1) 11		Report		
	of Inspecting officer:	Mr. Prem Prakash		
$\frac{2) \text{ Design}}{2}$		Dy. Controller of Mines		
3) Accompanying mine official with designation		Mr. Suresh Kulal, V.P (Operations)		
		Mr. Amit Kaisukar Mine Manager		
		Mr. Ramaprasad.K.V. Geologist		
	f Inspection	19-09-2017 for verification of Star Rating		
5) Date of	f Previous Inspection	19-04-2017		
61 J J		ERAL INFORMATION		
Sl.No	Particulars	Details		
1	Name of the Mine	Kalane Iron Ore Mine		
2	Total Lease Area (Ha) with breakup of	Total 32.25 Ha Forest: Nil		
	Non-forest and forest land	Non Forest:32.25 Ha		
3	Minecode	30MSH28029		
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/6218/2011		
5	Name of the lessee, Address, phone,	Minerals and Metals,		
	email and fax number	34, Ashutosh, Napeansea Road,		
		Mumbai-400 036.		
		Phone: 022 23645046, 022 23636207		
		srivasta@bom5.vsnl.net.in		
6	Village	Kalane		
7	Taluka/Mandal	Dodamarg		
8	District	Sindhudurg		
9	Pincode	416 511		
10	State	Maharashtra		
11	Post office	Kalane		
12	Nearest police station	Dodamarg		
12	Nearest Railway station	Sawantwadi		
13				
	Date of Grant of Mining Lease Date of Execution	6.03.2009		
15		16.3.2009		
16	Date of opening of Mine	19.03.2009		
17	Date of first Renewal, if applicable and	-		
10	its period & expiry			
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			
20	Name of the Nominated Owner with	Mr. Sandeep Shrivastava		
	Address, phone, email, fax number and	Minerals and Metals		
	date of appointment	34, Ashutosh, Napeansea Road,		
		Mumbai 400 036.		
		Phone: 022 23645046, 022 23636207		
		srivasta@bom5.vsnl.net.in		
21	Name of the Mine Agent with Address,	Mr.Manoj V Thakur		
	phone, email, fax number and date of	Kalane Iron Ore Mine		
	appointment	Village Kalane, Taluka: Dodamarg,		
	**	Dist: Sindhudurg. (M.S).		
		Phone: 9769965711.		
		Date of Appointment: 16.03.2009		
	Nome of the Mines Manager with			
22	e			
22	-			
22	Address, phone, email, fax number and date of appointment in mines	Kalane Iron Ore Mine Village Kalane, Taluka: Dodamarg,		

	Address, phone, email, fax number and	27 years experience
	date of appointment in mine	Kalane Iron Ore Mine
		Village Kalane, Taluka: Dodamarg,
		Dist: Sindhudurg. (M.S).
		Phone:9769965790
		Date of Appointment: 01.06.2011
24	Whether Geologist and Mining Engineer	Yes
	appointed in mines satisfy the rule 42 &	
	carrying out their duties as per rule 43 &	
	44.	
25	Date of Approval of Mining	Mining Plan Approval Letter No: MP/MAN-
	Plan/Modified Mining Plan with five-	373(MAH)/GOA/98-99 dated 16/3/2009 and
	year period and specific condition in	Modified Mining Plan Approval letter No:
	approval letter, if any.	MP/SIND/GOA/Fe-156-SZ dt 03.02.2011
26	Date of Approval of Scheme of	Scheme of Mining. Approval letter No:
	Mining/Modified Scheme of Mining	MSH/MECH-53(MAH)/GOA/2013-14
	with five-year period and specific	dated 20.03.2014, 2014-15 to 2018-19.
	condition in approval letter, if any.	
27	Mineral(s) granted in lease and proved	Iron Ore
	for mining	
28	Method of Mining (Opencast /	Opencast
	Underground)	
29	Category (Fully Mechanised, Others or	Fully Mechanized
	Manual)	

II. SCIENTIFIC MINING

[i.r.o.year (2016-17) or cumulative, as applicable.]

Sl. No	Item	Proposals (2016-17)	Actual Work (2016-17)	Remarks
		A. EXPLORATIO	N:-	
1a	Backlog of Previous Year	7 BH with 420 m drilling	5 Nos with 242 m	During 2014-15 to 2016-17, 24 bore holes were proposed and 24 boreholes drilled.
1b	Exploration Over Lease area for Geological Axis 1 or 2	-	-	Exploration will be proposed under G1 and G2 during next 5 year period
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Expenditure Rs.4.20 lakh	Expenditure Rs.3.39 lakhs	Cumulative Rs.72,96,390/- for 4334.7 m drilling
1d	Balance area to be explored to bring Geological axis 1 or 2	-	-	Around 5 Ha. And will be proposed for exploration during next 5 year period

1e	Balance reserves as on 01/04/2017	-	In Tons (111 Code) 8,91,191 (211 Code) 16,24,000 TOTAL 25,15,191
1f	General remarks of inspecting officer on geology, exploration etc.		satisfactory

		B. DEVELOPME	NT	
2a	Location of development w.r.t. lease area	As per development plan	As per development plan	Nil
2b	Separate benches in topsoil, overburden and mineral (Rule 15)		No top soil is available	Nil
2c	Stripping ratio : ore to OB ratio	O:OB = 1: 0.99	O:OB = 1: 0.98	Nil
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil
2e	Quantity of overburden generation	7,35,460 Tons	7,00506Tons	Nil
		C. EXPLOITATI	ON	
3a	Number of Pit Proposed for Production	One	One	Nil
3b	Quantity of ROM mineral production proposed	7,41,874 Tons	7,11,857 Tons	Nil
3c	Recovery of Sailable/ Usable Mineral from ROM Production	100%	100%	Nil
3d	Quantity of mineral reject generation	Nil	Nil	NA
3e	Grade of mineral reject generation and threshold value declared	NA	NA	NA
3f	Quantity of sub-grade mineral generation	Nil	Nil	NA
3g	Grade of sub-grade mineral generation	Nil	Nil	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Method	Mechanised Method	Nil
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	During the year : Nil	Nil	NA
3j	Provision of drilling & blasting in mineral benches	Not proposed	Not Done	NA
3k	Provision of mining machineries in mineral benches	Provided	Provided	NA
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	yes	Nil
3m	Total area covered under excavation/pits	15.0 Ha	15.0 Ha	Proposed at the end of 5 years.
3n	Ore to OB ratio for the pit/mine during the year	O:OB = 1: 0.99	O:OB = 1: 0.98	Nil

2	Total area put in use under different	22.01 Ha	About 21 ha	Proposed at the end
30	heads at the end of year			of 5 years.
3р	Production of ROM mineral during last five-year period, as applicable	2014-15; 7,37,884 Tons 2015-16: 7,35,490Tons 2016-17: 7,41,874 Tons	2014-15; 7,37,681Tons 2015-16: 7,35,421 Tons 2016-17: 7,11,857 Tons	Scheme of Mining is approved for the period 2014-15 to 2018-19
	D. SOLID W	ASTE MANAGEM	ENT - DUMPING	
4a	Separate Dumping of Topsoil, OB and Mineral Rejects (Rule 32,33)	yes	yes	
4b	Location of Topsoil, OB and Mineral Rejects Dumps	Not proposed	Not done	Nil
4c	Number of Dumps within Lease	Nil	Nil	1 No old dead O/B dump is within ML
4d	Location of Dumps, within Ultimate Pit Limit	Nil	Nil	
4e	Number of Active & Alive Dumps	Nil	Nil	Back-filling
4f	No of Dead Dumps	Nil	Nil	One earlier created small dead dump is located within ML which is afforested.
4g	No of Dumps Established	Nil	Nil	
4h	Whether Retaining Wall or Garland drain along Dumps are there	Nil	Nil	Dump is stabilised
4i	Length of Retaining Wall or Garland drain along Dumps	Nil	Nil	NA
4j	No of Settling tanks	Nil	Nil	One settling tank
	E. SOLID WA	STE MANAGEMEN	NT - BACKFILLING	
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	Mineral fully extracted	Backfilling continued on exhausted part of the pit	Back filling in progress
5b	Area under backfilling of mined out area	3.8 Ha	3.8 Ha	Cumulative area
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Top soil generation is not proposed	Top soil is not generated	NA
5d	Total area fully reclaimed and rehabilitated	-	-	Reclamation of the pit by backfilling is in progress.
	F. PROG	RESSIVE MINE CLO	OSURE PLAN:-	
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	Yes	-
6b	Management of worked/ mined out benches i) Area available for rehabilitation (Ha)	Nil	Nil	-

		[1
	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			
	Compliance on recla-mation and			
	rehabili-tation by backfilling			
	i) Voids available for backfilling (L	4.0 Ha	i) Around 3.8 Ha is	Cumulative 3.8 Ha
	X B X D)		covered under	area is covered under
	ii) Void filled by waste/tailings		backfilling.	backfilling in the
6c	iii) Afforestation on the backfilled		ii)Voids filled by	exhausted part of the
	area		waste	pit and it is still in
	iv) Rehabilitation by making water		iii)About 2.0 Ha	progress.
	reservoir		·	progress.
			iv)Nil	
	v) Any other specific means	ЪТ / ¹	v) Nil	NT A
	Compliance of Rehabilitation of	Not proposed	NA	NA
	waste land within lease			
6d	i) Afforestation			
	ii) Area rehabilitated (ha)			
	iii) Method of rehabilitation			
6e	Compliance of Environmental	proposed	Done	NA
00	monitoring (core zone & buffer zone)			
	G N	IINERAL CONSER	VATION -	
7a	ROM mineral dispatch or grade wise	Fe 50% to 55%	Fe 50% to 55%	-
/ u	sorting within lease area			
7b	Method of Grade-wise mineral	Mechanical	Mechanical	-
70	sorting i.e. manual or mechanical			
7c	Different grade of mineral sorted out	Fe 50% to 55%	Fe 50% to 55%	-
70	at mines			
7d	Any beneficiation process at mines	Nil	Nil	-
		H. ENVIRONMEN	J. J.T.	
	1	r	1	
8a	Separate removal and utilization of	Not proposed	Not done	NA
04	topsoil (Rule 32)			
01	Concurrent use an atoms of the '1	Top soil not	NA	NA
8b	Concurrent use or storage of topsoil	available		
	Separate dumps for overburden,	Overburden waste	Overburden waste	Surface dumping of
8c	waste rock, rejects and fines (Rule	is proposed for	is being backfilled.	OB is not done.
	33)	back filling	is being suckined.	
		Overburden waste	Restoring of the	-
		is proposed for	land is by	-
	Use of overburden, waste rock,		-	
8d	rejects and fines dumps for restoring	backfilling within	backfilling of	
	the land to its original use	the pit	overburden waste	
			material is being	
			done,	
	Phased restoration, reclamation &	Pit reclamation by	Backfilling within	Dump rehabilitation
8e	rehabilitation of lands affected by	backfilling	the pit is being	by plantation being
00	mining operations (Pits, dumps etc)	proposed	followed.	carried out
	Baseline information on existence of	3000 Nos	Planted 3000 Nos	-
8f	plantation & additional plantation			
	done			
8g	Survival rate	70%	70%	-
	I	1		

8h	Water sprinkling on roads to control airborne dust	Proposed	Being done	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			satisfactory

1	II. COMPLIANCE OF RULE-45:-	
9a	Status of Submission of Monthly & Annual Returns	Submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual Return for year 2016-17
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	submitted on-line and in general, the
9d	Scrutiny of Annual return on afforestation	same is in order.
9e	Scrutiny of Annual return on mineral reject generation	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	
9i	Scrutiny of Annual return on fixed assets	
9k	Scrutiny of Annual return on mining machineries	

IV. Status of compliance of MCDR, 2017 including therewith the rectification of outstanding violation of the rules.

Date of last inspection	Violation pointed out	Compliance reported
19.04.2017	Rule 11(1) of MCDR 2017, vide letter No. MAH/SDG/Fe-46/GOA, dt 26/4/2017	Complied on 4.8.2017
19-09-2017	Nil	NA

(P. PRAKASH) DCOM