waste generated is filled in U/G Stopes.

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, whatever waste generated is filled in Stopped out Voids.
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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 as it is U/G mine.	Not applicable	
6c	afforestation done (ha).	Not applicable	Not applicable	
6d	No. of saplings planted during the year	24300 Nos	24300 Nos.	
6e	Cumulative no .of plants	373625 Nos.	373625 Nos.	
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 as it is U/G mine.	
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	It is U/G mine & lessee's conduct towards implementation of PMCP was satisfactory.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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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
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 mineral conservation was satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not applicable as it is U/G mine.	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)	It is U/G mine.	23500 trees planted within lease & 800 outside lease area.
8g	Survival rate	80%	80%
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 general aesthetic beauty of the area was satisfactory.

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 has been recieved 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

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