

Regional office: Gandhinagar

File no: GUJ/KUTCH/ BXT-03

INSPECTION REPORT

Inspecting officer: Dr. N K Mathur, AMG, Gandhinagar
Inspection date: 13.10.2017, Type of Inspection: Mining plan

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	RATATALAB BAUXITE MINE (S.NO. 275/p)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	110.07 Hect (NON-FOREST LAND)
3	Mine code	07GUJ10010
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/246/2011
5	Name of the lessee, Address, phone, email and fax number	Orient Abrasive Limited.GIDC Area porbandar 9998945910 orientkhambaliya@gmail.com
6	Village	Moti Balachod
7	Taluka/Mandal	Abdasa
8	District	Kutch
9	Pincode	360315
10	State	Gujarat
11	Post office	Mothala
12	Nearest police station	
13	Nearest Railway station	Bhuj
14	Date of Grant of Mining Lease	14.09.1973
15	Date of Execution	03.06.1974
16	Date of opening of Mine	02.02.1976 (Opening Date)
17	Date of first Renewal, if applicable and its period & expiry	Form J-10.03.1993 period 20 year
18	Date of second Renewal, if applicable and its period & expiry	From J- 29.05.2013 for 20 years
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	From J- 29.05.2013 lease period valid upto 31.03.2030
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Manubhai Rathod w.e.f.13.06.2017 Nr.Madhurma society, Dharampur, Khambaliya- Jamnagar-361305
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Gunanand Roy M/s.Orient abrasive Ltd. Jamnagar Dwarka Highway,Khambaliya-361305 District- Devbhumi Dwarka. (Gujarat)
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment	Mining operation is temporarily suspended for the want of statutory clearances.

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23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mining operation is temporarily suspended for the want of statutory clearances.
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mining operation is temporarily suspended for the want of statutory clearances.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining operation is temporarily suspended for the want of statutory clearances.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Mining Scheme with approved Number 682(23) MS - 551/2007 MCCM (N) UDP and letter dated 17/09/2013, period- 2013-14 to 2017-18
27	Mineral(s) granted in lease and proved for mining	Bauxite
28	Method of Mining(Opencast, Underground)	Opencast Working
29	Category (Fully Mechanised, Others or Manual)	Other than fully mechanised (OTFM)
30	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –
Exploration

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
1a	Backlog of previous year	One trial pit	NIL	Mining operation is temporarily suspended.
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Lessee has dug an exploratory Five trial pit	Apart from that lessee has drill 12 no of exploratory drill hole in the year 2014-15
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Lessee & Nil	Lessee & Rs.55000	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Five trial pit	

1e	Balance reserves as on 01.04.2016	2592300 MT	2592300 MT	Only 111 and 121&122 category
1f	General remarks of inspecting officer on geology, exploration etc.			

2.0 Development

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
2a	Location of development w.r.t. lease area	M-M' & N-N' and P-P'	No work	Working temporarily suspended due to statutory clearance.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Top OB- one bench Bauxite- one bench	Top OB- one bench Bauxite- one bench	
2c	Stripping ratio or ore to OB ratio	1:0.50	Nil	No working
2d	Quantity of topsoil generation in m3	8350	Nil	No working
2e	Quantity of overburden generation in m3	18200	Nil	No working
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.			

3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
3a	Number of pits proposed for production	Two pit & pit Floor	NA	No working
3b	Quantity of ROM mineral production proposed	109560 tonne	Nil	No working
3c	Recovery of salable/usable mineral from ROM production	90%	NA	No working
3d	Quantity of mineral reject generation	No Proposal	No Proposal	No working
3e	Grade of mineral reject generation and threshold value declared	Threshold value= $Al_2O_3 \geq 30\%$ and $SiO_2 \leq 5\%$	NIL	No Proposal
3f	Quantity of sub-grade mineral generation	No Proposal	NIL	No Proposal
3g	Grade of sub-grade mineral generation	No Proposal	NIL	No Proposal

3h	Manual / Mechanised method adopted for segregating from ROM	Semi Mechanised	Semi Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	Not applicable	
3j	Provision of drilling & blasting in mineral benches	Jack hammer drilling (RH 658/42 One compressor-One	NA	No working
3k	Provision of mining machineries in mineral benches	Excavator-01 Tipper-04	No Working	No working

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES	
3m	Total area covered under excavation/pits	20.0476	20.0476	
3n	Ore to OB ratio for the pit/mine during the year	1:0.50	NA	No working
3o	Total area put in use under different heads at the end of year	Pit-28.410 ha Waste/reject- 1.2906ha Others- 5.2704 ha	Pit-24.0747 ha Waste/reject- 1.2906ha Others- 5.2704 ha	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-(2012-13)- MT Yr-(2013-14)- 110000MT Yr-(2014-15)- 110000MT Yr-(2015-16)- 110000 MT Yr-(2016-17)- 109560MT	NIL NIL NIL 105050 MT NIL	
3q	General remarks of inspecting officer on method of mining etc.			

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	OB and waste generated during mining scheme period will be backfilled in	Nil	No working.

		southern and northern part of the mined out area		
4b	Location of topsoil, OB & mineral reject dumps	No Proposal	NA	
4c	Number of dumps within lease area and outside lease area	Four	No working	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of active & alive dumps	Nil	Nil	
4f	Number of dead dumps	Four	Four	
4g	Number of dumps stabilised	Four	Four	
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposal	One garland drain constructed	
4i	Length of Retaining wall or garland drain all along dump	No Proposal	Length of garland drain`-171 mt.	
4j	Number of settling ponds	No Proposal	Mining Pits is being utilised as settling ponds.	
4k	Specific comments of inspecting officer			

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	0.8273 Ha area to be backfilling	NIL	No working
5b	Area under backfilling of mined out area	4.0271 Ha	4.0271 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Topsoil to be utilised on backfilled area.	NA	
5d	Total area fully reclaimed & rehabilitated	4.0271 Ha	4.0271 Ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc			

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	As per Proposal submitted	Submitted by hard copy on 20 th July 2017 sent through RCOM, IBM, and Gandhi agar.	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No Proposal	No Proposal	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means (Fencing)	0.8273 ha 0.8273 ha 0.0250 ha 1.2627 Ha Fencing-100 Meter	Nil NIL NIL NIL 100 Meter	Working temporarily discontinued for the want of statutory clearance.

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Proposal	No Proposal	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air- 01 Water-01 Noise-01	Air- 04 Water-01 Noise-02	

6f	General remarks of inspecting officer on PMCP compliance & progressive			

7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposal made for manual sorting and sizing.	NA	Working temporarily discontinued for the want of statutory clearance.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	NA	Working temporarily discontinued for the want of statutory clearance.
7c	Different grade of mineral sorted out at mines	High grade (refractory & abrasive grade) & Low grade.	NA	Working temporarily discontinued for the want of statutory clearance.
7d	Any beneficiation process at mines	Only manual sorting and sizing.	NA	Working temporarily discontinued for the want of statutory clearance.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			

8.0 Environment

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Proposal made for the separate removal and spreading of top soil on the backfilled area.	NA	Working temporarily discontinued for the want of statutory clearance.
8b	Concurrent use or storage of topsoil	In approved MP soil was proposed to spread on backfilled area.	NA	Working temporarily discontinued for the want of statutory clearance.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal for no external dump of overburden and waste rock	No external dump of overburden and waste rock.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposal made for the backfilling of overburden/waste rock into the mined out pit.	NA	Working temporarily discontinued for the want of statutory clearance.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Part of the mineral exhausted pit to be backfilled and remaining part to be converted into water reservoir	NA	Working temporarily discontinued for the want of statutory clearance.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation will be done on backfilled land & in statutory barrier. The species Neem Gulmohar and other local species will be planted. One person will be deputed for post plantation care such as watering, manuring etc.	Local species has been planted on the backfilled area and post plantation care such as watering and manuring etc. Being done.	

8g	Survival rate	50%	70%	
8h	Water sprinkling on roads to control airborne dust	Water to be sprinkled on the haul road to suppress the dust being getting airborne	Mobile water tankers have been deployed for the purpose.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are			

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	On line Monthly & Annual return is not filed	Violation letter issued to owner

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		On line Monthly & Annual return is not filed	Violation letter issued to owner
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		On line Monthly & Annual return is not filed	Violation letter issued to owner
9d	Scrutiny of Annual return on afforestation		On line Monthly & Annual return is not filed	Violation letter issued to owner
9e	Scrutiny of Annual		On line Monthly &	Violation

	return on mineral reject generation (Grade & quantity)		Annual return is not filed	letter issued to owner
9f	Scrutiny of Annual return on ROM stock and/or graded ore		On line Monthly & Annual return is not filed	Violation letter issued to owner
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost		On line Monthly & Annual return is not filed	Violation letter issued to owner
9i	Scrutiny of Annual return on fixed assets		On line Monthly & Annual return is not filed	Violation letter issued to owner
9k	Scrutiny of Annual return on mining machineries		On line Monthly & Annual return is not filed	Violation letter issued to owner

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - Violation letter issued to owner for rule 45(5) (b) & 45(5) (c) of MCDR 2017 vide letter no. Guj/Kutch/BXT-03 dt. 15.12.20017.

Place Gandhinagarr
Date 20-12-2017

Name: Dr N. K. Mathur
Designation: AMG

Signature