MCDR INSPECTION REPORT

1<u>.0 GENERAL</u>

SN	Particulars	Details
1(a)	Name of the Mine	Asota Mewasa Bauxite Mines of M/s. Bombay Minerals
1(4)		Limited
1(b)	Name of Inspecting Officer	Sanjay M. Girhe
1(c)	Designation of Inspecting Officer	Sr. Mining Geologist
1(d)	Accompanying Mines Representatives	Shri Gunanand Roy (Agent of Mine)
		Shri K K Choudhary (Mines Manager)
1(e)	Type of Inspection	Review of Mining Plan
1(f)	Date of Inspection	28.09.2017
2	Total Lease Area (Ha) with breakup of	682.3892 Hect
	Non-forest and forest land	
3	Minecode	07GUJ07002
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/902/2011
5	Name of the lessee, Address, phone,	M/s. Bombay Minerals Limited.
	email and fax number	Jamnagar Dwarka Highway, Khambhalia-361305, Dist.
		Devbhumi Dwarka, State: Gujarat.
		Email: bmlamm_nan@yahoo.com
		Phone: 02833-236893/94
6	Village	Fax: 02833-234053 Ran, Mewasa, Mota Asota, Haberdi & Khakharda
6 7	Village Taluka/Mandal	Kan, Mewasa, Mota Asota, Haberdi & Khakharda Kalyanpur
8	District	Devbhumi Dwarka
9	Pin code	361315
10	State	Gujarat
11	Post office	Mewasa
12	Nearest police station	Bhatia
13	Nearest Railway station	Bhatia
14	Date of Grant of Mining Lease	26.01.1958
15	Date of Execution	09.08.1958
16	Date of opening of Mine	09.08.1958
17	Date of first Renewal, if applicable and its	Date of first Renewal Application- 08/08/1977
	period & expiry	Period- 20 Years
		Expiry Date-08/08/1998
18	Date of second Renewal, if applicable and	Date of Second Renewal Application-6/08/1997
	its period & expiry	Period- 20 Years
		Expiry Date-First Renewal Order made on
		05.02.1979,Second Renewal applied on 06.08.1997 form D
		issued on 13.08.1997 and its consent letter issued on
		01.10.2001 from State Government to us while lease under
19	Date of submission of renewal application	deemed renewal up to 31/03/2030 under MMDR-2015
17	if Mining Operations are continuing under	-
	deemed extension	
20	Name of the Nominated Owner with	Name of the Nominated Owner-Shri Hemul R
	Address, phone, email, fax number and	Shah(Nominated owner under section 76 of mines act 1952)
	date of appointment	Address-302/303,Rahul Enclave,A-Wing,Saibaba
		Nagar,Borivali-West,Mumbai-400092
		Phone- 02833-236893/94
		Fax No- 02833-234053
21	Name of the Mine Agent with Address,	Shri Gunanand Roy (Agent of Mine)
	phone, email, fax number and date of	M/s. Bombay Minerals Limited,
	appointment	Jamnagar Dwarka Highway, Khambhalia-361305, Dist.
		Devbhumi Dwarka, Gujarat
		Email: <u>bmlamm_nan@yahoo.com</u>
		Phone: 02833-236893/94
		Fax: 02833-234053
		Date of Appointment:24.08.2017

22	Name of the Mines Manager with	Shri K K Choudhary (Mines Manager)
22	Address, phone, email, fax number and	M/s. Bombay Minerals Limited,
	date of appointment in mines	Jamnagar Dwarka Highway, Khambhalia-361305, Dist.
	date of appointment in fillies	Devbhumi Dwarka, Gujarat
		Email: bmlamm_nan@yahoo.com
		Phone: 02833-236893/94
		Fax: 02833-236893/94
		Date of Appointment: 15.02.2009 Qualification: B.E. (Mining)
23	Name of the Mining Engineer	
23	Name of the Mining Engineer,	Shri K K Choudhary (Mines Manager)
	Qualification and total experience with	M/s. Bombay Minerals Limited,
	Address, phone, email, fax number and	Jamnagar Dwarka Highway, Khambhalia-361305, Dist.
	date of appointment in mine	Devbhumi Dwarka, Gujarat
		Email: bmlamm_nan@yahoo.com
		Phone: 02833-236893/94
		Fax: 02833-234053
		Date of Appointment:15.02.2009
2.4	Wild Collins IM: E	Qualification: B.E. (Mining)
24	Whether Geologist and Mining Engineer	We have Appointed to Shri K.K Choudhary as Mining
	appointed in mines satisfy the rule 42 &	Engineer and Mr Vivek Shah as a Geologist to satisfy the
	carrying out their duties as per rule 43 &	rule 42 & carrying out their duties as per rule 43 & 44.
25	44.	
25	Date of Approval of Mining	-
	Plan/Modified Mining Plan with five-year	
	period and specific condition in approval	
26	letter, if any.	D . CA 1 CG 1 CM: 1 01/01/2014
26	Date of Approval of Scheme of	Date of Approval of Scheme of Mining- 01/01/2014
	Mining/Modified Scheme of Mining with	Five-year period-2013-14 to 2017-18
	five-year period and specific condition in	Specific condition in approval letter, if any- Annexure No
27	approval letter, if any.	1(Scheme of Mining Approval Letter)
27	Mineral(s) granted in lease and proved for	Bauxite
20	mining	OTTEN A
28	Method of Mining(Opencast,	OTFM
20	Underground)	G . A (OPPRIS
29	Category (Fully Mechanised, Others or	Category-A (OTFM)
	Manual)	
30	Captive/Non Captive	Captive
	<u> </u>	I .

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

SN	Item	Proposals	Actual work	Remarks
		(2016-17)	(2016-17)	
1a	Backlog of previous year	In approved Mining	Lessee has put trial pits only	
		scheme it was	during mining scheme period.	
		proposed to put	No drilling has been carried out	
		20bore holes and 40	during scheme period; Data	
		nos trial pits during	generated by pitting work were	
		Mining Scheme	utilized in reserve estimation. In	
		Period. In 2016-17	2016-17 Lessee has carried out	
		total 8 trial pits	all 8 pits which was proposed	
		were proposed.	for year 2016-17	
1b	Exploration over lease area for	-	425.7013 Ha.	
	Geological axis 1 or 2.			
1c	Exploration Agency &		Exploration agency-Lessee	
	Expenditure in lakh Rupees	-	Himself has done exploration	
	during the year		work	
			M/s. Bombay Minerals Ltd.,	
			Jamnagar-Dwarka Highway,	
			Jam-Khambhalia 361 305, Dist:	
			Devbhumi Dwarka, State: -	
			Gujarat.	
			Phone No-02833-236893/94	

			Email- bmlamm_nan@yahoo.com Fax No-02833-234053
1d	Balance area to be explored to bring Geological axis in 1 or 2		Balance area to explore 256.6879 Ha
1e	Balance reserves as on 01.04.2017	-	Total Mineral reserve 1.Proved Mineral Reserve(111) =45290852 MT 2.Probable Mineral reserve(122) =81,52,605 MT Total-5,34,43,457 MT Balance reserve-5,34,43,457 As on 1/04/2017
1f	General remarks of inspecting officer on geology, exploration etc.		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
		(2016-17)	(2016-17)	
2a	Location of development	Bhopamandhi	Bhopamandhi	
	w.r.t. lease area	Khakharda-I	Khakharda-I	
		Karandhar-N	Karandhar-N	
2b	Separate benches in topsoil,	Separate benches in ore	Achieved as per the	
	overburden and mineral (Rule	& top soil, overburden	proposals	
	15)	proposed		
2c	Stripping ratio or ore to OB	2016-17= 1:0.01	2016-17= 1:0.0012	
	ratio			
2d	Quantity of topsoil generation	2016-17= 4850 m3 (Soil	2016-17= 12050 m3	
	in m3	is consider as OB)	(Soil is consider as OB)	
2e	Quantity of overburden	$2016-17=102818 \text{ m}^3$	$2016-17=12050 \text{ m}^3$	
	generation in m3	(Soil is consider as OB)	(Soil is consider as OB)	
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	2016-17 total no. of trial pits proposed =08	08 Trial pits exploration carried out by lessee	
3b	Quantity of ROM mineral production proposed	2016-17=3956000 MT	2016-17=1839013 MT	
3c	Recovery of salable/usable mineral from ROM production	2016-17 = 3758200 MT	2016-17=1839013 MT	
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	In the proposed Mining there is no possibility of production of subgrade material hence no need for making provision of stacking of subgrade material	NIL	
3g	Grade of sub-grade mineral generation	In the proposed Mining there is no possibility of production of subgrade material hence no need	NIL	

			sta		g provisi f subgra						
3h	Manual / Mechanised metho adopted for segregating from ROM		Ma	nual			Manual				
3i	Any analysis or beneficiation study proposed & carried ou sub-grade mineral and reject	for	NII				NIL				
3j	Provision of drilling & blasting in mineral benches		Drilling and blasting proposed to be required for 30% of ROM bauxite production only.		Quantity consum are(Smamm) 1. Slurry Kg. 2.Deton 151 nos 3.Safety 4. Deton Mtr 5. Amm 950 Kg.	ed during the during t	ng year Jp to 32 sive -96 ordinary) 41.56 M Guse-325	.50)- Its 55			
3k	Provision of mining machine in mineral benches	ineries		ries Excavator (2M³)-8 no Tipper(25MT)-15 nos Jack Hammer(32mm) 14nos Compressor(100cft/m nos Water Tanker-2 nos		nos nm)- t/m)-5	Excavator(2M³)-4 nos Tipper(25MT)-9 nos Jack Hammer (32mm)- 4nos Compressor (100cft/m)- 2nos Water Tanker-4 nos				
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	be of be h		In ore 1 4m	In,O B/W aste Nil	-	Num ber of benc h Heig ht of benc h	In ore 1 4m	In,O B/W aste Nil		
3m	Total area covered under excavation/pits		500	M^2			18390 N	\mathbf{I}^2			
3n	Ore to OB ratio for the pit/mine during the year	1:0.	.01				1:0.0012	2			
30	Total area put in use under different heads at the end of year	Pit-277.6952 ha. (total scheme period) Waste/reject8.4000ha. Others-16.8212		178.431	На						
3p	Production of ROM mineral during last five- year period, as applicable	Yr- Yr- Yr- Yr- Yr- Tot	2013 2014 2015 2016 2017	14=391 15=39 5-16=39 5-17=39	17728 M 75458 N 30010 N 56000 N 39878 N	MT MT MT	Yr-2013 Yr-2014 Yr-2015 Yr-2016 Yr- 2017	-15=18 -16=18 -17=18	3964 M 39940 N 39013 N	T MT MT	
3q	General remarks of inspecting officer on method of mining etc.	Nil									

SN	Item	Proposals	Actual work	Remarks
		(2016-17)	(2016-17)	
4a	Separate dumping of topsoil, OB	Proposed as 86000 M3	The Overburden as soil	
	& mineral reject (Rule 32, 33)		has utilized in plantation,	
			stacking on old	
			plantation, garland	
			maintains well as road	
			repairing work	
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	Nil	
4c	Number of dumps within lease	Nil	Nil	
	area and outside lease area			
d	Location of dumps w.r.t. ultimate	Nil	Nil	
	pit limit (Rule 16)			
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	Actual work	Remarks
		(2016-17)	(2016-17)	
5a	Status on part or full extraction	Backfilling of waste	Backfilling of waste material	
	of mineral from mined out area	material will be done is	is done in such area where	
	before starting backfilling	such area where bauxite	bauxite mineral has mine out	
		mineral has been mine out	up to complete thickness & no	
		up to complete thickness &	bauxite mineral is available	
		no bauxite mineral is		
		available		
5b	Area under backfilling of	Area under backfilling In	Area under backfilling In	
	mined out area	$2016-17 = 19261M^2$	$2016-17 = 312 \text{ M}^2$	
5c	Concurrent use of topsoil for	Concurrent use of top soil	312 M ² area has backfilled by	
	restoration or rehabilitation of	proposed.	OB/Waste	
	mined out area (Rule 32)	$2016-17=4850 \text{ m}^3$	Soil is spread over backfilled	
			area.	
5d	Total area fully reclaimed &	Proposed as 19261 M2	312 M ² area has backfilled by	
	rehabilitated		OB/Waste	
			Soil is spread over backfilled	
			area.	
5e	General remarks of inspecting	Nil		
	officer on backfilling,			
	reclamation etc			

6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
		(2016-17)	(2016-17)	
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.	Yes	We have submitted	

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	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)1736818m ³ (ii)107863 m ³ (iii)0.1500 ha.& 300 sapling (iv) 30.8239 ha. (v) 100	(i)NIL (ii)NIL (iii)0.18 ha.& 360 saplings (iv) NIL (v) NIL
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Methof of rehabilitation	NIL	NIL
бе	Compliance of Environmental monitoring (core zone & buffer zone)	Air, Water & Noise quality monitoring is proposed at regular interval.	Air, Water & Noise quality monitoring is carried out at regular interval.
6f	General remarks of inspecting officer on PMCP compliance & progressive	Nil	

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	Grade-wise sorting within lease area	Grade-wise sorting within lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	manual	manual	
7c	Different grade of mineral sorted out at mines	Usually this bauxite is hand sorted within the quarry for different grade, such as abrasive grade, Ceramic grade and cement grade (Low grade).	Usually this bauxite is hand sorted within the quarry for different grade, such as abrasive grade, Ceramic grade and cement grade (Low grade).	
7d	Any beneficiation process at mines	Not Proposed.	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
		(2016-17)	(2016-17)	
8a	Separate removal and	In General, area proposed	2016-17 =1.35 ha area has	
	utilization of topsoil (Rule 32)	for Mining area devoid of	backfilled by 12050 m ³	
		top soil except in few	OB/Waste	
		patches. Soil will be first	Soil is spread over backfilled	
		scraped and stacked on	area.	
		statutory barrier &		
		proposed to spread over		

		backfilled area.	
8b	Concurrent use or storage of topsoil	top soil propose to spread on backfilled area	312 M ² area has backfilled by OB/Waste Soil is spread over backfilled area.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	312 M ² area has backfilled by OB/Waste Soil is spread over backfilled area.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	The waste generated is proposed to be backfilled in mine out land & top soil spread over it.	312 M² area has backfilled by OB/Waste Soil is spread over backfilled area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phase wise reclamation & rehabilitation proposed.	1.35 ha area has backfilled by 12050 m³ OB/Waste Soil is spread over backfilled area. We have planted 360 nos of sapling in 0.18 ha backfilled area
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	300 saplings proposed every year. Year wise plantation program Can Summarized as follows Year No Area of M² sapli ng 2016-17 300 1500 2017-18 300 1500	The Overburden as soil has utilized in plantation, stacking on old plantation, garland maintains well as road repairing work We have planted 360 nos of sapling in 0.18 ha backfilled area
8g	Survival rate	-	Achieved as 75%
8h	Water sprinkling on roads to control airborne dust	It is proposed to sprinkling water on haul road	We are sprinkling water on haul road regularly
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Nil	

9.0 Compliance of Rule 45

$\overline{}$	Term	COMMENTS		D1
S.	Item	COMMENTS		Remarks
N.				
	Status of submission of	M.R. Submitted upto – Dec-2017		Submitted
	Monthly and Annual returns	A.R. submitted upto- Year 2016-17		
S.	Item	Details GIVEN in A.R.	Observation of	Remarks
N.			I/Officer	
9b	Scrutiny of Annual return for	Detail of Mining Engineer,	Nil	
	information on Mining	Geologist and Mines Manager in		
	Engineer, Geologist and	Annual Return 2016-17 are given		
	Manager			
9c	Scrutiny of Annual return on	Details on land use pattern for	Nil	
	land use pattern for area	area under pits, reclaimed area,		
	under pits, reclaimed area,	dumps etc. are given in Annual		
	dumps etc.	Return 2016-17		
9d	Scrutiny of Annual return on	Detail of afforestation in Annual	Nil	
	afforestation	Return 2016-17 are given		
9e	Scrutiny of Annual return on	NIL	Nil	
	mineral reject generation			

	(Grade & quantity)		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Detail of ROM stock and/or graded ore are given in Annual Return 2016-17	Also advice to incorporate the same in submitted MP
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Detail of sale value, Ex. Mine price & production cost are given in Annual Return 2016-17	Nil
9i	Scrutiny of Annual return on fixed assets	We have given detail of fixed assets in Annual Return 2016-17	Nil
9k	Scrutiny of Annual return on mining machineries	We have given detail of mining machineries in Annual Return 2016-17	Details on in-house & contractual machineries deployed in mining operations asked to provide in MP

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

No outstanding violations in respect of previous inspections observed whereas current inspection was carried out on dtd 28.09.2017 in connection with Review of Mining Plan. During inspection, no violations were pointed out.
