

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

MCDR inspection REPORT

Bhubaneshwar regional office

Mine file No : ORI/MN/SNG/MCDR-16/BBS

Mine code : 40ORI13005

- (i) Name of the Inspecting : **RKR5**) **RAJANI KANTA RAUTARAY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri H H Panda, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 07-OCT-21
- (v) Prev.inspection date : 03-OCT-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GANUA**
- (b) **Registration NO.** : **IBM/135/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : GANUA
- Taluka : BONAI
- Post office : MALDA
- Pin Code :
- FAX No. : 06767-275362
- E-mail : snmbbl@gmail.com
- Phone : 06767-275362
- (f) Police Station : Koira
- (g) First opening date : 06-JUN-80
- (h) Weekly day of rest : MON
2. Address for : VILL: GONUA, PO: MALDA
correspondance : DIST: SUNDERGARH, ORISSA
POLICE STATION . KOIRA
3. (a) Lease Number : ORI0694
- (b) Lease area : 13.79
- (c) Period of lease :
- (d) Date of Expiry : 05-JUN-20
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : PRABODH MOHANTY (L/HOF S.N.MOHANTY.)
 AT: STATION ROAD, P.O.
 BARBIL DIST. KEONJHAR,
 ORISSA KEONJHAR ORISSA
 Phone:
 FAX :

Owner : P. K. MOHANTY, L.H. OF LATE S.N. MOHANTY
 AT: STATION ROAD, P.O.
 BARBIL DIST. KEONJHAR,
 ORISSA KEONJHAR ORISSA
 Phone: 06767-275362
 FAX : 06767-275362

Agent : T.C.Sei
 Barbil, Keonjhar, Odisha
 SUNDARGARH ORISSA
 Phone: 06767-275362
 FAX : 06767-212164

Mining Engineer
 Name : B. Samal, Full Time
 Qualification : BE Mining
 Appointment/ : 02-DEC-12
 Termination date

Geologist
 Name : S MOHANTY, Full Time
 Qualification : MSC (GEOLOGY)
 Appointment/ : 25-OCT-16
 Termination date

Manager
 Name : H. H. Panda
 Qualification : AMIE
 Appointment/ : 22-DEC-09
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	11-NOV-04
		Modif.of approved Mining Plan	17-MAR-08
		Modif.approved Mining Scheme	02-AUG-13
		Mining Scheme rule 12 MCDR1988	22-MAY-14
		FMCP under 23C(1)	20-NOV-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	As per UNFC norms at Gonua mines 6.920 Ha. Area is explored in G1 level of exploration and 4.830 Ha. Area is explored in G2 level of exploration.	As per UNFC norms at Gonua mines 6.920 Ha. Area is explored in G1 level of exploration and 4.830 Ha. Area is explored in G2 level of exploration.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per UNFC norms at Gonua mines 6.920 Ha. Area is explored in G1 level of exploration and 4.830 Ha. Area is explored in G2 level of exploration.	As per UNFC norms at Gonua mines 6.920 Ha. Area is explored in G1 level of exploration and 4.830 Ha. Area is explored in G2 level of exploration.	G1 and G2 level of exploration has been undertaken within surface right acquired area . There exist 2.046 ha tribal private land in M.L area where bore hole could not be put due to non-availability of surface right. out of 3.42 ha an area of 2.046 ha does not come within influence of borehole put within surface right acquired area and hence kept under unexplored area.
1e	Balance reserve as on 01/04/20	As per approved FMCP, the reserve/resource status as on 31.03.2018	Remaining reserve/resource after exploration as on 31.08.2018 is 0.065MT manganese ore.	

1f	General remarks of inspecting officers on geology, exploration etc	Final Minal Closure Plan has been approved ON 20.11.2018 as mining operation became uneconomical.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No proposal	Nil	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal	Nil	
2c	Stripping ratio or ore to OB ratio	No proposal	Nil	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	No proposal	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			There is no developement proposal in the year 2020-21 in the approved FMCP.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	No proposal	Nil	
3b	Quantity of ROM mineral production proposed	No proposal	Nil	
3c	Recovery of sailable/usable mineral from ROM production	No proposal	Nil	

3d	Quantity of mineral reject generation	No proposal	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Nil
3g	Grade of sub grade mineral generation	No proposal	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	OTFM	Manual
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil
3j	Provision of drilling and blasting in mineral benches	No proposal	Nil
3k	Provision of mining machineries in mineral benches	Excavator, Dumper	Excavator, Dumper combination
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the bench is 3 meter & width of the bench is 5 meter.	As per proposal
3m	Total area covered under excavation/pits	4.320 ha.	4.320ha
3n	Ore to OB ratio for the pit/mine during the year.	No proposal	Nil

3o	Total area put in use under different heads at the end of year	Area under excavation 4.320 Ha. Overburden dump 1.630 Ha. Mineral Storage 0.360 Ha. Sub-grade ore Infrastructure (office, rest shed, solar system etc.) 0.620 Ha. Infrastructure Roads (office, rest shed, solar system etc.) 0.177 Ha. Greenbelt 0.464 Ha. Others (Magazine) 0.029 Ha.	Area under excavation 4.320 Ha. Overburden dump 1.630 Ha. Mineral Storage Sub-grade ore 0.360 Ha. Infrastructure (office, rest shed, solar system etc.) 0.620 Ha. Roads 0.177 Ha. Greenbelt 0.464 Ha. Others (Magazine) 0.029 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15 4072.8 Tonne 2015-16 4108.8 Tonne 2016-17 4141.200 Tonne 2017-18 3288.000 Tonne 2018-19 3603.600 Tonne 2019-20 0.00 Tonne	2014-15 882.336 Tonne 2015-16 1120.67 Tonne 2016-17 1090.000 Tonne 2017-18 1050.000 Tonne 2018-19 345.000 Tonne 2019-20 235.108 Tonne	235.108 Tonne Mn Ore was proposed to raised from the stack in 2019-20 in the approved FMCP.
3q	General remarks of inspecting officers on method of mining etc.			There is no proposal for ROM production in the approved FMCP.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil- No proposal Overburden- No proposal Mineral Reject -Stack in earmarked area if any generated	No Top soil- Nil Overburden- Nil Mineral Reject - Nil	

4b	Location of topsoil, OB and mineral reject dumps	No proposal	Nil	
4c	Number of dumps within lease area and outside of lease area	Within Lease- two Outside Lease- Nil	Within Lease- two Outside Lease- Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	120E to 295E & 15N TO 182N	120E to 295E & 15N TO 182N	
4e	Number of active and alive dumps.	No proposal	Not Applicable	
4f	Number of dead dumps.	Two dump	Two dump	
4g	Number of dumps established.	Two dumps	Two dumps	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			There ids no specific proposal in the approved FMCP in 2020-21.

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	Mineral Exhausted area	
5b	Area under backfilling of mined out area	No proposal	Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	1.138 ha	1.138 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Work is carried out as per proposals in the approved FMCP.

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).	No proposal	Nil	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha) .	0.430 Ha.	0.430 Ha.	
6d	No. of saplings planted during the year	1842	2000	
6e	Cumulative no .of plants	4075	46900	
6f	Any other method of rehabilitation	No Proposal	Nil	
6g	Cost incurred on watch and care during the year	Rs. 147360/-	Rs. 180000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	Nil	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Quarterly monitoring of AAQ, Water Quality and Noise level are being carried out through a recognized Environmental consultant, R.B. Briggs & Co. Private Ltd., Barbil.	Quarterly monitoring of AAQ, Water Quality and Noise level are being carried out through a recognized Environmental consultant, R.B. Briggs & Co. Private Ltd., Barbil.

6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of AAQ, Water Quality and Noise level are being carried out through a recognized Environmental consultant, R.B. Briggs & Co. Private Ltd., Barbil.	Quarterly monitoring of AAQ, Water Quality and Noise level are being carried out through a recognized Environmental consultant, R.B. Briggs & Co. Private Ltd., Barbil.
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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	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There is no proposal in the approved FMCP.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	

8b	Concurrent use or storage of topsoil	No proposal	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No proposal	Additional 100 no's of sapling have been planted
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	Water tanker provision was there in 2020-21	Being done by 1 No. of water Tanker of 8 KL

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns			Annual Return for the year 2020-21 has been submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager			Final Mine Closure Plan has been approved on 20.11.2018 and since then the mine is not in operation.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under excavation : 4.320 Ha. Overburden Dump : 1.630 Ha.	Provided	
9d	Scrutiny of Annual return on afforestation	Provided	2000 Nos of trees has been planted during the year	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	Final Mine Closure Plan has been approved on 20.11.2018 and since then the mine is not in operation.
9h	Scrutiny of Annual return on fixed assets	Nil	Nil	Final Mine Closure Plan has been approved on 20.11.2018 and since then the mine is not in operation.
9k	Scrutiny of Annual return on mining machineries	Nil	Nil	Final Mine Closure Plan has been approved on 20.11.2018 and since then the mine is not in operation.

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 :

(RAJANI KANTA RAUTARAY)

Indian Bureau of Mines