

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Bhubaneshwar regional office**

**Mine file No :** ORI/GEM/KHD/MCDR-5/BBS

**Mine code :** 86ORI07004

- (i) Name of the Inspecting : **DEY** ) **NARENDRA MOHAN DEY**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 14/05/2014
- (v) Prev.inspection date : 13/05/2013

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **LABANYASAR**
- (b) **Registration NO.** : **IBM / 5787 /2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address  
State : ORISSA  
District : KALAHANDI  
Village : LABANYASAR  
Taluka : BHAWANIPATNA  
Post office :  
Pin Code :  
FAX No. :  
E-mail : debarajm7@gmail.com  
Phone : 9778842838 / 9437188301
- (f) Police Station : JUNAGARH
- (g) First opening date : 08/04/2002
- (h) Weekly day of rest : SUN
2. Address for : SHRI DEBRAJ MEHER , AT / P.O: CHICHAIGUDA  
correspondance JUNAGARH, DSITT: KALAHANDI  
ODISHA, PIN: 766 014
3. (a) Lease Number : ORI0758  
(b) Lease area : 2.51  
(c) Period of lease : 20  
(d) Date of Expiry : 24/02/2022
4. Mineral worked : IOLITE Main

## 5. Name and Address of the

Lessee : DEBARAJ MEHER  
AT/PO CHICHEIGUDA DIST  
KALAHANDI, ORISSA  
KALAHANDI ORISSA  
Phone:  
FAX :

Owner : DEBARAJ MEHER  
AT/PO CHICHIEGUDA DIST  
KALAHANDI, ORISSA  
KALAHANDI ORISSA  
Phone:  
FAX :

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	12/05/2010
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	30/04/2012

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	I HAVE INSPECTED THE MINE ON 14.05.2014. PROPOSAL FOR 2013-14 WAS NIL. AS PER S O M APPROVED ON 30.04.2012 FOR THE PERIOD 2012-13 TO 2016-17.	2013-14 : NIL	
1b	Exploration over lease area for geological axis 1 or 2	2013-14: NO PROPOSAL	NIL ALREADY DONE 2 NOS TRIAL PITS PREVIOUSLY.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	AS PER S O M APPROVED ON 30.04.2012 FOR THE PERIOD 2012-13 TO 2016-17, THERE WAS PROPOSAL TO DIG 2 TRIAL PITS IN THE YEAR 2012-13.	ALREADY DONE 2 TRIAL PITS IN THE YEAR 2012-13.	
1e	Balance reserve as on 01/04/20		AS PER S O M APPROVED ON 30.04.2012 FOR THE PERIOD 2012-13 TO 2016-17 THE RESERVES ESTIMATED AS PER UNFC NORMS WAS AS FOLLOWS: 111: 1209.2 KG + 122: 669 KG = 1878.2 KG AND 333: 686 KG	
1f	General remarks of inspecting officers on geology, exploration etc			2 NOS TRIAL PITS HAVE BEEN DUG AND BASED ON THE MINING OPERATIONS CARRIED OUT & OCCURENCE OF MINERAL INCIDENCE IN THE WEATHERED VEINS, THE RESERVE HAS BEEN ESTIMATED.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	EASTERN SIDE OF THE LEASE	EASTERN SIDE OF THE LEASE	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	SEPARATE BENCHES IN ORE AND OB	ONE BENCH IN OB AND TWO BENCHES IN ORE.	
2c	Stripping ratio or ore to OB ratio	18.5 CUM	7.1 CUM	
2e	Quantity of overburden generation in m3	55.5 CUM		
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			ONE QUARRY HAS BEEN DEVELOPED HAVING DIMENSION 104 M X 7 M X 5 M

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	ONE	
3b	Quantity of ROM mineral production proposed	ROM : 2013-14: 13125 CUM OR 28875 TONNE ( BULK DENSITY 2.2) IOLITE : 375 KG ( AT 12 GM / TONNE)	2013-14: 25.60 KG IOLITE	NUMBER OF DAYS THE MINE WORKED : 96 DAYS IN THE YEAR 2013-14.
3c	Recovery of sailable/usable mineral from ROM production	2013-14: 347 KG IOLITE	2013-14: 25.6 KG IOLITE	

3h	Manual / Mechanised method adopted for segregating from ROM	THE RECOVERED MINERALS SOLD TO THE CONSUMER , WHO ARE HAVING LAPIDARY UNITS, WHERE AFTER CUTTING, SHAPING & POLISHING INTHEIR LAPIDARY UNITS.	2013-14: 25.6 KG IOLOITE	
3m	Total area covered under excavation/pits		0.3607 HA	DUE TO LESS PRODUCTION
3n	Ore to OB ratio for the pit/mine during the year.	NOT SPECIFIED	0.016	
3o	Total area put in use under different heads at the end of year		AREA COVERED UNDER OPENCAST WORKING : 0.360 HA, USED FOR WASTE DUMP: 0.246 HA, OCCUPIED BY ROAD: 0.078 HA	
3p	Production of ROM mineral during the last five year period as applicable	AS PER S O M APPROVED ON 30.04.2012 FOR THE PERIOD 2012-13 TO 2016-17 THE PROPOSAL WAS AS FOLLOWS: 2012-13 : 375 KG IOLITE, 2013-14: 347 KG IOLITE, 2014-15: 365 KG IOLITE, 2015-16: 273 KG IOLITE, 2016-17: 405 KG IOLITE	2012-13: 61 KG IOLITE, 2013-14: 25.6 KG, 2014- 15: 27 KG, 2015-16: 149 KG IOLITE	
3q	General remarks of inspecting officers on method of mining etc.			METHOD OF MINING IS MANUAL , LOADING IS ALSO DONE MANUALLY

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	SEPARATE DUMPING OF TOP SOIL, OB AND WASTE	OB DUMP : LENGTH: 56 M X 13 BREADTH X 3 M HEIGHT	
4b	Location of topsoil, OB and mineral reject dumps	OB DUMP NEAR SOUTHERN BOUNDARY	AS PROPOSED	
4c	Number of dumps within lease area and outside of lease area	ONE DUMP WITHIN LEASE AREA	AS PROPOSED ONE DUMP WITH IN LEASE AREA NO DUMP OUTSIDE LEASE AREA.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	BEYOND ULTIMATE PIT LIMIT	AS PROPOSED BEYOND ULTIMATE PIT LIMIT	
4h	Whether Retaining wall or garland drain all along dumps are there.	YES, PROPOSED	MADE AS PROPOSED	
4k	Specific comments of inspecting officer on waste dump management			THERE IS ONE WASTE DUMP IN SOUTHERN SIDE OF THE LEASE AREA, HEIGHT IS 3 TO 4 M. RETAINING WALL AND GARLAND DRAIN HAVE BEEN CONSTRUCTED AROUND THE DUMP.

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NO PROPOSAL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NO PROPOSAL OF BACK FILLING	ORE HAS NOT BEEN EXHAUSTED FROM THE QUARRY.,	NO PROPOSAL ON BACK FILLING AS THE ORE HAS NOT BEEN EXHAUSTED.

## Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	YES, SUBMITTED	ANNUAL REPORT ON PMCP HAS BEEN RECEIVED	
6d	No. of saplings planted during the year	50 NO OF PLANTS	50 NO OF PLANTS	
6e	Cumulative no .of plants	100 NO OF PLANTS	100 NO OF PLANTS	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			VERY SMALL SCALE MINING OPERATION IS BEING CARRIED OUT IN THE MINE OF TOTAL LEASE AREA 2.505 HA. 100 NOS OF SAPLINGS HAVE BEEN PLANTED.

## Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2012-13: 375 KG IOLITE, 2013-14: 347 KG IOLITE , AS PER SO M APPROVED ON 30.04.2012.	2012-13: 61 KG IOLITE , 2013-14: 25 KG IOLITE	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MANUAL	MANUAL AS PROPOSED	
7d	Any beneficiation process at mines .	NO BENEFICIATION PROPOSAL	IOLITE OCCURS IN POCKETS. A PART OF IOLITE RECOVERED DIRECTLY AND SORTED INTO VARIETIES IN NAKED EYE MANUALLY. REMAINING IOLITE STONES FROM THE EXCAVATED COLLUVIUMS PICKED UP / HAND SORTED MANUALLY AFTER WASHING.	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NO BENEFICIATION DONE AT THE MINE. IOLITE PRODUCED FROM THE MINE IS FULLY MARKETED LEAVING BEHIND NO SUB-GRADE STONE.
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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	YES	TOP SOIL GENERATED AND UTILISED IN THE PLANTATION WORK	
8b	Concurrent use or storage of topsoil	DURING 2012-13 TO 2016-17 TOP SOIL GENERATION PROPOSAL WAS 77 CUM	STORED SEPARATELY NEAR EASTERN BOUNDARY OF THE LEASE AND UTILISED IN PLANTATION WORK.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	SEPARATE DUMP FOR OB / WASTE	OB / WASTE GENERATED DUMPED OVER THE EXISTING DUMP. THE SAME WILL BE USED FOR BACKFILLING OF THE MINED OUT QUARRY AFTER EXHAUSTION OF MINERAL IN THE QUARRY BEYOND THE FIFTH YEAR i e AFTER 2016-17.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES, THERE IS PROPOSAL IN THE NEXT SCHEME PERIOD i.e AFTER 2016-17, NOT IN THIS SCHEME PERIOD	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	THE TOTAL LEASE AREA IS 2.505 HA, NON-FOREST, DEVOID OF TREES AND IS COVERED BY LOW YIELDING PADDY FIELDS.	ADDITIONAL PLANTATION DONE 100 NOS.	



8h	Water sprinkling on roads to control airborne dust	YES, PROPOSED	WATER IS BEING SPRINKLED ON ROADS TO CONTROL AIR BORNE DUST.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			100 NOS SAPLINGS HAVE BEEN PLANTED IN THE MINING LEASE. AESTHETIC BEAUTY IN AND AROUND THE MINES AREA HAS BEEN MAINTAINED.

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	YES, SUBMITTED	I HAVE INSPECTED THE MINE ON 14.05.2014. ANNUAL RETURN FOR THE YEAR 2013-14 HAS BEEN RECEIVED.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	SHRI GOPORANJAN MISHRA, MINES MANAGER CUM MINING ENGINEER HAS BEEN APPOINTED		VERY SMALL SCALE MINING OPERATION IS BEING CARRIED OUT. NUMBER OF DAYS WORKED DURING THE WHOLE YEAR 2013-14 WAS IN OPERATION ONLY 96 DAYS. MINE WAS NOT IN OPERATION 92 DAYS FOR RAIN, 91 DAYS FOR NON-AVAILABILTY OF LABOUR, LOCAL HOLIDAYS 61 DAYS AND WEEKLY HOLIDAYS 25 DAYS.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		AREA UNDER PITS: 0.465 HA, USED FOR WASTE DISPOSAL : 0.246 HA, OCCUPIED BY ROAD : 0.078 HA	
9d	Scrutiny of Annual return on afforestation		50 NO OF TREES PLANTED	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	OPENING STOCK : 75.400 KG IOLITE PRODUCTION : 25.600 KG IOLITE CLOSING STOCK : 101 KG NO DESPATCH DURING 2013-14	101 KG IOLITE WAS STOLEN IN THE MONTH OF APRIL, 2014 AS REPORTED DURING INSPECTION OF THE MINE ON 14.05.2014.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	COST PER KG : Rs.17053 /-	
9k	Scrutiny of Annual return on mining machineries	ONE TRACTOR AND ONE WATER PUMP	VERY SMALL SCALE MINING OPERATION

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed				Show couse position			
Rule NO.	Issued on	Compliance on		Rule NO.	Issued on	Compliance on	

**Date :**

**(NARENDRA MOHAN DEY)**

Indian Bureau of Mines