

**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 : **SHRI DEBRAJ MEHER, MINE OWNER & SHRI GOPORANJAN MISHR**  
Official with  
Designation
- (iv) Date of Inspection : 28/06/2015
- (v) Prev.inspection date : 14/05/2014

**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 28.06.2015. PROPOSAL FOR 2014-15 WAS NIL AS PER SOM APPROVED ON 30.04.2012 FOR THE PERIOD 2012-13 TO 2016-17.	2014-15 : NIL	
1b	Exploration over lease area for geological axis 1 or 2	2014-15 : NIL	NIL	CUMULATIVE ALREADY DONE 2 NOS TRIAL PITS PREVIOUSLY.
1d	Balance area to be explored to bring Geological axis in 1 or 2	AS PER SOM APPROVED ON 30.04.2012 FOR THE PERIOD 2012-13 TO 2016-17 PROPOSAL WAS TO DIG 2 TRIAL PITS TO KNOW THE MINERALISATION .	TRIAL PITS : 2 NOS	
1e	Balance reserve as on 01/04/20	AS PER SOM 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 AND 333: 686 KG	AS ON 30.04.2012 THE RESERVES AS PER UNFC NORMS: 111: 1209.2 KG + 122: 669 KG = 1878.2 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 RESERVES 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 OB AND ORE	OB BENCH: 1 AND NUMBER OF BENCHES IN ORE: 2	
2c	Stripping ratio or ore to OB ratio	NOT SPECIFIED	1 : 0.016	
2d	Quantity of topsoil generation in m3	16.5 CUM	6.2 CUM	DUE TO LESS PRODUCTION
2e	Quantity of overburden generation in m3	49.5 CUM	20.9 CUM	DUE TO LESS PRODUCTION
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	2012-13: 14296 CUM, 2013-14: 13125 CUM, 2014-15: 13824 CUM, 2015-16: 10353 CUM & 2016-17:15351 CUM 2012-13: 375 KG IOLITE, 2013-14: 247 KG IOLITE, 2014-15: 365 KG IOLITE, 2015-16: 273 KG IOLITE, 2016-17: 405 KG IOLITE ( AT 12 GM / TONNE)	2012-13 : 61 KG IOLITE, 2013-14 : 25.60 KG IOLITE 2014-15: 27 KG IOLITE 2015-16 : 149 KG IOLITE	
3d	Quantity of mineral reject generation	2012-13: TO 2016-17: NIL	2012-13: NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	THE RECOVERED MINERALSOLD TO THE CONSUMER, WHO ARE HAVING LAPIDARY UNITS, WHERE AFTER CUTTING, SHAPING, & POLOSHING IN THEIR LAPIDARY UNITS	2012-13 : 61 KG IOLITE, 2013-14: 25.60 KG IOLITE. 2014-15: 27 KG IOLITE , 2015-16: 149 KG IOLITE	
3j	Provision of drilling and blasting in mineral benches			
3m	Total area covered under excavation/pits	0.54 HA	0.49 HA	DUE TO LESS PRODUCTION
3n	Ore to OB ratio for the pit/mine during the year.	NOT SPECIFIED	1 : 0.016	

3o	Total area put in use under different heads at the end of year	AREA COVERED UNDER OPENCAST WORKING : 0.49 HA, USED FOR WASTE DISPOSAL: 0.246 HA, OCCUPIED BY ROAD ETC : 0.078 HA	
3p	Production of ROM mineral during the last five year period as applicable	AS PER SOM APPROVED ON 30.04.2012 FOR THE PERIOD 2012-13 TO 2016-17 PROPOSAL WAS AS FOLLOWS: 2012-13: 375 KG, 2013-14: 347 KG, 2014- 15: 365 KG, 2015-16: 273 KG & 2016-17: 405 KG	2012-13: 61 KG, 2013-14: 25.6 KG , 2014-15: 27 KG , 2015-16: 149 KG
3q	General remarks of inspecting officers on method of mining etc.		METHOD OF MINING IS MANUAL WITH THE HELP OF COMMON EQUIPMENTS LIKE HAND SHOVEL, CROWBAR, HAMMER, PICK AXE ETC. LOADING IS ALSO DONE MANUALLY THROUGH HEAD LOAD TRANSPORTATION BY THE LABOURERS WITH THE HELP OF BASKETS. AFTER HAND PICKING AND WASHING , IOLITE IS DISPATCHED TO THE NEARBY LAPIDARY UNITS FOR FURTHER VALUE ADDITION.

---

Solid Waste Management - Dumping:

---

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 BREADTH 13 M X HEIGHT 3 M NEAR SOUTHERN BOUNDARY WASTE ROCK DUMP : LENGTH 70 M X BREADTH 24.7 M X HEIGHT 1 M	
4b	Location of topsoil, OB and mineral reject dumps	NEAR SOUTHERN BOUNDARY	AS PROPOSED	
4c	Number of dumps within lease area and outside of lease area	ONE DUMP WITH IN LEASE AREA	AS PROPOSED ONE DUMP WITH IN LEASE AREA AND NO DUMP OUT SIDE 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	CARRIED OUT 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	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NO PROPOSAL	NIL	
5b	Area under backfilling of mined out area	NO PROPOSAL	NIL	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	NO PROPOSAL	NIL	NO PROPOSAL ON BACKFILLING
----	--	-------------	-----	----------------------------

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	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.	VERY SMALL SCALE MINING OPERATION . TOTAL MINING LEASE AREA IS 2.505 HA.
6d	No. of saplings planted during the year	50 NO OF PLANTS	56 NO OF PLANTS	
6e	Cumulative no .of plants	150 NO OF PLANTS	150 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. RETAINING WALL & GARLAND DRAIN HAVE BEEN CONSTRUCTED AROUND THE DUMP AND 150 NO OF SAPLINGS HAVE BEEN PLANTED.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2012-13 : 375 KG, 2013-14: 347 KG, 2014-15: 365 KG, 2015-16: 273 KG, 2016-17: 405 KG AS PER SOM APPROVED ON 30.04.2012.	2012-13 : 61 KG, 2013-14: 25 KG, 2014-15: 27 KG 2015-16: 149 KG	



7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MANUAL	MANUAL
7d	Any beneficiation process at mines .	NO BENEFICIATION IS DONE AT MINE. IOLITE OCCURS IN POCKETS. A PART OF IOLITE RECOVERED DIRECTLY AND SORTED IN TO VARIETIES IN NAKED EYE MANUALLY. REMAINING IOLITE STONES FROM THE EXCAVATED COLLUVIUMS PICKED UP / HAND SORTED MANUALLY AFTER WASHING.	SEMI-PRECIOUS STONE (IOLITE) IS TRANSPORTED TO THE LAPIDARY UNIT GEMS INDIA EXPORTERS, JEYPORE , RAJASTHAN BY ROAD / TRAIN.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	THE RECOVERED MINERAL SOLD TO THE CONSUMER , WHO HAVE LAPIDARY UNITS, WHERE AFTER CUTTING, SHAPING & POLISHING IN THE LAPIDARY UNIT, MARKETED PRIMARILY FOR ORNAMENTAL USE. BUYERS REQUIRE IMPORTANT QUALITIES WHICH MAKES THE STONE PRECIOUS ARE BEAUTY, RARITY AND DURABILITY. THE OTHER DESIRABLE FEATURES REQUIRED ARE BRIGHT COLOURS, CLARITY, TRANSPARENCY, HARDNESS, FREE FROM DEFECTS( FISSURES, INCLUSIONS & ZONING) AND AMENABLE TO CUTTING & POLISHING. HOWEVER, BEAUTY IS THE MOST IMPORTANT QUALITY.	IOLITE PRODUCED FROM THE MINE IS FULLY MARKETED LEAVING BEHIND NO SUB-GRADE STONES. NO BENEFICIATION IS DONE AT THE MINE.

---

**Environment :**

Sl.No.	Item	Proposals	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 AREA AND UTILISED IN PLANTATION WORK
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	SEPARATE DUMP FOR OB & WASTE ROCK	OB & WASTE GENERATED DUMPED OVER THE EXISTING DUMP. THE SAME WILL BE USED FOR BACKFILLING OF THE QUARRY AFTER EXHAUST 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	THERE IS PROPOSAL TO USE THE OB & WASTE ROCK FOR BACKFILLING THE QUARRY WHEN IT WILL BE EXHAUSTED BEYOND FIFTH YEAR i.e AFTER 2016-17.	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	THE TOTAL LEASE AREA IS ONLY 2.505 HA NON-FOREST, DEVOID OF TREES AND IS COVERED BY LOW YIELDING PADDY FIELDS.	ADDITIONAL PLANTATION DONE ; 150 NOS
8h	Water sprinkling on roads to control airborne dust	PROPOSED	WATER IS BEING SPRINKLED ON ROADS TO CONTROL AIRBORNE DUST.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	150 NOS SAPLINGS HAVE BEEN PLANTED IN SIDE MINING LEASE. RETAINING WALL & GARLAND DRAIN HAVE BEEN CONSTRUCTED. WATER IS SPRINKLED ON ROAD TO CONTROL AIRBORNE DUST.	AESTHETIC BEAUTY IN AND AROUND THE MINES AREA IS SATISFACTORY. GENERAL CHARACTER OF THE VEGETATION IN THE NEARBY FOREST IS DRY DECIDUOUS TYPE. NEHELA RESERVE FOREST IS TO THE EAST OF THE LEASE AND ALAMA R F IS TO THE NORTH OF THE LEASE IS FAIRLY DENSE MIXED JUNGLE MAINLY WITH BAMBOO.
----	--	---	--

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	SUBMITTED	I HAVE INSPECTED THE MINE ON 28.06.2015. ANNUAL REPORT FOR THE YEAR 2014-15 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.	
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 ETC : 0.078 HA	
9d	Scrutiny of Annual return on afforestation		56 NO OF TRRES PLANTED	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	OPENING STOCK : 101 KG PRODUCTION : 27 KG STOLEN DURING APRIL, 2014 : 101 KG CLOSING STOCK: 27 KG NO DESPATCH DURING 2014-15.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	PRODUCTION COST Rs.16492 / - PER KG.	VERY SMALL SCALE MINING OPERATION. NO OF DAYS WORKED DURING 2014-15 : 81 DAYS. MINE WAS NOT IN OPERATION 92 DAYS FOR RAINY SEASON, NON-AVAILABILITY OF LABOUR 106 DAYS, LOCAL HOLIDAYS 25 DAYS, WEEKLY HOLIDAYS : 50 DAYS.

---

**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