

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Bhubaneshwar regional office

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

Mine code : 30ORI08018

- (i) Name of the Inspecting : DJ03) DILIP JAIN
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Mr. S.K. Mukherjee (Mines Manager), Mr. Rabi Narayan
Official with
Designation
- (iv) Date of Inspection : 06/02/2019
- (v) Prev.inspection date : 13/04/2018

PART-I : GENERAL INFORMATION

- (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- 94370
- (f) Police Station : GUALI
- (g) First opening date : 07/06/1953
- (h) Weekly day of rest : TUE
- Address for : VII&PO.GUALI
correspondance : POLICE STATION . BARBIL
DIST.KEONJHAR,ORISSA,PIN.758035

- (a) Lease Number : ORI0092
- (b) Lease area : 365.03
- (c) Period of lease : The period of lease has been extended upto 31/03/2020
- (d) Date of Expiry : 31/03/2020

Vide Supplementary lease dt 23/05/2018.

Mineral worked : IRON ORE Main

Original lease period:- from 27/06/1953 to 26/06/1973
1st Renewal Period :- from 27/06/1973 to 26/06/1993
2nd Renewal Period :- from 27/06/1993 to 31/03/2020.

. 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

. 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	A total of 101 BH have been proposed during the period from 2013-14 to 2017-18.	NIL.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013. Mining operations resumes on 13/04/2018.
1b	Exploration over lease area for geological axis 1 or 2	A total of 101 BH have been proposed from 2012-13 to 2017-18 to explore lease area under G1/G2 level of exploration.	No exploration work could be under taken due to suspension of Mining operation.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal of exploration Agency.	NIL.	As the mining operations were under suspension.
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per RMP approved dated 11/12/2017 a total of 161.601 Ha area to be explored.	NIL.	As the mining operations were under suspension.
1e	Balance reserve as on 01/04/20	As per RMP approved dated 11/12/2017, reserve and resource was 104.933 and 6.30a million tonnes respectively.	As per approved document 24/07/2018 updated position of reserve and resource as on 01/04/2018 are as follows: Reserve: 99.541 million tonnes and Resource: 12.024 million tonnes.	No depletion under reserve as mining operations were under suspension.
1f	General remarks of inspecting officers on geology, exploration etc	A total of 101 BH have been proposed to explore entire lease area under G1/G2 level of exploration.	Exploration work could not be undertaken due to suspension of mining operation by DDM, JODA w.e.f. 27/06/2013.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013. Mining operations resumes on 13/04/2018.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Two quarries have been proposed for development namely Topadih and Baliasahi quarry.	No developmental work during reporting year due to suspension of mining operation.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013. Mining operations resumes on 13/04/2018.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil generation, as no fresh area has been proposed for development in year 2017-18. Only intercalated waste proposed to generate, hence benches have been proposed only in Ore.	No developmental work during reporting year due to suspension of mining operation.	As the mining operations were under suspension.
2c	Stripping ratio or ore to OB ratio	1:0.67 CuM/Tonnes	NIL as no mining operation during reporting year i.e. 2017-18.	As the mining operations were under suspension.
2d	Quantity of topsoil generation in m3	No proposal of top soil generation, as no fresh area has been proposed for development in year 2017-18.	No top soil generation during year 2017-18.	As the mining operations were under suspension.
2e	Quantity of overburden generation in m3	444350 CuM.	No intercalated waste have been generated during 2017-18.	As the mining operations were under suspension.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed in two Quarries.	Developmental work could not be undertaken due to suspension of mining operations in lease area.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013. Mining operations resumes on 13/04/2018.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits have been proposed for development namely Topadih and Baliasahi quarry.	No production due to suspension of mining operation.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013. Mining operations resumes on 13/04/2018.
3b	Quantity of ROM mineral production proposed	6.66 Million tonnes.	NIL as no excavation during reporting year.	As the mining operations were under suspension.
3c	Recovery of sailable/usable mineral from ROM production	5.70 Million tonnes.	NIL as no excavation during reporting year.	As the mining operations were under suspension.
3d	Quantity of mineral reject generation	0.96 million Tonnes.	NIL as no excavation during reporting year.	As the mining operations were under suspension.
3e	Grade of mineral rejects generation and threshold value declared.	45 to 58 % Fe	As no generation of Mineral Reject.	As the mining operations were under suspension.
3f	Quantity of sub grade mineral generation.	0.96 million Tonnes.	NIL as no excavation during reporting year.	As the mining operations were under suspension.
3g	Grade of sub grade mineral generation	45 to 58 % Fe	As no generation of Mineral Reject.	As the mining operations were under suspension.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	No segregation of ROM as no excavation during reporting year i.e. 2017-18.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal of any beneficiation study.	Beneficiation study has not been carried out during the year 2017-18.	NIL.
3j	Provision of drilling and blasting in mineral benches	Wagon drill of 115mm dia. with single or double row drilling and blasting with delay detonator and Nonel.	No drilling and blasting during reporting year.	As the mining operations were under suspension.

3k	Provision of mining machineries in mineral benches	115 mm dia. wagon drill, excavator-4.3 cu.m, 2.1 cu.m, & 0.9 cu.m & trippers of 25T, 35T & 85T capacity.	NIL.	As the mining operations were under suspension.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In topadih pit bench height 12m and in Baliasahi pit bench height 10m.	Benhes as on the date of inspection found as per the proposal.	As the mining operations were under suspension.
3m	Total area covered under excavation/pits	As per approved document dated 11/12/2017 , an area of 53.40 ha was proposed during period from 2013-14 to 2017-18.	As on 01/04/2018 area covered under excavation pits was about 44.90 ha.	As the mining operations were under suspension.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.67 CuM/Tonnes	NIL as no mining operation during reporting year i.e. 2017-18.	As the mining operations were under suspension.
3o	Total area put in use under different heads at the end of year	As per approved RMP dated 11/12/2017, total area proposed under different head mining and allied activities is about 123.596 Ha.	As per approved document dated 24/07/2018, as on 01/04/2018 total degraded area was 109.615 Ha	As the mining operations were under suspension.
3p	Production of ROM mineral during the last five year period as applicable	2013-14:6.76 mT 2014-15:6.54 mT 2015-16:6.60 mT 2016-17:6.58 mT 2017-18:6.66 mT	2013-14: 0.117 mT 2014-15:Nil 2015-16: Nil 2016-17: Nil 2017-18: Nil	As the mining operations were under suspension.

3q	General remarks of inspecting officers on method of mining etc.	Production of around 6.66 million tonnes was proposed from two quarries namely Topadih and Baliasahi quarry.	Proposed production could not be achieved due to suspension of mining operation by DDM joda vide letter dated 24/06/2013.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013. Mining operations resumes on 13/04/2018.
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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)	No proposal of top soil generation, as no fresh area has been proposed for development in year 2017-18. Separate dumping of waste and mineral reject has been envisaged.	NIL as no work during reporting year.	As the Mining Operations were under suspension during 2017-18.
4b	Location of topsoil, OB and mineral reject dumps	For reporting year waste dumping was proposed near boundary pillar 19 and North of the office and camp area.	No dumping of waste during reporting year 2017-18.	As the Mining Operations were under suspension during 2017-18.
4c	Number of dumps within lease area and outside of lease area	Two dumps have been proposed within the lease area.	As on date of inspection two waste dumps have been observed within lease area.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside of UPL.	No waste dumping during reporting year.	As the Mining Operations were under suspension during 2017-18.
4e	Number of active and alive dumps.	Two dumps proposed.	As on date of inspection two waste dumps have been observed within lease area.	NIL.
4f	Number of dead dumps.	No Proposal.	Not applicable.	NIL.
4g	Number of dumps established.	No proposal.	Not applicable.	NIL.

4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain has been proposed.	Retaining wall and garland drain has been observed along the dumps.	As the Mining Operations were under suspension during 2017-18.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall of 300 mts and garland drain of 100 mts was proposed for reporting year.	Proposed work could not be undertaken due to suspension of mining operation.	As the Mining Operations were under suspension during 2017-18.
4j	Number of settling ponds	No Proposal.	Not applicable.	NIL.
4k	Specific comments of inspecting officer on waste dump management	Waste dumping has been proposed at two locations for reporting year i.e. 2017-18.	Waste material was not generated during reporting year.	As the Mining Operations were under suspension during 2017-18.

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.	An area of 2.68 Ha has been proposed for backfilling.	NIL as mining operation was under suspension.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013. Mining operations resumes on 13/04/2018.
5b	Area under backfilling of mined out area	An area of 2.68 Ha has been proposed for backfilling.	NIL as mining operation was under suspension.	As the Mining Operations were under suspension during 2017-18.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation, as no fresh area has been proposed for development in year 2017-18.	Entire top soil generated during past years have been utilized. Top soil has not been generated during the year 2017-18.	NIL.
5d	Total area fully reclaimed and rehabilitated	An area of 2.68 ha has been proposed to reclaim during 2017-18.	NIL as mining operation was under suspension.	As the Mining Operations were under suspension during 2017-18.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	An area of 2.68 ha was proposed to reclaim and plantation work has also been proposed.	No work of reclamation and rehabilitation could be completed due to suspension of mining operation by DDM Joda.	NIL.
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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).	As per rule 26(2) of MCDR, 2017, PMCP report to be submitted for previous year by 1st July.	Annual PMCP report for reporting year i.e. 2017-18 has been submitted.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013. Mining operations resumes on 13/04/2018.
6b	Area available for rehabilitation (ha) .	It was proposed to reclaim 2.68 Ha of area by the way of backfilling during reporting year.	NIL as mining operation was under suspension.	As the Mining Operations were under suspension during 2017-18.
6c	afforestation done (ha) .	0.1 Ha on OB dump and 0.86 Ha along Topadih Nala.	NIL as mining operation was under suspension.	As the Mining Operations were under suspension during 2017-18.
6d	No. of saplings planted during the year	1920 no.	NIL as mining operation was under suspension.	As the Mining Operations were under suspension during 2017-18.
6e	Cumulative no .of plants	As per approved document during period 2013-14 to 2017-18, a total of 13600 saplings were proposed to plant.	A total of 11448 saplings have been planted during the period from 2013-14 to 2017-18. Less plantation due to suspension of Mining Operations.	Figures of plants as per Annual returns.
6f	Any other method of rehabilitation	No Proposal of any other method of rehabilitation other than plantation.	NIL as mining operation was under suspension.	As the Mining Operations were under suspension during 2017-18.

6g	Cost incurred on watch and care during the year	A total of 9.7 lacks has been proposed.	NIL as mining operation was under suspension.	As the Mining Operations were under suspension during 2017-18.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	An area of 2.68 Ha has been proposed to backfill.	NIL as mining operation was under suspension.	As the Mining Operations were under suspension during 2017-18.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	124110 CuM of waste of Topadih block was proposed to backfill during reporting year.	NIL as mining operation was under suspension.	As the Mining Operations were under suspension during 2017-18.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposal of afforestation on backfilled area.	Not applicable.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal of rehabilitation by making of reservoir.	Not applicable.	NIL.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposal by any other specific means.	Not applicable.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Waste land has not been proposed for any mining activity, hence no proposal in waste land.	Not applicable in view of no proposal of any mining activity in waste land.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No Proposal of any rehabilitation in waste land.	Not applicable.	NIL.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal of any rehabilitation in waste land.	Not applicable.	NIL.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposal has been given for environment monitoring in core and buffer zone.	Environment Monitoring has not been carried out due to suspension of mining operations.	As the Mining Operations were under suspension during 2017-18.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	An area of 2.68 HA has been proposed to reclaim. Plantation over waste dump and nala portion has been proposed.	Proposed work could not be undertaken due to suspension of mining operation by DDM, Joda.	NIL.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Mainly grade wise sorting, Iron Ore from 45 to 58 % Fe and more than 58% Fe.	No osrting during reporting year 2017-18.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013. Mining operations resumes on -----
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechnical.	No osrting during reporting year 2017-18.	As the Mining Operations were under suspension during 2017-18.
7c	Different grade of mineral sorted out at mines.	No specific proposal.	No gread wise osrting during reporting year 2017-18.	As the Mining Operations were under suspension during 2017-18.
7d	Any beneficiation process at mines	No beneficiation process at mine. However, crushing and screening was proposed.	No beneficiation has been observed.	NIL.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No specific proposal of beneficiation. However, crushing and screening was proposed.	No beneficiation has been observed.	As the Mining Operations were under suspension during 2017-18.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation, as no fresh area has been proposed for development in year 2017-18.	No top soil generation during the year 2017-18.	NIL.
8b	Concurrent use or storage of topsoil	No proposal of top soil generation, as no fresh area has been proposed for development in year 2017-18.	No top soil generation during the year 2017-18.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of Waste, Mineral reject has been proposed.	Waste and mineral reject has not been generated during the reporting year. Hence, not applicable.	As the Mining Operations were under suspension during 2017-18.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	124110 CuM of waste was proposed to restore the land.	NIL as mining operation was under suspension.	As the Mining Operations were under suspension during 2017-18.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.1 Ha on OB dump and 0.86 Ha along Topadih Nala.	NIL as mining operation was under suspension.	As the Mining Operations were under suspension during 2017-18.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	As per approved document during period 2013-14 to 2017-18, a total of 13600 saplings were proposed to plant.	A total of 11448 saplings have been planted during the period from 2013-14 to 2017-18. Less plantation due to suspension of Mining Operations.	As the Mining Operations were under suspension during 2017-18.
8g	Survival rate	No Proposal.	NIL.	NIL.
8h	Water sprinkling on roads to control airborne dust	Truck mounted water sprinklar.	Water sprinkling observed over the haul road and in general.	As the Mining Operations were under suspension during 2017-18.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	124110 CuM of waste was proposed to restore the land, and plantation over an area of 0.1 Ha on OB dump and 0.86 Ha along Topadih Nalawas proposed.	No work could be undertaken due to suspension of Mining Operation by DDM Joda.	As the Mining Operations were under suspension during 2017-18.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR , monthly and annual returns to be submitted.	Monthly and annual returns have been submitted for reporting year.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information has been furnished about Mining Engineer, Geologist, and Manager.	Mining engineer and Geologist are appointed.	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	A total of 105.623 Ha area has been furnished.	Found to be in order.	NIL.

9d	Scrutiny of Annual return on afforestation	NIL as mining operation was under suspension during 2017-18.	NIL.	As the Mining Operations were under suspension during 2017-18.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL as mining operation was under suspension during 2017-18.	NIL.	As the Mining Operations were under suspension during 2017-18.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM production during the reporting year was NIL. As per AR 2017-18 ROM opening stock is 1992.000 tonnes.	ROM production was NIL during the reporting year.	As the Mining Operations were under suspension during 2017-18.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	NIL as mining operation was under suspension during 2017-18.	NIL as no dispatch during reporting year.	As the Mining Operations were under suspension during 2017-18.
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset furnished is Rs. 1422297434/-	Seems to be in order.	NIL.
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC), WHEEL LOADER, DUMPER, AIR COMPRESSOR, WATER TANKER, ROCK DRILL (NON-ELEC.), CRUSHER etc.	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 12(1)	14/02/2019		11/04/2019

Date :

(DILIP JAIN)

Indian Bureau of Mines