

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Bhubaneswar regional office

Mine file No : ORI/IRON/KJR/MCDR-18/BBS

Mine code : 30ORI08018

- (i) Name of the Inspecting : RAM) RAMKISHAN R
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Supriti Maity
Official with
Designation
- (iv) Date of Inspection : 24/08/2019
- (v) Prev.inspection date : 06/02/2019

PART-I : GENERAL INFORMATION

1. (a) Mine Name : GUALI
- (b) Registration NO. : IBM/5306/2011
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : ORISSA
District : KEONJHAR
Village : GUALI
Taluka : BARBIL
Post office : GUALI
Pin Code :
FAX No. : 06767-272503
E-mail : tpsao@sify.com
Phone : 06767-272363, Mobile- 94371
- (f) Police Station : GUALI
- (g) First opening date : 07/06/1953
- (h) Weekly day of rest : TUE
2. Address for : VII&PO.GUALI
correspondance : POLICE STATION . BARBIL
DIST.KEONJHAR,ORISSA, PIN.758035
3. (a) Lease Number : ORI0092
- (b) Lease area : 365.03
- (c) Period of lease : 50 yrs) As per section 8A of MMDR Act 1957 (as amended up
to March 2015)
- (d) Date of Expiry : 31/03/2020
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : RAMESH PRASAD SAO
NEAR GANDHI PARK
AT/PO.CHAIBASA
DIST.SINGHBHUM(W) SINGHBHUM
(WEST) JHARKHAND
Phone:56268
FAX :

Owner : RAMESH PRASAD SAO
NEAR GANDHI PARK
AT/PO.CHAIBASA SINGHBHUM
(WEST) JHARKHAND
Phone: 56268
FAX :

Agent : ABHISHEK SAO
NEAR GANDHI PARK AT/PO:
CHAIBASA SINGHBHUM WEST
DIST, JHARKHAND SINGHBHUM
(WEST) JHARKHAND
Phone: 06767-272363
FAX : 06767-272503

Mining Engineer

Name : Bikash Ranjan Patra, Full Time
Qualification : B.E. Mining
Appointment/ : 09/11/2018
Termination date

Geologist

Name : R.N. Kar, Full Time
Qualification : M.Sc. Geology
Appointment/ :
Termination date

Manager

Name : Supriti Maity
Qualification : B.E. Mining
Appointment/ : 09/11/2018
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	15/03/2005
		Modif.of approved Mining Plan	11/12/2007
		Mining Scheme rule 12 MCDR1988	22/05/2009
		Modif.approved Mining Scheme	27/10/2010
		Renewal under rule 24 MCR1960	14/09/2012
		MP review under 17(1) MCR 2016	11/12/2017
		MP modif under 17(3) MCR 2016	24/07/2018
		FMCP under 23C(1)	25/09/2018
		MS modif under MCR 1960	28/02/2019
		FMCP under 23C(1)	12/04/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	93 nos of boreholes were proposed during the plan eperiof i.e. 2018-19.	59 nos were drilled during the year 2018-19.	Nil
1b	Exploration over lease area for geological axis 1 or 2	93 nos of boreholes were proposed during the plan epriod from 2018-19 for G1/g2 level.	59 nos were drilled during the year 2018-19.	35 nos of boreholes were drilled during the year 2019-20 after obtaining Forest clerance.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such specifc proposal.	Gemco kati exploration is the Agency for exploration and Expenditure inccured was Rs 17903314.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	A total of 93 nos of boreholes were proposed during the plan period to bring G1/G2 level of area to the extent 178.804 ha .	59 nos of boreholes were drilled.	35 nos of boreholes were drille during the year 2018-19.
1e	Balance reserve as on 01/04/20	As per the approved documnet on 28.02.2019 the iron ore reserves are 90.363 mil.t. and the resources are 12.024 mil.t.	due to addition and depletion over the period the iron or reserves as on 01.04.2019 are 89.3 mil.t. and the resources are 12.024 mil.t.	Nil
1f	General remarks of inspecting officers on geology, exploration etc		explorations was carried out as per the minng plan.	Nil

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	2 nos of quarries called Topadihi and Baliyasi are proposed for development during the year 2018-19.	development is carried out in 2 nos of quarries only.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No separate benches is proposed for top soil, however removal is carried out by scrapping. separate benches in OB and mineral are proposed.	separate benches in OB and Mineral are being maintained.	Nil
2c	Stripping ratio or ore to OB ratio	1: 0.042 t/cu.m.	1: 0.037 t/cu.m.	Nil
2d	Quantity of topsoil generation in m ³	4267 cu.m.	445 cu.m.	Nil
2e	Quantity of overburden generation in m ³	242490 cu.m.	210424 cu.m.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		development is carried out by opencast mining method in 2 nos of quarries.	Nil

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
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3a	Number of pit proposed for production	2 nos of quarries called Topadihi and Baliasahi are proposed for production during the year 2018-19.	production is carried out from 2 nos of quarries.	Nil
3b	Quantity of ROM mineral production proposed	5.7 mil.t.	5.69 mil.t.	Nil
3c	Recovery of saleable/usable mineral from ROM production	saleable ore 4.96 mil.t. and mineral rejects 0.73 mil.t.	saleable ore 4.8 mil.t. and mineral rejects 0.16 mil.t.	Nil
3d	Quantity of mineral reject generation	0.73 mil.t.	0.16 mil.t.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	+45%-58% Fe	+45%-58% Fe	Nil
3f	Quantity of sub grade mineral generation.	Not applicable	Nil	Addressed in mineral rejects
3g	Grade of sub grade mineral generation	NA	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	Mechanised.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Not applicable	Nil

3j	Provision of drilling and blasting in mineral benches	deep hole drilling and blasting is proposed in mineral benches.	deep hole drilling and blasting is carried out on mineral benches.	Nil
3k	Provision of mining machineries in mineral benches	shovel and dumper combination deployment is proposed for excavation and hauling.	shovel and dumper combination deployment is carried out for excavation and hauling.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	12 m and 10 m bench heights are proposed.	maintained.	Nil
3m	Total area covered under excavation/pits	51.997 ha at the end of plan period i.e.2018-19.	48.28 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.042 t/cu.m.	1: 0.037 t/cu.m.	Nil
3o	Total area put in use under different heads at the end of year	Total area put to use at the end of plan period i.e. 2019-20 is 132.18 ha.	110.435 ha.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 5.69 mil.t. 2015-16: 5.69 mil.t. 2016-17: 5.69 mil.t. 2017-18: 5.69 mil.t. 2018-19: 5.7 mil.t.	2014-15: Nil 2015-16: Nil 2016-17: Nil 2017-18: Nil 2018-19: 5.69 mil.t.	the mine operations were suspended by DDM from year 2013 to 2018.
3q	General remarks of inspecting officers on method of mining etc.		production is carried out by opencast mining method in 2 nos of quarries.	Nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	seperate dumping and utilisation of top soil is proposed. seperate dumping of waste and mineral rejects are proposed.	seperate dumping and utilisation of top soil is carried out. seperate dumping of waste and mineral rejects are carried out.	Nil
4b	Location of topsoil, OB and mineral reject dumps	waste dump-1 and waste dump-2 are desingated areas for waste dumping and for mineral rejects MR stack-4 is designated. top soil is stored and utilised.	waste generated from mines are dumped in waste dump-1 and waste dump-2 and for mineral rejects are stacked at MR stack-4 and top soil is stored and utilised.	Nil
4c	Number of dumps within lease area and outside of lease area	2 nos of dumps are proposed during the plan period which ae inside the lease area.	waste dumping is carried out in 2 nos of waste dumps with in lease area.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	proposed dumps are outside UPL	outside UPL.	Nil
4e	Number of active and alive dumps.	2 nos of dumps are proposed during the plan period.	Nil	Nil
4f	Number of dead dumps.	No proposal.	NA	Nil
4g	Number of dumps established.	No proposal.	NA	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	retaining wall and garland drain are proposed.	maintained.	Nil

4i	Length of Retaining wall or garland drain all along dumps	2047 m & 1716 m around waste dumps and mineral reject stack during the year 2018-19.	980 m of retaining wall and No garland drain has been constructed during the year.	violation observed and communicated to lessee dated 06.09.2019
4j	Number of settling ponds	4 no.s	4 no.s	Nil
4k	Specific comments of inspecting officer on waste dump management		waste dumping is carried out as per the proposals in mining plan	Nil

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.	Area not matured for reclamation and rehabilitation	NA	Nil
5b	Area under backfilling of mined out area	Not applicable	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed.	utilised.	Nil
5d	Total area fully reclaimed and rehabilitated	Not applicable	Nil	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
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	PMCP report to be submitted before 1 st July.	Nil
6b	Area available for rehabilitation (ha) .	Not applicable	Nil
6c	afforestation done (ha).	2944 nos	1055 nos gap plantation.
6e	Cumulative no .of plants	2944 nos	1055 nos
6f	Any other method of rehabilitation	Not applicable	Nil
6g	Cost incurred on watch and care during the year	1.953 lakhs	3.62 lakhs Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not applicable	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not applicable	Nil

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable 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	Not applicable Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not applicable Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not applicable Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposal has given for environmental paramaters monitoring in core and buffer zone.	carried out. Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	afforestation and coir matting over mineral rejects atck and garland drain has not been carrie dout for which violations was coominucated to lesse letter dated 06.09.2019.	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade-wise sorting id mineral is proposed.	grade-wsie sorting of mineral is carried out.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical.	mechanical.	Nil
7c	Different grade of mineral sorted out at mines.	+45%-58% Fe and above 58% Fe	+45%-58% Fe and above 58% Fe	Nil
7d	Any beneficiation process at mines	Not proposed.	Not applicable	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		grade-wise sorting of mineral is carried out.	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	seperate removal and utilisation of top soil is proposed.	top soil is seperately removed and utilised.	Nil
8b	Concurrent use or storage of topsoil	proposal for top soil removal and is concuurently utilised	top soil removed and concuurently utilised	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	seperate dumping for waste and mineral rejects are proposed.	seperate dumping for waste and mineral rejects are mainatained.	Nil

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not applicable Nil		Nil
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)	2944 nos.	1055 nos	Nil
8g	Survival rate		58%	Nil
8h	Water sprinkling on roads to control airborne dust	water sprinkling for dust suppression is proposed.	water sprinkling for dust suppression is carried out on haul roads..	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		aesthetic beauty in and around mines area is maintained.	Nil

Compliance of Rule 45:

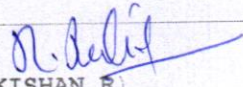
Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	monththly and annual returns are to be submitted as per rule 45 of MCDR, 2017.	submitted.	Nil

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	(i) Graduate Mining Engineer - 9 (ii) Diploma Mining Engineer - 17 (iii) Geologist - 2	found to be in order.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	110.432 ha land use utilisation reported.	found to be in order.	Nil
9d	Scrutiny of Annual return on afforestation	1055 nos.	found to be in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	168703 t	found to be in order.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock is Nil	found to be in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	production cost Rs.1227.04	production cost Rs.1227.04	Nil
9h	Scrutiny of Annual return on fixed assets	Rs. 836191713	Rs. 836191713	Nil
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 5.200 CUM - 1 dumper 30 tonnes - 15 wheel loader 4.4 cu.m. - 3	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 35(2)	06/09/2019			

Date : 18/11/19


(RAMKISHAN R)

Indian Bureau of Mines