

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

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/BSW/MAG-1

Mine code : 40RAJ03001

- (i) Name of the Inspecting : **S012**) **H C SHARMA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sh. Hitesh Rajgaur, Agent & Sh. Nathani Akshay Revash
Official with
Designation
- (iv) Date of Inspection : 06-NOV-19
- (v) Prev.inspection date : 17-NOV-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KALA KHUNTA**
- (b) **Registration NO.** : **IBM/7376/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : RAJASTHAN
District : BANSWARA
Village : KALA KHUNTA
Taluka : KUSHALGADH
Post office : KALAKHUNTA
Pin Code :
FAX No. : 9909926771
E-mail : amamnore@gmail.com
Phone : 9909926771
- (f) Police Station : KALINJARA
- (g) First opening date : 09-APR-85
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE-KALA KUNTHA POST-KALINJARA
correspondance : TALUKA-KUSHALGARH
DISTT-BANSWARA
3. (a) Lease Number : RAJ0303
- (b) Lease area : 18.89
- (c) Period of lease : 50
- (d) Date of Expiry : 08-APR-35
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : ASIAN MINING ASSOCIATES
 BANSWARA RAJASTHAN
 Phone:
 FAX :

Owner : PANKAJ RAJGOR
 PANCHMAHAL GUJARAT
 PANCHMAHALS GUJARAT
 Phone:
 FAX :

Agent : Hitesh Rajgaur
 A/102-3 CASA Central Near
 isha Hospital, Sarabhai -
 Compound, Vadi Wadi,
 Vadodara VADODARA GUJARAT
 Phone:
 FAX :

Mining Engineer

Name : Nathani Akshay Revashankar, Full Time
 Qualification : Diploma in Mining Engineering
 Appointment/ : 01-SEP-19
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Renewal under rule 22 MCR1960 30-JUN-05
 Mining Scheme rule 12 MCDR1988 12-DEC-11

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposed.	No exploration done.	Entire potential area explored in G-1 Level.
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	Nil	None	
1e	Balance reserve as on 01/04/20	476198 T in proved 111 category	570374 T in proved 111 category.	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	No issue regarding exploration.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit No 1, 2, 3, 5 & 7	Pit No 1, 2, 3, 5 & 7.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1 : 2.33	1 : 2.3	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	104212 Cu M	53214.2857 T	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	No issue regarding development of Mine.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Five	Five	
3b	Quantity of ROM mineral production proposed	25000 T	12095 T	
3c	Recovery of sailable/usable mineral from ROM production	No proposal	9410 T	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	None	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
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	By Jack hammer & tractor compressor combination.	By Jack hammer & tractor Compressor combination	

3k	Provision of mining machineries in mineral benches	Manual loading in to tractor.	Manual loading in to tractor.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes, 3m in O/B & in Mineral
3m	Total area covered under excavation/pits	5.462 Ha	4.850 ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 2.33	1 : 2.3
3o	Total area put in use under different heads at the end of year	Under Mining - 5.462 ha, O/B Dumping- 2.442 ha, Mineral Storage- 0.200 ha, Green Belt- 1.600 ha	Under Mining- 4.85 ha, Mineral Storage- 0.200 ha, Green Belt- 0 ha, O/B Dumping- 1.25 ha
3p	Production of ROM mineral during the last five year period as applicable	2014-15-- 25000 T, 2015-16-- 25000 T, 2016-17-- 25000 T, 2017-18-- 25000 T, 2018-19-- 25000 T.	2014-15-- 7910 T, 2015-16-- 3457 T, 2016-17-- 2545 T, 2017-18-- 7502 T, 2018-19-- 9410 T.
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The opencast manual method is used for carrying out mining operations in the lease area.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	On Footwall side of the deposit.	on Footwall side of deposit.	

4c	Number of dumps within lease area and outside of lease area	Eight	Eight	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL but within lease area.	Out side UPL & within lease area.	
4e	Number of active and alive dumps.	Six	Six.	
4f	Number of dead dumps.	Two	Two	
4g	Number of dumps established.	Nil	Nil	Not matured
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 two inactive dumps have not been stabilised & it is Proposed to backfill these in Voids created by pits.	

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.	After reaching Economic Mineable depth.	After reaching economic mineable depth.	
5b	Area under backfilling of mined out area	Nil	None	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Not applicable	

5d	Total area fully reclaimed and rehabilitated	Nil	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	No matured area available for backfilling & reclamation.

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 as per rule	Not submitted	The VL has been pointed for same.
6b	Area available for rehabilitation (ha) .	No proposal	Not applicable	
6c	afforestation done (ha).	0.2 ha	0.2 ha	
6d	No. of saplings planted during the year	250 nos	234 Survived as reported.	
6e	Cumulative no .of plants	800 nos during the plan period	740 nos during the plan period.	
6f	Any other method of rehabilitation	No proposal	Not applicable	
6g	Cost incurred on watch and care during the year	No proposal	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Six monthly compliance report to be submitted as per the EC.	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The compliance 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	25000 MT	9410 MT
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual
7c	Different grade of mineral sorted out at mines.	Single grade by hand sorting.	Single grade by hand sorting.
7d	Any beneficiation process at mines	No proposal	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	No mineral conservation issue is there in the mine.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes & used for plantation.	
8b	Concurrent use or storage of topsoil	Yes	Yes used for plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Yes being done at earmarked place.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not applicable	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation over 0.6 ha area.	Plantation over 0.7 ha area.
8g	Survival rate	94 %	94%
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 in & around the mine 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 submitted up to Nov 2019. The A/R submitted for the year 2018-19.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The Manager Sh. Kantilal Charpot, Mining Engineer - None & Geologist- Sh. Kirit Amin.	The Manager & Mining Engineer- Sh. Nathani Akshay Revashankar & Geologist - Sh . Kirit Amin.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under excavation- 4.8500 ha, Waste disposal- 1.25 ha, Mineral Storage- 0.2 ha, Green Belt- 0.80 ha.	Covered under excavation- 4.8500 ha, Waste disposal- 1.25 ha, Mineral Storage- 0.2 ha, Green Belt- 1.0 ha.	

9d	Scrutiny of Annual return on afforestation	250 nos planted within leasehold with the survival of 235 number of trees.	250 nos planted within leasehold with the survival of 235 number of trees.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject generation- Nil	Reject generation- Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The opening Stock- 1367.119 T, Production- 9410 T & closing Stock- 1529.330 T.	Found in order.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The Ex- Mine price - 2920 per Tonne & production cost stated as Rs. 2740 per Tonne.	A total of Rs. 10515459 had been expensed to raise a production of 9410 T, thereby the cost of production comes about Rs. 1117.48 Per tonne which has been stated as Rs. 2740 per Tonne.
9h	Scrutiny of Annual return on fixed assets	The value of Fixed assets given as Rs. 7961854/- and depreciation during the year as Rs 254401/-.	Found in order.
9k	Scrutiny of Annual return on mining machineries	The two number of tractor trolly with 50 HP each has been deployed in the mine.	Found in order.

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