

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Kotda Roha Bauxite Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	360-00-00 Hect.
3	Minecode	07GUJ10022
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/727/2011
5	Name of the lessee, Address, phone, email and fax number	Kotda Roha Bauxite Mine, Vill-Kotda (Roha) , Ta- Nakhtrana, Dis-Kutch
6	Village	Kotda (Roha)
7	Taluka/Mandal	Nakhtrana
8	District	Kutch
9	Pincode	--
10	State	Gujarat
11	Post office	Kotda (Roha)
12	Nearest police station	Mothala
13	Nearest Railway station	Bhuj
14	Date of Grant of Mining Lease	12-01-2006
15	Date of Execution	28-03-2006
16	Date of opening of Mine	01-02-2007
17	Date of first Renewal, if applicable and its period & expiry	NIL
18	Date of second Renewal, if applicable and its period & expiry	NIL
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NIL
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Arunkumar Solanki (IAS) GMDC Ltd. "Khanij bhavan", 132 FT Ring Road, Vastrapur, Ahmedabad.
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri S G Patel Bauxite Project-Gadhsisa, Ta-Mandvi, Dis-Kutch, 370445 01.11.2015
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri S B Patel Kotda Roha Bauxite Mine (03-11-2016)
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri B L Kumawat (BE, MINING) Bauxite Project-Gadhsisa, Ta-Mandvi, Dis-Kutch, 370445 (14-11-2016)
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri V K Sumera (M.SC. GEOLOGY)
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	682(23)(992)/1999, 02.03.2000
26	Date of Approval of Scheme of	682(23)(992)/1999 dated 15/11/2016

	Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	
27	Mineral(s) granted in lease and proved for mining	BAUXITE
28	Method of Mining(Open cast, Underground)	Open cast.
29	Category (Fully Mechanised, Others or Manual)	A/ OTFM
30	Captive/Non Captive	Non Captive

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

Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not proposed	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	NA	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	NA	
1e	Balance reserves as on 01.04.2017...	2.15 million Ton	2.15 Million Ton	
1f	General remarks of inspecting officer on geology, exploration etc.	As per proposal		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	South east direction	South east direction	As per proposal
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Yes	As per proposal
2c	Stripping ratio or ore to OB ratio	1:0.00	1:0.021	
2d	Quantity of topsoil generation in m ³	NIL	NIL	
2e	Quantity of overburden generation in m ³	NIL	2152	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	As per proposal		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	(To achieve high grade bauxite)

				(Al ₂ O ₃ >52%)
3b	Quantity of ROM mineral production proposed	104286	79829	
3c	Recovery of salable/usable mineral from ROM production	100002	79829	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation (Al ₂ O ₃ <30%,size 10 mm)	4284	14217	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Yes	Not used	
3k	Provision of mining machineries in mineral benches	3	2	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	2	1-2	
3m	Total area covered under excavation/pits	39.19Ha	15.16Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.000	1:0.027	
3o	Total area put in use under different heads at the end of year	Pit-40812 m ² Waste/reject-NIL Others-NIL	25064m ² 0 0	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2012-13-1.0 Lac MT	109598.127 MT	
		Yr-2013-14-1.0 Lac MT	9488.869 MT	
		Yr-2014-15- 1.0 Lac MT	34170.581 MT	
		Yr-2015-16-1.0 Lac MT	0.000 MT	
		Yr-2016-17- 104286 MT	79829.076 MT	
3q	General remarks of inspecting officer on method of mining etc.	method of mining is suitable for the deposit.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	1	1	
4b	Location of topsoil, OB & mineral reject dumps	In SW direction of Pit-1	As per proposal.	
4c	Number of dumps within lease area and outside lease area	1 within lease area	1 within lease area	Dump Outside lease area- Nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Near Pit-1 in SW direction	Near Pit-1 in SW direction	
4e	Number of active & alive dumps	1	1	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	NA	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer	As per proposal		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	NIL	NA	
5b	Area under backfilling of mined out area	NIL	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NIL	NA	
5d	Total area fully reclaimed & rehabilitated	NIL	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area is not mature for backfilling.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	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.	Annual report on PMCP submitted on time	Not submitted	Violation 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	NIL 1.0 1000 10000 as proposed in EC 2.5 Lac	NIL 0.2 500 29749 1.0 Lac	Mine scheme is approved in the month of Nov.-16 after the monsoon period hence the plantation could not be taken up in accordance the mine scheme.

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	Not given	(i) 250x80 m ² (ii) 40x20x3 (iii) NA (iv)NA (v) NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	(i)1000 (ii) 1.0 Ha (iii) Manual	(i) 500 (ii) 0.2Ha (iii) Manual	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Annual report on PMCP not submitted on time, hence violatin has been pointed out.		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	104286	79829	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Bauxite & Sub grade	(i) PG (Al ₂ O ₃ ≥52%) (ii) NPG (Al ₂ O ₃ 40 to <52%) (iii) Rejects size less than 10 mm	
7d	Any beneficiation process at mines	Manual	Manual	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	As per proposal		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	As per availability	
8b	Concurrent use or storage of topsoil	NIL	Directly used for the Afforestation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES	YES	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	Partly done	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1000	500	
8g	Survival rate	80%	65%	
8h	Water sprinkling on roads to control airborne dust	01 (water sprinkler)	01 water sprinkler is used and fixed water spraying arrangement also provided near WB area	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in and around mines are good.		

9.0 Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted up to –Jun-2017 A.R. submitted up to- 2016-2017		
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	Mining Engg: B L Kumawat Geologist: V K Sumera Manager: S B Patel	Given	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit 15.16 Ha Reclaimed- 800m ² Dump -1.2 Ha	Given	
9d	Scrutiny of Annual return on afforestation	Nos of Plant-500	Given	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Given	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Given	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Yes	Given	
9i	Scrutiny of Annual return on fixed assets	Yes	Given	
9k	Scrutiny of Annual return on mining machineries	Yes	Given	

COMMUNITY DEVELOPMENT PLAN:→Action during the year Expenditure in Rs. Lakhs for

Item	Proposed Pre-year 2013-14	Incurred Pre-year 2014-15	Proposed current year 2015-16	Incurred current year 2016-17
General				
Health	--	--	5950.00	--
Housing	--	--	--	--
Medical facility	149875.00	156875.00	31071.00	20750.00
Safety	--	--	--	--
Sanitation	--	--	--	--
Water supply	26000.00	--	10000.00	--
Sub total:→	--	--		
Infrastructure				
Communication	--	--	--	--
Electricity	--	--	--	--
Public transport	--	--	--	--
Roads	--	--	--	--
Sub total:→				
Employment	--	--	--	--
Environment management	--	--	--	--
Others(Education)	105125.00	110625.00	394500.00	161000.00
Recreation	91875.00	--	--	184750.00
Sports activities	--	--	--	--
Training	--	--	--	--
Total	372875.00	267500.00	441521.00	366500.00

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- Violation of rule 26(2),33 and 45(5) (c) were pointed out.