MCDR INSPECTION REPORT

1.0 **GENERAL**

SN	Particulars	Details
1 (a)	Name of the Mine	KENEDY BAUXITE MINE S.NO 508
1(b)	Name of Inspecting officer, Designation	Sanjay M Girhe, Sr. Mining Geologist
1(c)	Type of Inspection	Review of Mining Plan
1(d)	Date of Inspection	02/11/2017
	Accompanying officer	Sh. N. Gandhi, Mines Manager,
		Sh. Govindji, Mines Supervisor
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	1.4771 HECT
3	Mine Code	07-GUJ-07014
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/248/2011
5	Name of the lessee, Address, phone, email and fax number	M/S SAURASHTRA CALCINE BAUXITE&ALLIED IND., HARSHAD ROAD /P.O-BHATIA,TA-KALYANPUR,DIST-DEVBHUMIDWARKA,PH NO-02891-233199, 233155 Email: scabalindia@gmail.com Fax No-02891-233166
6	Village	KENEDY
7	Taluka/Mandal	KALYANPUR
8	District	DEVBHUMI-DWARKA
9	Pincode	361315
10	State	GUJARAT
11	Post office	BHATIA
12	Nearest police station	BHATIA
13	Nearest Railway station	BHATIA
14	Date of Grant of Mining Lease	29/11/1982
15	Date of Execution	21/05/1983
16	Date of opening of Mine	
17	Date of first Renewal, if applicable and its period & expiry	Lessee had applied for first ML renewal on dtd-29/10/2002 and matter pending at State Govt. level
18	Date of second Renewal, if applicable and its period & expiry	-
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Lessee had applied for first ML renewal on dtd-29/10/2002 for next 20 years.
20	Name of the Nominated Owner with	Shri Dwarkadas Raichura
	Address, phone, email, fax number and	Harshad Road, P.OBhatia, Taluka-Kalyanpur, Dist-
	date of appointment	Devbhumi-dwarka Phone No- 02891-233199
21	Name of the Mine Agent with Address,	Shri Gulabbhai Pabari
	phone, email, fax number and date of	Harshad road /P.OBhatia,taluka-Kalyanpur,Dist-
	appointment	Devbhumidwarka,Ph no- 02891-233199
22	Name of the Mines Manager with	Not Appointed
	Address, phone, email, fax number and	
22	date of appointment in mines	D.T.A.
23	Name of the Mining Engineer,	NA
	Qualification and total experience with	
	Address, phone, email, fax number and	
24	date of appointment in mine Whether Geologist and Mining Engineer	NA
24	appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	IVA
25	Date of Approval of Mining	Mining Plan was approved vide letter No-682(23)-
23	Plan/Modified Mining Plan with five-year period and specific condition in approval	247/2002MCCM(N)UDP dtd 16.04.2003 for five year period.
	letter, if any.	

26	Date of Approval of Scheme of	Scheme of Mining was approved vide letter No-
	Mining/Modified Scheme of Mining with	682(23)MCCM-444/2008 (N) UDP dtd 01.09.2015 for 5
	five-year period and specific condition in	year period
	approval letter, if any.	
27	Mineral(s) granted in lease and proved for	Bauxite
	mining	
28	Method of Mining(Opencast,	Opencast
	Underground)	
29	Category (Fully Mechanised, Others or	Others
	Manual)	
30	Captive/Non Captive	Captive

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

Exp	loration			
SN	Item	Proposals (2016-17)	Actual work	Remarks
1a	Backlog of previous year	Not Proposed	Not Applicable	exploration by working pit & trial pits
1b	Exploration over lease area for Geological axis 1 or 2.	1 Trial Pit of 4mx4mx4m was proposed.	1 Trial Pit of 4mx4mx4m was done	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposals	Expenditure Rs-40000 incurred exp. So far	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposals	Nil	
1e	Balance reserves as on 01.04.2017	No Proposals	Balance Reserves as on 01.04.2017 Proved (111) – 70652MT Probable(122)-26861MT Mineral Resources Feasibility(211)- 30816MT	
1f	General remarks of inspecting officer on geology, exploration etc.	Shallow depth Bauxite mineralisation of 5 to 6 mts where exploration by trial pit serve the purpose.		

2.0 **Development**

SN	Item	Proposals (2016-17) & 2017-18	Actual work	Remarks
2a	Location of development w.r.t. lease area	Working was proposed along section M-M' south of the first year block.	Working carried out as per the proposed location but partly deviated due less production	Production proposed - 16031MT & Production achieved- 15978MT during 2016-17
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate bench for top soil proposed	Separate bench working done	No OB in the area
2c	Stripping ratio or ore to OB ratio	1:02	1:02	Top soil as OB
2d	Quantity of topsoil generation in m3	1350 CuM Top soil	844 CuM	
2e	Quantity of overburden generation in m3	Not Proposed	Nil	No OB in the area

2f	General remarks of inspecting	No overburden occurred in the area and 5% of total ROM which
	officer on development of pit	has clayish material is considered as waste.
	w.r.t. type of deposit etc.	

3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work	Remarks
3a	Number of pits proposed for production	Proposed in 1 Pit only	Achieved in 1 Pit only	
3b	Quantity of ROM mineral production proposed	16875 MT	15978	
3c	Recovery of salable/usable mineral from ROM production	High Grade Bauxite- 20% (Al2O3>50%) Low grade Bauxite 80% (Al2O3>35%) Abrasive & Refractory grade	More or less achieved as per the proposals	Recovery from total ROM
3d	Quantity of mineral reject generation	No Proposals	Nil	No Mineral rejection
3e	Grade of mineral reject generation and threshold value declared	No Proposals	Nil	No Mineral rejection
3f	Quantity of sub-grade mineral generation	No Proposals	Nil	No subgrade generation
3g	Grade of sub-grade mineral generation	No Proposals	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	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	No Proposals	Nil	
3k	Provision of mining machineries in mineral benches	Excavator-0.9M3 Tipper-15MT Jack Hammer-32	Excavator-0.9M3 Tipper-15MT Jack Hammer-32	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1 Bench of 5Mts height proposed in Bauxite. No OB in the area	Height of Bench in Ore- 5 Mts	No OB occurred in the area.
3m	Total area covered under excavation/pits	0.6270 На	0.9929 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:02	1.01	
30	Total area put in use under different heads at the end of year	Pit- 0.6270Ha Mineral Storage-0.0100 Infrastructure-0.0050 Road-0.01	Pit- 0.90Ha Reclaimed -0.150 Waste Dump-0.100 Infrastructure-0.010 Other-0.015	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2013-14 -: NA Yr-2014-15 -: NA Yr-2015-16 -: 17999 Yr-2016-17 -: 16031 Yr-2017-18 -: 15200	Yr-2013-14 -: 148 Yr-2014-15 -: 33 Yr-2015-16-: 10570 Yr-2016-17-: 15978 Yr-2017-18 -:6300 till date	
3q	General remarks of inspecting officer on method of mining etc.	Violation of rules 11(1), 3 rectification.	33 & 45(5)(b) of MCDR, 2	017 pointed for

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2016-17)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Concurrent use of OB top soil & waste proposed.	Concurrent OB top soil & waste used.	Simultaneous backfilling
4b	Location of topsoil, OB & mineral reject dumps	It was proposed that the waste generated during scheme period will be backfilled in west part of the lease area	Top soil and waste generated during the year is used in backfilling	Simultaneous backfilling
4c	Number of dumps within lease area and outside lease area	Not proposed	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	NA	
4e	Number of active & alive dumps	Nil	Nil	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilished	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Nil	
4i	Length of Retaining wall or garland drain all 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 (2016-17)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling by waste material proposed in mine out area where ore completely exhausted.	Backfilling by waste material is done in mine out area where ore is completely exhausted.	
5b	Area under backfilling of mined out area	844 CuM	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Concurrent use of topsoil for restoration or rehabilitation proposed	Concurrent use of topsoil is done as proposed.	
5d	Total area fully reclaimed & rehabilitated	844 CuM proposed for backfilling	Nil	Not done as some bauxite ore was still existing at proposed location
5e	General remarks of inspecting officer on backfilling, reclamation, et etc	Nil		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17)	Actual work	Remarks
6a	Whether Annual report on	Last day for submitting	Yes submitted	
	PMCP submitted on time and	Annual Return was 31 st	within stipulated	
	correctly - Rule 23E(2).	July of every year	time limit.	
	Details should be given in the			
	format as given in Annexure-			

6b	Management of worked/mined			
	out benches			
	i) Area available for			
	rehabilitation (ha)	Not Proposed	Nil	
	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			
6c	Compliance on reclamation	-		
	and rehabilitation by	_		
	backfilling	_		
	i) Voids available for	_		
	backfilling (L X B X D)	0.0411	0.0411	
	ii) Void filled by	-		
	waste/tailings			
	iii) Afforestation on the			
	backfilled area			
	iv) Rehabilitation by making	100M fencing	100 M fencing	
	water reservoir	1001121011011119	100 M Tomonig	
	v) Any other specific means			
6d	Compliance of Rehabilitation			No waste land
	of waste land within lease	Not Proposed	Nil	existed in ML
	i) Afforestation	1,0011oposed	1111	area
	ii) Area rehabilitated (ha)			
	iii) Methof of rehabilitation			
6e	Compliance of Environmental	Ambient Air Quality,	Monitoring carried	
	monitoring (core zone &	Water Quality, Noice	in core as well as	
	buffer zone)	Quality monitoring	buffer zone.	
		proposed		
6f	General remarks of inspecting	Environmental quality monitor	oring works was entrust	ed to the
	officer on PMCP compliance	outsourced consultant & relevant reports were produced during site		
	& progressive	inspection.		

7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise despatch proposed.	Bauxite is being dispatched grade wise	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	manual	manual	
7c	Different grade of mineral sorted out at mines	Grade wise hand sorting of Bauxite ore within mining lease proposed	Bauxite is hand sorted within the quarry for different grade, such as a abrasive grade, refectory grade, ceramic grade, cement grade, (low grade)	
7d	Any beneficiation process at mines	No beneficiation process is proposed	No beneficiation process is proposed	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mineral/ore is being conserved judiciously as the ore utilised up to the threshold value i.e. 30% Al2O3		

8.0 Environment

SN	Item	Proposals (2016-17)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The top soil to be generated during 2016-17 scheme period was proposed to spread on backfilled area.	The top soil generated during 2016-17 scheme period was used to spread on already backfilled area.	
8b	Concurrent use or storage of topsoil	Concurrent use of topsoil proposed during the year	The top soil generated during 2016-17 scheme period was used to spread on already backfilled area.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Concurrent use of topsoil proposed during the year hence separate dumping not proposed.	The top soil generated during 2016-17 of scheme period was used to spread on already backfilled area.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	Simultaneous backfilling
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	In the approved mining scheme it was proposed that the mined out land will be backfilled.	In the approved mining scheme it was proposed that the mined out land will be backfilled.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	40 Saplings over 100M ² were proposed	40 Saplings planted	
8g	Survival rate	NA	NA	
8h	Water sprinkling on roads to control airborne dust	It was proposed to sprinkling water on haul road.	sprinkling water on haul road being carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are			

9.0 Compliance of Rule 45

- • • •	y to compliance of fine it						
S.	Item	COMMENTS	Remarks				
N.							
	Status of submission of Online	M.R. Submitted upto till date					
	Monthly and Annual returns A.R. submitted for the- 2016-17 within						
		stipulated time					

S.	Item	Details GIVEN in	OBSERVATION OF	Remarks
N.		A.R.2016-17	/ OFFICER	
9b	Scrutiny of Annual return for	NA	NA	
	information on Mining			
	Engineer, Geologist and			
	Manager			
9c	Scrutiny of Annual return on	Pit- 0.90Ha	Pit- 0.90Ha	Violation of rules
	land use pattern for area under	Reclaimed -0.150	Reclaimed -0.150	11(1), 33 &
	pits, reclaimed area, dumps	Waste Dump-0.100	Waste Dump-0.100	45(5)(b) of MCDR,

	etc.	Infrastructure-0.010 Other-0.015	Infrastructure-0.010 Other-0.015	2017 pointed for rectification.
9d	Scrutiny of Annual return on afforestation	40 Saplings per year proposed	Survival rate not given	Further, Mine representatives were
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NA	NA	also advised to submit the AR online meticulously and should furnish correct costing, Ex- mine price, etc. as per IBM guidelines in future.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock of 269 MT	Found	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cement Grade- 820/MT Refractory-550/MT Cost of production- 324/MT	Cement Grade- 820/MT Refractory-550/MT Cost of production- 324/MT	
9i	Scrutiny of Annual return on fixed assets	NA	NA	
9k	Scrutiny of Annual return on mining machineries	Excavator-0.9M3 Tipper-15MT Jack Hammer-32	Excavator-0.9M3 Tipper-15MT Jack Hammer-32	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: -The last inspection of mine was carried out on dtd 18.04.2007 and violations of rules 13(1) and 23E(2) were observed and these violation rectified by the lessee vide letter No-GUJ/JAM/BUX-62 dtd 21.05.2007. This inspection was carried out in connection with Review of Mining Plan. During the inspection violation of rules 11(1), 33 & 45(5)(b) of MCDR,2017 were pointed for its rectification and violation letter was issued on dt 22.12.2017.
