

INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/MN/MCDR-9/BBS

Mine code : 40ORI08023

- (i) Name of the Inspecting : RAM) RAMKISHAN R
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri A.S.Mohapatra, Agent
Official with
Designation
- (iv) Date of Inspection : 19/08/2019
- (v) Prev.inspection date : 14/04/2018

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KATASAI
- (b) Registration NO. : IBM/4585/2011
- (c) Category : A Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : ORISSA
District : KEONJHAR
Village : KATASAI
Taluka : BARBIL
Post office : CHORMALDA
Pin Code :
FAX No. : 91 6767 276161
E-mail : rungta_bbl@yahoo.co.in
Phone : 06767 275221 / 275481
- (f) Police Station : Barbil
- (g) First opening date : 13/02/1957
- (h) Weekly day of rest : TUE
2. Address for : KATASAI MANGANESE MINE, M/S RUNGTA SONS (P) LTD
correspondance : P.O.CHORMALDA, DIST :KEONJHAR
ORISSA-758035
3. (a) Lease Number : ORI0185
- (b) Lease area : 196.86
- (c) Period of lease : 50 yrs/ 85 per section 8A of MMDR Act 1957 (amended
up to 2015)
- (d) Date of Expiry : 31/03/2020
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/s Rungta Sons (P) Ltd
 Rungta House P.O.
 Chaisabasa SINGHBHUM
 (WEST) JHARKHAND
 Phone:(06582) 56861/56761
 FAX :91 6582 56442

Owner : RUNGTA SONS (P) LTD.
 RUNGTA HOUSE CHAIBASA
 SINGHBHUM (WEST) JHARKHAND
 Phone: 06582-56861,567
 FAX : 91-6582-56442

Agent : D.R.OJHA
 C/O BICO LTD AT O.P.BARBIL
 KEONJHAR ORISSA
 Phone: 06596-62321,62221
 FAX :

Geologist
 Name : SHRI TANMAYA PANDA, Full Time
 Qualification : MSC GEOLOGY
 Appointment/ : 01/11/2015
 Termination date

Manager
 Name : SHRI SUNIL KUMAR
 Qualification : DIPLOMA IN MINING ENGG
 Appointment/ : 22/03/2017
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	19/09/2000
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	06/07/2010
		Mining Scheme rule 12 MCDR1988	07/04/2015
		MP modif under 17(3) MCR 2016	06/09/2016
		MP modif under 17(3) MCR 2016	08/02/2018
		MP modif under 17(3) MCR 2016	18/07/2018
		FMCP under 23C(1)	27/09/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such specific proposal. However 78 nos of boreholes were proposed during the year 2018-19.	NA	Nil
1b	Exploration over lease area for geological axis 1 or 2	78 nos of boreholes were proposed during the year 2018-19 for exploring the lease area under G1/G2 level.	26 nos of boreholes were drilled during the year.	violation observed for not acheiving the target of exploration letter dated 06.09.2019.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No spcific proposal.	M/s SPS geomining Solutions (p) Ltd carried out the exploration.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per the approved mining plan 65.36 ha needs to be explored.	65.36 ha	Nil
1e	Balance reserve as on 01/04/20	As per the approved mining plan 18.07.2018 the managanese reserves are under category 111: 0.344 million tonnes, 122: 8855 t and resources under category 211: 10800 t, 333: 415030 t.	due to addition/depletion of reserves and resources during the time period the managanese reserves as on 01.04.2019 are under category 111: 0.342 million tonnes, 122: 8855 t and resources under category 211: 10800 t, 333: 290521 t.	Nil

1f	General remarks of inspecting officers on geology, exploration etc	Violation issued for not acheiving the exploration target of 2018-19.	Nil
----	--	---	-----

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	5 nos of pits called GS pit, Nala pit, Quarry 6&7, Rola & Central pit, Bottom pit are proposed for development for the year 2018-19	3 nos of pits called Quarry 6&7, Rola & Central pit, Bottom pit are developed during the year.	the other pits couldnot be developed due to want of tree felling permission.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	seperate benches in OB and mineral are proposed, no top soil bench is proposed.	seperate benches in mineral and OB are maintained.	Nil
2c	Stripping ratio or ore to OB ratio	1: 10.11 t/cu.m.	1: 24.75 t/cu.m.	the stripping ratio is high due to more generation of waste due to poor recovery of mineral.
2d	Quantity of topsoil generation in m3	No generation of top soil is proposed.	NA	Nil
2e	Quantity of overburden generation in m3	195104 cu.m.	46738 cu.m.	due to less development.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		only 3 pits are developed against the proposal of 5 nos of pits.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	5 nos of pits called GS pit, Nala pit, Quarry 6&7, Rola & Central pit, Bottom pit, Bottom pit are proposed for production for the year 2018-19	3 nos of pits called Quarry 6&7, Rola & Central pit, Bottom pit are worked out for production during the year.	the other pits couldnot be developed due to want of tree felling permission.
3b	Quantity of ROM mineral production proposed	19291 tonnes	1888.129 t	the production was less due to poor market demand and lesse development.
3c	Recovery of sailable/usable mineral from ROM production	saleable ore production is 15433 t and mineral reject is 3858 tonnes.	saleable ore production is 1874.129 t and mineral reject is 14 t	due to less development.
3d	Quantity of mineral reject generation	3858 t	14 t	due to less production due to less market demand.
3e	Grade of mineral rejects generation and threshold value declared.	+10%-25% Mn	+10%-25% Mn	Nil
3f	Quantity of sub grade mineral generation.	NA	NA	addressed under mineral reject
3g	Grade of sub grade mineral generation	NA	NA	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not applicable	NA	Nil

3j	Provision of drilling and blasting in mineral benches	shot hole drilling and blasting is proposed for mineral benches.	shot hole drilling and blasting is carried out for mineral benches.	Nil
3k	Provision of mining machineries in mineral benches	excavator and dumper combination is proposed for excavation and hauling of material.	excavator and dumper combination is deployed for excavation and hauling of material.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	the height and width proposed are 3 m and 6 m.	maintained.	Nil
3m	Total area covered under excavation/pits	50.606 ha at the end of plan period i.e. 2019-20.	44.486 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1: 10.11 t/cu.m.	1: 24.75 t/cu.m.	the stripping ratio is high due to more generation of waste due to poor recovery of mineral.
3o	Total area put in use under different heads at the end of year	mining: 50.606 ha, waste dumping: 8.679 ha, mineral storage: 7.09 ha, infra&Roads: 5.696 ha till the end of mining plan period i.e. 2019-20.	mining: 44.486 ha, waste dumping: 7.0391 ha, mineral storage: 7.09 ha, infra&Roads: 3.22 ha	Nil

3p	Production of ROM mineral during the last five year period as applicable	2014-15: 19291 t 2015-16: 13469 t 2016-17: 19291 t 2017-18: 19291 t 2018-19: 19291 t	2014-15: 317.626 t 2015-16: 112.136 t 2016-17: 241.596 t 2017-18: 895.293 t 2018-19: 1888.129 t	deviation is due to less market demand.
3q	General remarks of inspecting officers on method of mining etc.		3 nos of pits are worked out for production due to less market demand.	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	no genreation of top soil is proposed and seperate dumping of OB and mineral reject are proposed.	seperate dumping of OB and mineral reject are carried out.	Nil
4b	Location of topsoil, OB and mineral reject dumps	No top soil generation is envisaged. two nos of dumps called D1 and D2 are proppoed. mineral rejct stacking is proposed.	two nos of dumps called D1 and D2 are proppoed and mineral reject is stacked in the designated area.	Nil
4c	Number of dumps within lease area and outside of lease area	2 nos of dumps	2 nos of dumps	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	beyond UPL	beyond UPL	Nil
4e	Number of active and alive dumps.	2 nos of dumps	2 nos of dumps	Nil

4f	Number of dead dumps.	Nil	NA	Nil
4g	Number of dumps established.	Nil	NA	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	retaining wall and garland drain proposed.	maintained.	Nil
4i	Length of Retaining wall or garland drain all along dumps	330 m of retaining wall and 250 m garland drain	Nil	violation observed letter dated 06.09.2019
4j	Number of settling ponds	Nil	NA	2 nos of settling ponds are already constructed and maintained.
4k	Specific comments of inspecting officer on waste dump management		retaining wall and garland drain needs to be constructed around waste dump so violation issued.	Nil

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	Mineral not exhausted.
5b	Area under backfilling of mined out area	Nil	NA	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	NA	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal.	NA	Nil

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Area not matured for reclamation and rehabilitation.	Nil
----	--	--	-----

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).	to be submitted before 1 st July	submitted.	Nil
6b	Area available for rehabilitation (ha) .	Nil	NA	Nil
6c	afforestation done (ha).	1 ha during the year 2018-19.	1 ha	Nil
6d	No. of saplings planted during the year	2500 nos	4000 nos	Nil
6e	Cumulative no .of plants	48091 nos	83652 nos	Nil
6f	Any other method of rehabilitation	Nil	NA	Nil
6g	Cost incurred on watch and care during the year	0.3 lakhs	0.3 lakhs	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	NA	Area not matured for reclamtion and rehabilitation

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	NA	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	NA	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not applicable	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1 ha	1 ha	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	Nil	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	quarterly monitoring of environmental parameters such as air, water quality and noise survey	quarterly monitoring of environmental parameters are carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		PMCP measures are carried out except construction of retaining wall and garland drain	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade wise sorting os mineral area proposed.	grade wise sorintg of mineral is being carried out.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	Nil
7c	Different grade of mineral sorted out at mines.	(a) Below 25% Mn (b) 25% to below 35% Mn (c) 35% to below 46% Mn	(a) Below 25% Mn (b) 25% to below 35% Mn (c) 35% to below 46% Mn	Nil
7d	Any beneficiation process at mines	sorting by manual method	sorting by manual method.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		different grades of mineral sorting is carried out.	Nil

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No generation of top soil is proposed.	NA	Nil
8b	Concurrent use or storage of topsoil	Not applicable	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	seperate dumps for OB, mineral rejects and fines area proposed.	maintained.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not applicable	Nil	Area not matured for reclamation and rehabilitation
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not applicable	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2500 nos proposed for afforestation during the year 2018-19.	4000 nos plantation carried out in waste land and dump management.	Nil
8g	Survival rate	65%	65%	Nil
8h	Water sprinkling on roads to control airborne dust	water sprinkling on haul raod is proposed for dust supression.	carried out.	Nil

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	environment protective measures are carried out as per the proposals.	Nil
----	--	---	-----

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	as per rule 45 of MCDR, 2017	annual return and monthly returns are submitted.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	diploma mining engineer: 1, Geologist: 1, Surveyor: 1	found to be in order.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Covered under current (O/C) Workings 44.486 ha (ii) Used for waste disposal 7.039 ha (iii) Occupied by plant, buildings, residential, welfare buildings & roads 3.220 ha (iv) Other Purpose (Mineral Storage, Green belt 8.530 ha	found to be in order.	Nil
9d	Scrutiny of Annual return on afforestation	4000 nos	found to be in order.	Nil

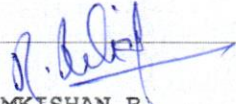
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	14 t	found to be in order.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	closing stock of ROM : Nil (a) Below 25% Mn 14.000 t (b) 25% to below 35% Mn 3265.920 t (c) 35% to below 46% Mn 1101.025 t	found to be in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	production cost Rs 11017 per toone	appears to be on higher side.	Nil
9h	Scrutiny of Annual return on fixed assets	Rs. 1067300	Rs 1067300	Nil
9k	Scrutiny of Annual return on mining machineries	BACK HOE 0.900 CUM 1 No. BLAST HOST DRILL 110.000 MM 1 No. JEEP/TRACTOR 45.000 HP 1 No. DUMPER 20.000 TONNE 3 nos.	found to be in order.	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
MCDR17 Rule 11(1)	06/09/2019				
MCDR17 Rule 55(1) (1)	06/09/2019				

Date :

25/10/19.


(RAMKISHAN R)

Indian Bureau of Mines