

MCDR INSPECTION INFORMATION SHEET

1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	Avariyaar-II Bauxite Mine
1(b)	Name of Inspecting Officer & Designation	G Ram, Senior Asst. Controller of Mines
1(c)	Accompanying Mines Representatives	Mr. Gunanand Roy (Owner Representative)
1(d)	Type of Inspection	MCDR/Star Rating
1(e)	Date of Inspection	16/07/2021
2	Total Lease Area (Ha), Non-forest and forest	50.18 Hect (Non-Forest land)
3	Mine code	07GUJ07004
4	IBM Registration Number under rule 45 of MCDR, 2017	IBM/246/2011
5	Name of the lessee, Address, phone, email, fax number	M/s.Orient Abrasive Limited. GIDC Industrial Area Porbandar Mob: 9998945910 Email: orientkhambalia@gmail.com
6	Village	Mewasa
7	Taluka/Mandal	Kalyanpur
8	District	Devbhumi Dwarka
9	Pin code	360315
10	State	Gujarat
11	Post office	Mewasa
12	Nearest police station	Bhatia
13	Nearest Railway station	Bhatia
14	Date of Grant of Mining Lease	07.04.1981
15	Date of Execution	05.10.1981
16	Date of opening of Mine	NA
17	Date of first Renewal, if applicable and its period & expiry	05.06.2000
18	Date of second Renewal, if any and its period & expiry	Not applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	lease period is extended as per MMDR(A) Act 1957 & valid up to 04.10.2031
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, Dharmapur,, Khambhalia- Jamnagar-361305
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Gunanand Roy w.e.f 01.08.2016 ,M/s.Orient abrasive Ltd. Jamnagar Dwarka Highway,Khambaliya-361305 District-Devbhumi Dwarka.(Gujarat), Mob : 9998945910 Email ID: orientkhambalia@gmail.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Kirti Rathod w.e.f 01.06.2019 , M/s.Orient abrasive Ltd. Jamnagar Dwarka Highway,Khambaliya-361305 District- Devbhumi Dwarka.(Gujarat), Mob : 7046000073 Email ID: orientkhambalia@gmail.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Kirti Rathod w.e.f 01.06.2019 , M/s.Orient abrasive Ltd. Jamnagar Dwarka Highway,Khambaliya-361305 ,District-Devbhumi Dwarka.(Gujarat), Mob : 7046000073 Email ID: orientkhambalia@gmail.com
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties	Yes, Sh.Santosh Kaluskar, MSc (Geology) they are satisfied the rule 55 & carrying out their duties as per rule 56 & 57.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan was approved vide letter No- 682(23) MS - 491/2009 MCCM (N) UD dated 05/12/2016 Validity-2017-18 to 2021-22 for 5 year period.
26	Date of Approval of Scheme of Mining /MMP with five-year period and specific condition in approval letter, if any.	MP approved vide letter No- 682(23) MS-491/2009 MCCM (N)UD dated 05/12/2016 Validity-2017-18 to 2021-22
27	Mineral(s) granted in lease for mining	Bauxite
28	Method of Mining(Opencast, Underground)	Opencast Working
29	Category (Fully Mech., Others or Manual)	Category-A (Semi Mechanised)
30	Captive/Non Captive	Captive

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

Exploration

SN	Item	Proposals (2020-21)	Actual work	Remarks
1a	Backlog of previous year	One Trial Pit	One Trial Pit	NIL
1b	Exploration over lease area for G-axis 1 or 2	One Trial Pit(6mx6mx5m)	One Trial Pit (6mx6mx5m)	
1c	Exploration Agency & Exp. in lakh Rs. during year	Lessee itself explore the area		
1d	Balance area to be explored to bring G- axis in 1/2	G1-33.31 Ha, G2-3.64 Ha, G3-13Ha		
1e	Balance reserves as on 01.04.2021	Proved(111)=3258969T,Probable(121)=364960T, Total= 3623929 T		
1f	General remarks of inspecting officer on geology, exploration.	NIL		

2.0 Development

SN	Item	Proposals (2020-21)	Actual work	Remarks
2a	Location of development w.r.t. lease area	S370-S180 & W230 –W010 (Pit No.4&5)	Partly done due lagging ROM	
2b	Separate benches in topsoil, OB, mineral	Proposed for separate benches	Separate bench, irregularly	

2c	Stripping ratio or ore to OB ratio	1:0.4	1:0.0	
2d	Quantity of topsoil generation in m ³	12569 M ³	NIL	
2e	Quantity of OB generation in m ³	41895 M ³	NIL	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Lease area is developed by forming mine pits.		

3.0 Exploitation

SN	Item	Proposals (2020-21)	Actual work	Remarks
3a	Number of pits proposed for production	Pit No. 4 & 5	Pit No. 4 & 5	
3b	Quantity of proposed ROM production	5,23,688 MT	5945 MT	
3c	Recovery of saleable/usable mineral from ROM	100%	100%(with proper blending)	
3d	Quantity of mineral reject generation	No Proposals	NIL	
3e	Grade of mineral reject generation and threshold value declared	No Proposals	NIL	
3f	Quantity of sub-grade mineral generation	No Proposals	NIL	
3g	Grade of sub-grade mineral generation	No Proposals	NIL	
3h	Manual / Mechanised method adopted	Proposed Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposals	NIL	
3j	Provision of drilling & blasting in mineral benches	Jack hammer drilling - One compressor-One	Hydraulic Rock breaker is deployed	
3k	Provision of mining machineries in mineral benches	Excavator-03,Tipper-06 JCB-1	Excavator-01, Tipper-01 JCB-01	
3l	Whether height of benches in OB & mineral suitable for method of mining proposed in MP	1 Bench of 5 m height & 1 m height proposed for OB	1 Bench of 5 m height & 1 m height proposed for OB	
3m	Total area covered under excavation/pits	4.1695 Ha.	0.04 Ha.	T-11.16Ha
3n	Ore to OB ratio for the pit/mine during year	1:0.4	1:0.0	
3o	Total area put in use under different heads at the end of year		Pit- 11.16 ha, Waste/reject-0.197ha.Mineral Storage-1.2 ha Infr.&Road-1.531, Others- 0.876 ha	
3p	Production of ROM mineral during last five-year period, as applicable	2016-17= 254850 T 2017-18= 277500 T 2018-19= 433000 T 2019-20= 521188 T 2020-21= 523688 T 2021-22- 524938T	2016-17= 253720 T 2017-18= 28375 T 2018-19= 11115 T 2019-20= 2520 T 2020-21= 5945 T 2021-22- 1290 T (Till)	Less Production due to poor market Demand. Till June,21
3q	General remarks of inspecting officer on method of mining etc.			

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2020-21)	Actual work	Remarks
4a	Separate dumping of topsoil, OB, mineral reject	Topsoil-12569 M ³	NIL	
4b	Location of topsoil, OB & mineral reject dumps	OB-41895 M ³	NIL	
4c	Number of dumps within lease area and outside	Not proposed	Nil	
4d	Location of dumps w.r.t. ultimate pit limit	Not proposed	NA	
4e	Number of active & alive dumps	Nil	Nil	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall/garland drain along dumps	Nil	NIL	
4i	Length of Retaining wall/garland drain along dump	Nil	Nil	
4j	Number of settling ponds	Nil	NIL	
4k	Specific comments of inspecting officer	NIL		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2020-21)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Partial	Partial	
5b	Area under backfilling of mined out area	Partial	Partial	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Top soil to be utilised for backfilled/ Plantation.	Backfilled / plantation area.	
5d	Total area fully reclaimed & rehabilitated	NIL	NIL	
5e	General remarks of inspecting officer on backfilling, reclamation			

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly 26(2).	Proposed	Not Submitted	VL pointed out

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	Not Proposed	NIL	
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	i) 4.1895 Ha ii) 1.2154 Ha iii) 0.150 ha iv) 2.9741 Ha v) 580 M Fencing	i) NIL ii) NIL iii) 0.150 ha. iv) NIL v) NIL	Less production due to Poor market demand.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	250 Saplings	260 Sapling planted as per proposals. Mine Office side & shift room (contract work)	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	NIL	Regular Monitoring	
6f	General remarks of inspecting officer on PMCP compliance & progressive			

7.0 Mineral Conservation

SN	Item	Proposals (2020-21)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposal made for manual sorting, sizing.	Grade-wise manual sorting and sizing.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Manually	Manually	
7d	Any beneficiation process at mines	manual sorting sizing	manual sorting sizing	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	manual sorting and sizing of mineral as per plant requirement. No any other beneficiation is done.		

8.0 Environment

SN	Item	Proposals (2020-21)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	Proposed	NIL	
8b	Concurrent /storage of topsoil	Not proposed	NIL	
8c	Separate dumps for OB, waste rock, rejects	No OB proposed	NIL	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring land its original use	Not proposed	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations	Not proposed	As per the proposal	
8f	Baseline information on existence of plantation & additional plantation done	Not proposed	About 15Ha area plantation	
8g	Survival rate	250 Nos	260 Nos.	
8h	Water sprinkling on roads, control airborne dust	Proposed	Mobile water tankers using	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area is natural grown shrub & bushes etc.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks	
	Status of submission of Monthly and Annual returns	M.R. Submitted up to – June-2021 (10.6.21) A.R. submitted up to- Year 2020-21 (28.6.21)		
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	Given as per AR-2020-21	Appointed	VL pointed out for deficiencies
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Pit-11.16Ha, waste 0.197ha, Infra-1.53, plantation-2Ha	
9d	Scrutiny of Annual return on afforestation	Yes	260 (60%Survival)	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Yes	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	1575Rs/T (Cement) 650Rs/T (Abrasive)	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Yes	Yes, VL pointed out for deficiencies.	
9i	Scrutiny of Annual return on fixed assets	Yes	Yes given	
9k	Scrutiny of Annual return on mining machineries	Yes	Yes	

10-Details of violations observed during current inspection and compliance position of earlier violation pointed out:-In present inspection, violation of rules 26(2), 33, 45(7) pointed out & under process. Star Rating validation (03Star) done.