

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

**MCDR INSPECTION REPORT**

**Bhubaneshwar regional office**

**Mine file No :** ORI/GEM/KHD/MCDR-4/BBS

**Mine code :** 86ORI07001

- (i) Name of the Inspecting : **DEY** ) **NARENDRA MOHAN DEY**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : REPRESENTATIVE OF LESSEE SHRI PANDA  
Official with  
Designation
- (iv) Date of Inspection : 14/05/2014
- (v) Prev.inspection date : 12/05/2013

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BONDOGUDA IOLITE (2.023HA)**
- (b) **Registration NO.** : **IBM / 9691 /2012**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KALAHANDI
- Village : BANDO GUDA
- Taluka : JUNAGARH
- Post office : DEDAR
- Pin Code :
- FAX No. : 91-674-2550430
- E-mail : manikgems2000@gmail.com
- Phone : 91-674-2550644
- (f) Police Station : JUNAGARH
- (g) First opening date : 28/08/2001
- (h) Weekly day of rest : SUN
2. Address for : SHRI NARESH KUMAR AGRAWAL, DIRECTOR  
correspondance M/S MANIKESWARI GEMS (P) LTD, 1/65, IRC VILLAGE  
NAYAPALLI, BHUBANESWAR- 751 015
3. (a) Lease Number : ORI0756
- (b) Lease area : 2.02
- (c) Period of lease : 20
- (d) Date of Expiry : 13/08/2021
4. Mineral worked : IOLITE Main

5. Name and Address of the

Lessee : MANIKESWARI GEMS (P) LTD.  
MANIKESWARI GEMS (P) LTD.  
PLOT NO. N-3/444 IRC  
VILLAGE, BHUBANESWAR KHURDA  
ORISSA  
Phone:  
FAX :

Owner : MANIKESWARI GEMS (P) LTD.  
MANIKESWARI GEMS (P) LTD.  
PLOT NO. N-3/444 IRC  
VILLAGE, BHUBANESWAR KHURDA  
ORISSA  
Phone:  
FAX :

6. Date of approval of Mining :  
Plan/Scheme of Mining

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	THE SCHEME OF MINING APPROVED ON 19.12.2011 FOR THE PERIOD 2011-12 TO 2015-16. IT WAS PROPOSED TO DRILL 5 NOS OF BH AND 5 NOS TRIAL PITS IN THE SCHEME PERIOD.	I HAVE INSPECTED THE MINE ON 14.05.2014. AT THAT TIME MINE WAS TEMPORARILY CLOSED FROM 01.03.2006 DUE TO LOCAL DISTURBANCES. NO EXPLORATION WAS CARRIED OUT.	MINE WAS RE-OPENED ON 26.11.2014.
1b	Exploration over lease area for geological axis 1 or 2	AS PER SCHEME OF MINING APPROVED ON 19.12.2011 FOR THE PERIOD 2011-12 TO 2015-16, PROPOSAL WAS TO DRILL 5 BH AND 5 TRIAL PITS UPTO THE DEP[TH OF 50 M AND 3 M RESPECTIVELY.	NO EXPLORATION WAS CARRIED OUT DURING THE SCHEME PERIOD. BASED ON THE EXISTING QUARRY POSITION AND GEOLOGICAL MAPPING THE RESERVE HAS BEEN ESTIMATED. GEOLOGICAL INFORMATION WERE COLLECTED FROM THE EXISTING QUARRY EXCAVATIONS , OUTCROPS OF DIFFERENT LITHO UNITS , AVAILABLE DATA OF EXISTING QUARRY , THE GEOLOGICAL PLAN WAS PREPARED AND WORKABLE IOLITE RESERVE HAS BEEN ESTIMATED.	MINE WAS TEMPORARILY CLOSED FROM 01.03.2006 DUE TO LOCAL DISTURBANCES AND RE-OPENED ON 26.11.2004.
1d	Balance area to be explored to bring Geological axis in 1 or 2	WHOLE LEASE AREA 2.023 HA	NIL	MINE WAS TEMPORARILY CLOSED FROM 01.03.2006 DUE TO LOCAL DISTURBANES AND RE-OPENED ON 26.11.2014.

1e Balance reserve as on 01/04/20 RESERVE ESTIMATED AS PER UNFC NORMS WAS AS FOLLOWS:  
 111: 7340.625 KG, 122 : 5821.875 KG, 221: 1518.75 KG, 222: 2531.25 KG AND 333 : 8494.875 KG

1f General remarks of inspecting officers on geology, exploration etc IT WAS PROPOSED TO DRILL 5 BH AND 5 TRIAL PITS DURING 2011-12 TO 2015-16 AS PER S O M APPROVED ON 19.12.2011. I HAVE INSPECTED THE MINE ON 14.05.2014. NO EXPLORATION WAS CARRIED OUT DURING THE SCHEME PERIOD. MINE WAS TEMPORARILY CLOSED FROM 01.03.2006 DUE TO LACAL DISTURBANCES AND RE-OPENED ON 26.11.2014.

#### Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	LOCATION : 15 S - 100 S / 33 E - 155 E	NO WORK SINCE 01.03.2006	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		MINING ACTIVITIES WERE CARRIED OUT IN THE LEASE AREA SINCE 2001. DIMENSION OF EXISTING QUARRY WAS 111 M LENGTH, 85 M WIDTH, NO. OF BENCHES 5, TOP RL 258 M, BOTTOM RL 246 M.	ON THE DATE OF INSPECTION ON 14.05.2014, MINE WAS TEMPORARILY DISCONTINUED FROM 01.03.2006 FOR LOCAL DISTURBANCES. MINE WAS RE-OPENED ON 26.11.2014.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	NIL MINE WAS TEMPORARILY DISCONTINUED FROM 01.03.2006	

3b	Quantity of ROM mineral production proposed	AS PER S O M APPROVED ON 19.12.2011 FOR THE PERIOD 2011-12 TO 2015-16 THE PROPOSAL WAS AS FOLLOWS : 2011-12: 41737.5 TONNE OF CORDIERITE, 2012-13 : 41400 TONNE, 2013-14: 41625 TONNE, 2014-15: 42075 TONNE, 2015-16: 41962.5 TONNE OF CORDIERITE	NO ROM PRODUCTION AS NO MINING OPERATION SINCE 01.03.2006.	MINE WAS TEMPORARILY CLOSED FROM 01.03.2006 DUE TO LOCAL DISTURBANCES. RE-OPENED ON 26.11.2014. AFTER RE-OPENING NO PRODUCTION ONLY SOME DEVELOPMENT OF QUARRY WAS UNDERTAKEN.
3c	Recovery of sailable/usable mineral from ROM production	AS PER S O M APPROVED ON 19.12.2011 FOR THE PERIOD 2011-12 TO 2015-16 THE PROPOSAL WAS AS FOLLOWS: 2011-12: 1878.1875 KG IOLITE, 2012-13: 1863 KG, 2013-14: 1873.125 KG, 2014-15: 1893.375 KG, 2015-16: 1888.3125 KG IOLITE	NIL NO IOLITE PRODUCTION	MINE WAS TEMPORARILY DISCONTINUED FROM 01.03.2006 DUE TO LOCAL DISTURBANCES.
3h	Manual / Mechanised method adopted for segregating from ROM	MANUALLY	NIL NO MINING OPERATION FROM 01.03.2006 DUE TO LOCAL DISTURBANCES	
3j	Provision of drilling and blasting in mineral benches	NOT PROPOSED IN THE APPROVED S O M	NIL	

3k	Provision of mining machineries in mineral benches	NO MINING MACHINERY EXCEPT 0.9 CUM CAPACITY EXCAVATOR	NO MINING OPERATION SINCE 01.03.2006.	
3o	Total area put in use under different heads at the end of year		THE MINE WAS IN OPERATION SINCE 2001. TEMPORARILY DISCONTINUED FROM 01.03.2006 AND RE-OPENED ON 26.11.2014. AREA ALREADY PUT IN USE UNDER EXCAVATION : 0.823 HA, USED FOR DUMP: 0.007 HA, OCCUPIED BY ROAD : 0.001 HA, GREEN BELT: 0.096 HA, INFRASTRUCTURE : 0.012 HA TOTAL 0.939 HA.	
3q	General remarks of inspecting officers on method of mining etc.	METHOD OF MINING WAS BY FULLY MANUALLY MEANS BY USING CROWBAR, PICKAXE, SPADE, CHIESEL, HAMMER, TRUCK ETC EXCEPT 0.9 CUM CAPACITY EXCAVATOR.	NIL	MINING OPERATION WAS TEMPORARILY DISCONTINUED FROM 01.03.2006 DUE TO SOME LOCAL DISTURBANCES AND RE-OPENED ON 26.11.2014.

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#### 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 OB PROPOSED	NIL	
4b	Location of topsoil, OB and mineral reject dumps	EXISTING TWO SMALL OB / WASTE DUMPS AT THE CENTRAL PART OF THE LEASE, DUMP -1 AND DUMP -2.	NO MINING OPERATION FROM 01.03.2006.	

4h	Whether Retaining wall or garland drain all along dumps are there.	YES, PROPOSED	MINING OPERATION WAS DISCONTINUED SINCE 01.03.2006.	
4k	Specific comments of inspecting officer on waste dump management	THERE ARE TWO EXISTING DUMP DUMP-1 & DUMP-2 OVER AN AREA 76 SQ M, AND 34 SQ M , PROPOSAL FOR RETAINING WALL AND GARLAND DRAIN	NO	MINING OPERATION WAS TEMPORARILY DISCONTINUED FROM 01.03.2006 DUE TO LOCAL PROBLEMS AND RE-OPENED ON 26.11.2014.

#### 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 AS THE ORE HAS NOT BEEN EXHAUSTED	NIL	MINING OPERATION WAS DISCONTINUED FROM 01.03.2006 DUE TO SOME LOCAL PROBLEMS AND RE-OPENED ON 26.11.2014.

#### 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).	NOT SUBMITTED	MINING OPERATION HAS BEEN DISCONTINUED FROM 01.03.2006 DUE TO LOCAL PRELEMS	

6e	Cumulative no .of plants	550 NO OF SAPLINGS PROPOSED TO BE PLANTED OVER 3425 SQ M AREA	NIL NO MINING OPERATION FROM 01.03.2006.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP PROPOSALS WERE NOT COMPLIED AS THE MINING OPERATION WAS TEMPORARILY DISCONTINUED FROM 01.03.2006 DUE TO LOCAL DISTURBANCE.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NO PROPOSAL FOR ROM MINERAL DESPATCH GRADE-WISE SORTING MEANS IOLITE IN KG FROM ROM CORDIERITE SCHIST IN TONNE AS FOLLOWS: 2011-12: 1878.1875 KG IOLTE , 2012- 13: 1863 KG, 2013-14: 1873.125 KG, 2014-15: 1893.375 KG, 2015-16: 1888.3125 KG	NIL	MINING OPERATION WAS DISCONTINUED FROM 01.03.2006 DUE TO LOCAL PROBLEMS AND RE- OPENED ON 26.11.2014.
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	MANUAL	NO MINING OPERATION FROM 01.03.2006.	



7d	Any beneficiation process at mines .	NO BENEFICIATION PROPOSAL AT MINE .HOWEVER, THE LESSEE OWNS A CUTTING AND POLISHING UNIT FOR GEMSTONE OUT SIDE LEASE. THE IOLITE GENERATED FROM THE QUARRY SIZED AND SORTED MANUALLY. THE SORTED IOLITE TRANSPORTED TO CUTTING AND POLISHING UNIT FOR FINAL VALUE ADDITION.	NIL NO MINING OPERATION FROM 01.03.2006	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	THE SEMI PRECIOUS VARIETIES OF IOLITE PRODUCED FROM THE MINE BOTH FROM QUARRY FACE AND DURING THE SORTING OF IOLITE IN THE PROCESSING YARD STACKED SEPARATELY TILL SUCH TIME THAT MARKET DEVELOPS FOR THE MATERIALS FOR FUTURE.	NO BENEFICIATION SYSTEM EXCEPT CUTTING AND POLISHING	MINING OPERATION HAS BEEN DISCONTINUED FROM 01.03.2006 DUE TO LOCAL PROBLEMS AND RE-OPENED ON 26.11.2014.

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Environment:

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Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	DURING THE SCHEME PERIOD 1170 CUM TOP SOIL PROPOSED TO BE GENERATED , TO BE STACKED AT THE SOUTH-WESTERN SIDE OF THE QUARRY AND WILL BE USED FOR PLANTATION PURPOSE.	NIL NO MINING OPERATION FROM 01.03.2006	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	DURING SCHEME PERIOD i.e 2011-12 TO 2015-16 OB / WASTE PROPOSED TO BE GENERATED 83520 CUM	NOT GENERATED AS NO WORK WAS CARRIED OUT FROM 01.03.2006	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	TOTAL LEASE AREA 2.023 HA IS NON-FOREST AREA. VEGETATION WITH IN THE LEASE AREA IS SPARCE. ADDITIONAL PLANTATION PROPOSED 550 NOS OVER AN AREA 3425 SQM. DURING SCHEME PERIOD.	NOT PLANTED AS NO WORK WAS CARRIED OUT FROM 01.03.2006	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			THE MINE IS DISCONTINUED SINCE LONG 11 YEARS , THE AESTHETIC BEAUTY IN AND AROUND THE MINES AREA HAS BEEN MAINTAINED.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	I HAVE INSPECTED THE MINE ON 14.05.2014. THE ANNUAL RETURN FOR THE YEAR 2013-14 HAVE BEEN SUBMITTED	NO WORK FROM 01.03.2006
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	SCRUTINISED.	OUT OF TOTAL LEASE AREA 2.023 HA, AREA ALREADY USED UNDER PIT: 0.823 HA, USED FOR DUMP: 0.007 HA, OCCUPIED BY ROAD: 0.001 HA, GREEN BELT: 0.096 HA, INFRASTRUCTURE : 0.012 HA TOTAL: 0.939 HA.
9f	Scrutiny of Annual return on ROM stock and/or graded ore		ROM STOCK : NIL GEM VARIETY ROUGH AND UN CUT STONES OPENING STOCK & CLOSING STOCK: 1509.9 KG MINING OPERATION HAS BEEN DISCONTINUED FROM 01.03.2006 DUE TO LOCAL DISTURBANCES AND RE-OPENED ON 26.11.2014.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		MINING OPERATION HAS BEEN DISCONTINUED FROM 01.03.2006 DUE TO LOCAL DISTURBANCES. NO PRODUCTION DURING 2013-14. HOWEVER COST OF OPERATION AS MENTIONED IN THE ANNUAL RETURN 2013-14 IS AS FOLLOWS: DEPRECIATION : Rs.796628 /., ROYALTY : Rs 273563 /-, DEAD RENT : Rs 16645 /- TOTAL Rs.1086836 /-.
9h	Scrutiny of Annual return on fixed assets		Rs.10358646 /-

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

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

**Date :**

(NARENDRA MOHAN DEY)

Indian Bureau of Mines