INSPECTION REPORT

1.0 GENERAL

$\overline{}$	ENERAL	
SN	Particulars	Details
1(a)	Name of the Mine	Kenedy Bauxite Mine, Survey No-506(P) of M/s Bharat Abrasive & Chemical Ind.
1(b)	Name of Inspecting Officer & Designation	Sanjay M. Girhe, Sr. Mining Geologist
		Sh. S K Upadhyay, Mines Agent & Sh Vivek Shah,
1(c)	Accompanying Mines Representatives	Geologist
1(d)	Type of Inspection	Mining Plan
1(e)	Date of Inspection	01.11.2017
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area- 32.375 ha (Non forest land)
3	Minecode	07GUJ07015
4	IBM Registration Number under rule 45 of	IBM/4988/2011
	MCDR, 1988	
5	Name of the lessee, Address, phone, email	M/s. Bharat Abrasives & Chemical Industries.
	and fax number	M/s. Bharat Abrasives & Chemical Industries
		Prabhu Chamber,1 Shreeji Palace,
		Porbandar - 306575, Dist. Porbandar
		Pincode-360575, Email-bacikenedy@gmail.com
6	Village	Kenedy
7	Taluka/Mandal	Kalyanpur
8	District	DevbhumiDwarka
9	Pincode	361305
10	State	Gujarat
11	Post office	Bhatia
12	Nearest police station	Bhatia
13	Nearest Railway station	Bhatia
14	Date of Grant of Mining Lease	07/07/1979
15	Date of Execution	16/10/1979
16	Date of opening of Mine	16/10/1979
17	Date of first Renewal, if applicable and its	15/10/1998
	period & expiry	
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application	NA
	if Mining Operations are continuing under	
	deemed extension	
20	Name of the Nominated Owner with	Name of the Nominated Owner- Mr. Bharat Kumar P
20	Address, phone, email, fax number and	Makhecha
	1	Address- M/s. Bharat Abrasives & Chemical Industries
	date of appointment	
		Prabhu Chamber, 1 Shreeji Palace,
		Porbandar - 306575, Dist. Porbandar
21	NY C.1 NO. 1 1111	Pincode-360575, Email- <u>bacikenedy@gmail.com</u>
21	Name of the Mine Agent with Address,	Name of the Mine Agent- Mr. Dhwanil Antani
	phone, email, fax number and date of	Address- M/s. Bharat Abrasives & Chemical Industries
	appointment	Prabhu Chamber,1 Shreeji Palace,
		Porbandar - 306575, Dist. Porbandar
		Pincode-360575, Email-backenedy@gmail.com
22	Name of the Mines Manager with Address,	Name of the Mines Manager- Mr. Joshi Jitesh Maganlal
	phone, email, fax number and date of	Address- M/s. Bharat Abrasives & Chemical Industries
	appointment in mines	Prabhu Chamber,1 Shreeji Palace,
		Porbandar - 306575, Dist. Porbandar
		Pincode-360575, Email- <u>bacikenedy@gmail.com</u>
23	Name of the Mining Engineer,	Name of the Mining Engineer-Mr. Joshi JiteshMaganlal
23	Qualification and total experience with	Qualification-Diploma In Mining Engineering
	Address, phone, email, fax number and	Total experience-15 Years
	date of appointment in mine	Address-M/s. Bharat Abrasives & Chemical Industries

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		Prabhu Chamber,1 Shreeji Palace,
		Porbandar - 306575, Dist. Porbandar
		Pincode-360575
		Email-bacikenedy@gmail.com
		Date of Appointment -20/11/2016
24	Whether Geologist and Mining Engineer	Mr. Joshi JiteshMaganlal as Mining Engineer and Mr
	appointed in mines satisfy the rule 55 &	Satpal Singh Raghuwanshi as a Geologist appointed to
	carrying out their duties as per rule 56 &	satisfy the rule 55 & carrying out their duties as per rule
	57.	56 & 57 of MCDR,2017.
25	Date of Approval of Mining Plan/Modified	Mining Plan approved vide letter No-
	Mining Plan with five-year period and	682(23)(908/99)MCCM(N)UDP dtd 15.12.99
	specific condition in approval letter, if any.	Mining Plan period-1998 to 2003 No specific condition in
		approved Mining Plan
26	Date of Approval of Scheme of	Date of Approval of Scheme of Mining- 11/02/2015
	Mining/Modified Scheme of Mining with	Five-year period-2015 to 2019
	five-year period and specific condition in	No specific condition in approved Scheme of Mining
	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	Category A OTFM
	Manual)	
30	Captive/Non Captive	Captive

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	No Proposals / Nil	The area was fully explored by 34	
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	boreholes and 21 pits. Therefore, no exploration proposed	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No exploration was proposed during the year 2016-17	Previous Exploration was carried out by the agency lessee himself has done exploration work M/s. Bharat Abrasives & Chemical Industries Prabhu Chamber, 1 Shreeji Palace, Porbandar - 306575, Dist. Porbandar Pincode-360575 Email-bacikenedy@gmail.com	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	The area was fully explored by 34 boreholes and 21 pits. Therefore, no exploration proposed	
1e	Balance reserves as on 01.04.2016	Total Mineral reserve 1)Proved Mineral Reserve(111) =31,98,200 MT 2)Probable Mineral	Total Mineral reserve 1)Proved Mineral Reserve(111) =29,23,985 MT 2) Probable Mineral	

			reserve(122) =NIL MT Total-31,98200MT	reserve(122) =NIL MT Total-29,23,985 MT	
1	lf	General remarks of inspecting officer on geology, exploration	All the explorations carried highlighted in approved Sci	1 1 7 1	nd it is
		etc.			

2.0 Development

SN	Item	Proposals	Actual work	Remarks
		(2016-17)	(2016-17)	
2a	Location of development w.r.t.	In the year 2016-17 north	Mine working done as	
	lease area	side of the Lease area	per the proposed	
		near pit no. 18	locations & also	
			worked in other area	
			partly where no	
			proposals were given	
2b	Separate benches in topsoil,	Top soil = NIL	Top soil = NIL	
	overburden and mineral (Rule 15)	OB= NIL	OB= NIL	
		Mineral Bauxite = 4.5	Mineral Bauxite = 4.5	
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.05	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	10450 M ³	NIL	
2f	General remarks of inspecting			
	officer on development of pit	Nil		
	w.r.t. type of deposit etc.			
	3 1 14 41			

3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
3a	Number of pits proposed for production	In Pit 18 by formation of 2 benches & in some other pit area as earmarked on plate-4B	Mine working during the year carried out on proposed locations with some variation where no proposals were given.	Total 21 working pits are existing in ML area.
3b	Quantity of ROM mineral production proposed	522975 MT	993 MT	
3c	Recovery of salable/usable mineral from ROM production	Not proposed	NIL	
3d	Quantity of mineral reject generation	Not proposed	NIL	
3e	Grade of mineral reject generation and threshold value declared	No mineral rejects. Threshold value Min 30% of Al2O3	No mineral rejects generated as material is being consumed up to threshold value of 30% of Al2O3	
3f	Quantity of sub-grade mineral generation	Not Proposed	NIL	
3g	Grade of sub-grade mineral generation	Not Proposed	NIL	
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	Not Proposed	No such study carried out by the lessee	
3j	Provision of drilling & blasting in mineral benches	As per required used through other agency for	As per required used through other agency	

		blasting	for blasting. Jack Hammer drilling & blasting is done if required
3k	Provision of mining machineries in mineral benches	Proposed mining machineries Excavator, tipper & dumper	Actual working mining machineries Excavator, tipper & dumper used.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	4.5mtr.	4.5 to 5.0 mtr. Achieved during proposed working
3m	Total area covered under excavation/pits	In 2016-17 proposed area 28412m ²	In 2016-17 very less quantity of production achieved so area is not degraded that much
3n	Ore to OB ratio for the pit/mine during the year	1:0.05	1:0.05
30	Total area put in use under different heads at the end of year	Pit-10.99 Ha Waste dumps-0.436Ha Road-0.8 Ha Others-0.35Ha	Pit-10.39 Ha Waste dumps-0.436Ha Road-0.8 Ha Others-0.35Ha
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2012-13: 580400 MT Yr-2013-14: 596700 MT Yr-2014-15:- NIL Yr-2015-16: 594250 MT Yr-2016-17: 522975 MT	2012-13 = 5630 MT 2013-14 = 196042 MT 2014-15 = NIL 2015-16 = 273222 MT 2016-17 = 993 MT
3q	General remarks of inspecting officer on method of mining etc.	Nil	,

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)	Lease area is devoid of top soil but separate stacking of lateritic OB proposed & earmarked on plate-4B	Worked as per the given proposals but partly deviated due less OB generation during the year	
4b	Location of topsoil, OB & mineral reject dumps	Location OB dumping proposed	Worked as per the given proposals but partly deviated due less less OB generation during the year	
4c	Number of dumps within lease area and outside lease area	Within the lease area	OB dumps-1 Mineral stacks-2	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Separate waste dumping earmarked in Plate-3 &4A to 4E	NIL	
4e	Number of active & alive dumps	Not in proposal	NIL	
4f	Number of dead dumps	Not in proposal	NIL	
4g	Number of dumps stabilished	Not in proposal	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	Not in proposal	NIL	
4i	Length of Retaining wall or	Not in proposal	NIL	

	garland drain all along dump			
4j	Number of settling ponds	Not in proposal	NIL	
4k	Specific comments of			
	inspecting officer	Nil		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals 17)	(2016-	Actual work 17)	(2016-	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	10450 CuM		Not done due to production achie the year		
5b	Area under backfilling of mined out area	1810 M ²		NIL		
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not in proposals		NIL		
5d	Total area fully reclaimed & rehabilitated	0.254 Hect.		NIL		
5e	General remarks of inspecting officer on backfilling, reclamation etc	Nil				

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (201 17)	16- Actual work (2016- 17)	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2).	Yes	Yes submitted Annual report on PMCP in time.	
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	Year 2016-17 i) 0.254 Hect ii) 0.02 Hect iii) 50 Saplings iv) 0.25 Hect. (for five year) v) - vi) -	Year 2016-17 NIL 0.02 Hect. 100 Saplings 0.45 Ha (cumulative to till)	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Methof of rehabilitation	NIL	NIL	

6e	Compliance of Environmental			Ambient Air Quality
	monitoring (core zone &	Ambient	One	Monitoring done Quarterly
	buffer zone)	air quality		once in year(Except
		Water	One	Monsoon Season)
		Quality		Water analysis done
		Noise	One	quarterly once in a year
		Level		Noise measurement done
		survey		quarterly once in a year
				(Except Monsoon Season)
6f	General remarks of inspecting	Environmental Monitoring was given to outsource Consultant and		
	officer on PMCP compliance	requisite reports were submitted during inspection.		
	& progressive			

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
		(2016-17)	(2016-17)	
7a	ROM Mineral dispatch or	522975 MT, Grade-wise	993 MT &Grade-wise	
	grade-wise sorting within lease	sorting within lease area	sorting within lease	
	area	proposed	area done	
7b	Method of grade-wise mineral	Manual sorting proposed	Manual sorting done	
	sorting i.e. manual or		for desired grade	
	mechanical			
7c	Different grade of mineral	Usually this bauxite is	Hand sorting within	
	sorted out at mines	hand sorted within the	the quarry for	
		quarry for different grade,	different grade, such	
		such as abrasive grade,	as abrasive grade,	
		Ceramic grade and	Ceramic grade and	
		cement grade (Low	cement grade (Low	
		grade).	grade) done.	
7d	Any beneficiation process at	Not Proposed	Not Applicable	
	mines			
7e	General remarks of inspecting	Bauxite ore being consumed fully up to the threshold value i.e. 30% Al2O3 as non-plant grade (NPG). Only 10-15% recovered as Plant grade ore generated from total ROM		
	officer on Mineral			
	conservation & beneficiation			
	issues			

8.0 Environment

SN	Item	Proposals (2016-17)	Actual work (2016- 17)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	NIL	
8b	Concurrent use or storage of topsoil	Not Proposed	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Provisions of separate stacking of OB dumps given	Very less OB generated during the year due to less production	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Overburden used for backfilling purposes & plantation & road repairing work proposed	Very less OB generated during the year due to less production	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes, Proposed	Yes, implemented at mine areas.	

8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Afforestation-Each year 50 saplings are proposed over 500 m ² . Afforestation proposed over backfilled area.	Total 100 nos. of sapling in 0.05 ha over backfilled area planted
8g	Survival rate	Survival Rate- 75% Proposed	Survival Rate- Achieved 70%
8h	Water sprinkling on roads to control airborne dust	It is proposed to sprinkling water on haul road	Sprinkling of water on haul done.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Due less availability of top soil in the lease area, afforestation programme not attended up to that extent by the lessee.	

9.0 Compliance of Rule 45

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 on	
	-	01.06.2017	

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	Details of Mining Engineer & Geologist were given in Annual Return	Mr. Joshi JiteshMaganlal Date of Appointment- 20/11/2016 Mr Satpal Singh Raghuwanshi, Geologist appointed	Both Mining Engineer & Geologist were present during inspection
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-10.99 Ha Waste dumps- 0.436Ha Road-0.8 Ha Others-0.35Ha	Pit-10.99 Ha Waste dumps-0.436Ha Road-0.8 Ha Others-0.35Ha	
9d	Scrutiny of Annual return on afforestation	50 saplings proposed with survival rate of 75%	100 saplings planted & achieved 70% survival rate	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not Given	NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM/NPG Stocks reported in AR: 219047MT as on 31.03.2017	Reported in Annual Return. Further, advice to resurvey the quantity on regular interval	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine Price -Cement Grade- 390/MT -Refractory-750?MT Cost of Production -Other than Plant Grade-345/MT -Plant Grade-664/MT	Cost of production was computed correctly taking into all applicable aspects like DMF, NMET, etc	
9i	Scrutiny of Annual return on fixed assets	Detail of fixed assets given in Annual Return	Total fixed assets for land, industrial, etc. are furnished as Rs-1864459000	

9k	Scrutiny of Annual return on	Proposed mining	Actual working mining	
	mining machineries	machineries	machineries Excavator,	
		Excavator, tipper &	tipper & dumper used.	
		dumper		

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 14.09.2015 and violations of rules 13(1), 23E(2) & 42(1)(c)(i) were observed and these violation rectified by the lessee vide letter No-BACI/IBM/2015-16/520 dtd 09.01.16. This inspection was carried out for evaluation of online templates filled by the lessee for the year 2016-17. During the inspection violation of rules 11(1), 14 & 33 of MCDR,2017 were pointed for its rectification and violation letter was issued on dt 02.01.2018.
