

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/BXT/SNG/SNG/MCDR-1/BBS

Mine code : 07ORI13006

- (i) Name of the Inspecting : **S010**) **SHRI G.C. SETHI**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri C.B.Das, Qualified Person
Official with
Designation
- (iv) Date of Inspection : 11/10/2017
- (v) Prev.inspection date : 24/11/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KAMANDO**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : KAMANDO
- Taluka : BONAI
- Post office : KOIRA
- Pin Code : 770048
- FAX No. :
- E-mail :
- Phone : 505418
- (f) Police Station : KOIRA
- (g) First opening date : 24/08/1989
- (h) Weekly day of rest : SAT
2. Address for : VILL:KUSUMDIH
correspondance POST: KOIRA
DIST: SUNDERGARH, PIN: 770048
3. (a) Lease Number : ORI0231
- (b) Lease area : 43.07
- (c) Period of lease : 20
- (d) Date of Expiry : 25/02/2005
4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : U.C.MISHRA
 AT/PO:BIRAPURASATAMPUR POA:
 MD. ANWAR ANAND BHAWANLANE,
 ROURKEL PURI ORISSA
 Phone:0661-505418
 FAX :

Owner : U.C.MISHRA
 AT/PO.BIRAPURASATAMPUR PS:
 PIPILI PURI ORISSA
 Phone:
 FAX :

Manager

Name : M.C.MAHAKUD
 Qualification : DME(MINING)
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	05/05/2005
Plan/Scheme of Mining		FMCP under 23C(1)	02/01/2012
		Renewal under rule 24 MCR1960	23/02/2012
		Mining Scheme rule 12 MCDR1988	20/06/2014

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	As per the review of mining plan approved on 14.11.2017, an extent of 4.878ha of area has been explored upto G1 level & extent of 55.822ha remains un explored.	As per the review of mining plan approved on 14.11.2017, an extent of 4.878ha of area has been explored upto G1 level & extent of 55.822ha remains un explored.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s U.C.Mishra was the exploration agency for this mine.	M/s U.C.Mishra was the exploration agency for this mine & no exploration was done during the year 2016-17 as the mine was not under operation. The expenditure on account of exploration is Nil.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per the review of mining plan approved on 14.11.2017, an extent of 4.878ha of area has been explored upto G1 level & extent of 55.822ha remains un explored.	An extent of 4.878ha of area has been explored upto G1 level & extent of 55.822ha remains un explored.	Nil

1e	Balance reserve as on 01/04/20	In the review of mining plan, dated 14.11.2017, the reserves/reso urces for manganese furnished is as follows:- Reserves under (111): Nil, reserves under (121): 18475 tonnes, reserves under (122): 24725 tonnes & total remainig mineral resources of 9825 tonnes.	The available manganese reserves under (111): Nil, reserves under (121): 18475 tonnes, reserves under (122): 24725 tonnes & total remaing mineral resources 9825 tonnes.	Nil
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1f	General remarks of inspecting officers on geology, exploration etc	The hill ranges broadly delineate the folded limbs of the synclinorium. Superimositions of several phases of deformation in the area have resulted in a complex fold system. From the lithology point of view, soft lateritic type of manganese ore occurs in the lease hold area consisting of botryoidal manganese ore with lateritic matrix. In the year 2016-17, 20 nos. of boreholes are proposed to be drilled as envisaged in the approved scheme of mining.	The hill ranges broadly delineate the folded limbs of the synclinorium. Superimositions of several phases of deformation in the area have resulted in a complex fold system. From the lithology point of view, soft lateritic type of manganese ore occurs in the lease hold area consisting of botryoidal manganese ore with lateritic matrix. The mine is not under operation since the year 1993-94 & no exploration was done during the year 2016-17 due to MoEF clearance.	The mine is not under operation since the year 1993-94 & no exploration has been done since then.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	The development was proposed in the central portion of the lease area during the year 2016-17.	The mine is not under operation since 1993-94 due to want of MoEF clearance.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Provisions for separate benches in overburden and maganese ore zone was proposed as envisaged in the approved scheme of mining for the year 2016-17.	The mine is not under operation since 1993-94.	Nil
2c	Stripping ratio or ore to OB ratio	1t:4.8cum	The mine was not under operation during the year 2016-17 and the Ore:OB ratio could not be coumpted.	Nil
2d	Quantity of topsoil generation in m3	Only 3720 cum of top soil was proposed to be generated during the year 2016-17.	No topsoil was generated as the mine was not under operation during 2016-17.	Nil
2e	Quantity of overburden generation in m3	Only 39600 cum of overburden/was te matreial was proposed to be generated in 2016-17.	Nil	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No comments.	The mine is not under operation during 2016-17.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	Only one pit was proposed for production during 2016-17.	The mine was not in operation since the year 1993-94 due to lack of MoEF clearance and no production was reported during 2016-17.	Nil
3b	Quantity of ROM mineral production proposed	Only 8250 tonnes of manganese production was proposed during 2016-17.	The mine is not under operation since 1993-94 and no production was reported during the year 2016-17.	Nil
3c	Recovery of sailable/usable mineral from ROM production	The recovery of manganese is about 10% of the ore zone as indicated in the review of mining plan approved on 14.11.2017.	The mine is not under operation, thereby recovery percentage of manganese ore does not arise during 2016-17.	Nil
3d	Quantity of mineral reject generation	Nil	Nil	The mine was not under operation.
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	The mine was not under operation.
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	Nil	Not applicable.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	The ROM manganese so produced is subjected for upgradation by manual sizing, dressing, sorting /screening etc.	No segregation of ore is practised at present as the mine is not under operation since long time.	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Provisions for drilling & blasting was proposed in the approved scheme of mining.	The drilling & blasting is not in practice as the mine was not under operation.	Nil
3k	Provision of mining machineries in mineral benches	The method of mining was proposed by manual means.	No mining machineries were deployed in the benches as the mine was not under operation.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Separate benches in overburden & mineral in ore zone are proposed in the approved scheme of mining for the year 2016-17.	The mine was not under operation.	Nil
3m	Total area covered under excavation/pits	No such specific proposal.	An extent of 0.421ha has been excavated by opencast workings.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1t:4.8cum	As the mine was not under operation since long time & no production & waste handling was reported during the year 2016-17. Therefore, the Ore:OB ratio could not computed.	Nil

3o	Total area put in use under different heads at the end of year	No specific proposal.	The existing land use in different heads at the end of the year 2016-17 is as given below:- (i) Mining: 0.421ha (ii) Overburden Dump: 0.315ha & (iii)) Road: 4.394ha.	The existing land use in different heads at the end of the year 2016-17 is as given below:- (i) Mining: 0.421ha (ii) Overburden Dump: 0.315ha & (iii)) Road: 4.394ha.
3p	Production of ROM mineral during the last five year period as applicable	The proposed production for the period from 2012-13 to 2016-17 is as given below:- 2012-13: 8442 tonnes, 2013-14: Nil, 2014-15: Nil, 2015-16: 4020tonnes & 2016-17: 8250tonnes	The actual production reported for the period from 2012-13 to 2016-17 is as given below:- 2012-13: Nil, 2013-14: Nil, 2014-15: Nils, 2015-16: Nil & 2016-17:Nil	The mine is not under operation since 1993-94 to till date.
3q	General remarks of inspecting officers on method of mining etc.	No comment to offer.	The mine was not under operation since the year 1993-94 to till date.	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Provisions for separate dumping topsoil & OB/waste was envisaged. There is no proposal for generation of mineral rejects in the approved scheme of mining.	The mine was not under operation during 2016-17 and no dumping/stacking is done.	Nil

4b	Location of topsoil, OB and mineral reject dumps	Within the lease area.	Nil	Nil
4c	Number of dumps within lease area and outside of lease area	Lone done was proposed during the year 2016-17.	Lone existing dumps was available in the mine.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The existing dumps are available in central part of the lease area, which is out side the ultimate pit limit.	The existing dump is available in central part of the lease area, which are located out side the ultimate pit limit.	Nil
4e	Number of active and alive dumps.	Nil	Nil	Nil
4f	Number of dead dumps.	One	Only one.	Nil
4g	Number of dumps established.	One	One	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	The mine was not in operation.
4i	Length of Retaining wall or garland drain all along dumps	Nil	Not applicable.	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	No comments.	The mine was not under operation since 1993-94 & till date.	Nil

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Nil	Nil	Nil
5b	Area under backfilling of mined out area	Nil	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No comments.	The mine was not under operation since the year 1993-94.	Nil

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).	Not submitted.	The mine was not under operation since the year 1993-94.	Nil
6b	Area available for rehabilitation (ha) .	Nil	Nil	The mine was not under operation since the year 1993-94.
6c	afforestation done (ha).	Nil	Nil	Nil
6d	No. of saplings planted during the year	Nil	Nil	Nil
6e	Cumulative no .of plants	No such proposal.	Nil	Nil

6f	Any other method of rehabilitation	Nil	Not applicable.	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Nil	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Nil	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Nil	Nil	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No comments.	The mine is not in operating condition since the year 1993-94.	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Nil	The mine was not under operation since the year 1993-94 & no dispatch during the year 2016-17.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual means.	The mine is not under operation since the year 201993-94 & till date.	Nil
7c	Different grade of mineral sorted out at mines.	Nil	The mine is not under operation sicne the year 1993-94.	Nil
7d	Any beneficiation process at mines	Nil	Nil	Nil

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No comment.	The mine is not under operation since 1993-94.	Nil
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposal for storage was envisaged for the year 2016-17.	No topsoil was generated during the year 2016-17 as the mine was not in operation.	Nil
8b	Concurrent use or storage of topsoil	Nil	Not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dumping of overburden/waste was envisaged & no proposal for separate dumping/stacking for rejects in the scheme of mining.	No overburden, waste, rejects & fines was generated during the year 2016-17, since the mine is not under operation since the year 1993-94.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Nil

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2400 nos. of saplings were proposed during the year 2016-17.	Nil	Nil
8g	Survival rate	Not specified.	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	Nil	Nil	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No comments.	The mine is not under operation since the year 1993-94, thereby no work has been done to improve the aesthetic beauty in and around the lease area.	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The party has submitted all the monthly & annual returns.	As the mine is not under operation since the year 1993-94, the party has submitted all nil returns.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The employment status of mining engineer, geologist & mine manager have not been furnished in the annual return.	No mining engineer, geologist & mine manager has been employed in the mine as the mine is not in operation since 1993-94.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The land use has not been furnished in the annual return. The mine is not under operation since the year 1993-94.	Nil	The mine was not under operation since the year 1993-94.

9d	Scrutiny of Annual return on afforestation	Nil	Nil	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Not furnished.	Not furnished.	Nil
9h	Scrutiny of Annual return on fixed assets	Not furnished.	Not furnished.	The mine is not under operation since the year 1993-94.
9k	Scrutiny of Annual return on mining machineries	No mining machinery was deployed in the mine during 2016-17.	The mine is not under operation since the year 1993-94.	Nil

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 :**(SHRI G.C. SETHI)**

Indian Bureau of Mines