

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

Review and updation of Mining Plan REPORT

Ranchi regional office

Mine file No : BIH/GLA/BX/243/RRO

Mine code : 07BHR32025

- (i) Name of the Inspecting : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.P.K.Sen, Qualified Person
Official with
Designation
- (iv) Date of Inspection : 25/10/2021
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NARMA** (21)
- (b) **Registration NO.** : **IBM/1266/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : JHARKHAND
District : GUMLA
Village : NARMA
Taluka : BISHUNPUR
Post office : JOBHIPAT
Pin Code :
FAX No. : N.A.
E-mail : N.A.
Phone : 06526-224017
- (f) Police Station : BISHUNPUR
- (g) First opening date : 05/04/1990
- (h) Weekly day of rest : THU
2. Address for : VILLAGE- NARMA, P.O- JOBHIPAT,
correspondance TALUK- BISHUNPUR, DIST.- GUMLA,
JHARKHAND
3. (a) Lease Number : BHR0226
(b) Lease area : 20.99
(c) Period of lease : 50
(d) Date of Expiry : 25/03/2040
4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : M.M.P. SINGH
AT/P.O.- LOHARDAGA DIST.
LOHARDAGA LOHARDAGA
JHARKHAND
Phone:06526-24017
FAX :

Owner : M.M.P.SINGH
AT-LOHARDAGA PO/DIST-
LOHARDAGA JHARKHAND
LOHARDAGA JHARKHAND
Phone:
FAX :

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	09/05/2003
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	30/10/2014
		MP review under 17(1) MCR 2016	05/09/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Core Boreholes has been Proposed during 2020-2021	As per proposal no boreholes has been drilled during 2020-2021	
1b	Exploration over lease area for geological axis 1 or 2	No Additional exploration was proposed during 2020-2021 in the lease area for Geological axis - 1.	No Additional exploration was been drilled during 2020-2021	Total 27 boreholes have been drilled during previous plan period at 50m grid interval in the entire lease area.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal for Exploration.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Additional exploration was proposed in plan period (2020-2021)	9.0 hectares has explored to G-1. 4.80 hectares is under G-2.	Total 27 boreholes have been drilled with 326 meterage during previous plan period at 50m grid interval in the entire lease area.

1e	Balance reserve as on 01/04/20	Reserves & Resources as on 01.04.2021 Proved Mineral Reserve (111) = 771355 tons Probable Mineral Reserve (122) = 415755 tons Feasibility Mineral Resources (211) = 267982 tons Pre- Feasibility Mineral Resource (222) = 233599 tons Measured Mineral Resource (331) = 87034 tons Indicated Mineral Resource (332) = 145613 tons	Reserves & Resources as on 01.04.2021 Proved Mineral Reserve (111) = 936659 tons Probable Mineral Reserve (122) = 415755 tons Feasibility Mineral Resources (211) = 267982 tons Pre-Feasibility Mineral Resource (222) = 233599 tons Measured Mineral Resource (331) = 87034 tons Indicated Mineral Resource (332) = 145613 tons	Mine has worked for only two years, so there is less depletion of Reserves.
1f	General remarks of inspecting officers on geology, exploration etc	It is part of Chotanagpur Granite gneiss. Laterite, Bauxite and Lithomerge occur in the plateau top as capping of Chotanagpur Granite gneiss.	Bauxite deposit is not extensive and continuous but found in limited area only.	Lease is having Same Geology. Hence Core boreholes has to be drilled at closer interval to get quantity and quality

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Proposed to work in Quarry-1 nearer to section line 4-4' & 5-5' during 2020-2021.	Development has been not carried out as per the proposal for entire plan period.	Violation has issued under Rule11(1)
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It is proposed to form Separate Bench's as Topsoil - 1 bench Overburden - 3 benches Mineral - 3 benches	As per proposal benches are not formed.	
2c	Stripping ratio or ore to OB ratio	1 : 0.42	Nil	Mine is non-working from 2019-2020
2d	Quantity of topsoil generation in m3	It is proposed to remove 1942 cu.m of topsoil during 2020-2021	No topsoil has been generated against proposal.	Mine is non-working from 2019-2020
2e	Quantity of overburden generation in m3	During 2020-2021 it is proposed OB as 9013 cu.m	No OB has been removed against proposal.	Mine is non-working from 2019-2020
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed to work in Quarry-1 nearer to section line 4-4' & 5-5' during 2020-2021.	During 2020-2021, there is no generation of Topsoil & OB against the proposal.	Mine is non-working from 2019-2020

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Proposed to work in Quarry-1 nearer to section line 4-4' & 5-5' during 2020-2021.	Production has been not carried out as per the proposal for entire plan period.	Violation has issued under Rule11(1)

3b	Quantity of ROM mineral production proposed	The total target of Production was 41464 tons during 2020-2021.	Nil	Mine is non-working from 2019-2020
3c	Recovery of sailable/usable mineral from ROM production	ROM Recovery 80%	Nil	Mine is non-working from 2019-2020
3d	Quantity of mineral reject generation	It is proposed to produced 4319 cu.m of mineral rejects during 2020-2021	No mineral rejects has been achieved against proposal.	Mine is non-working from 2019-2020
3e	Grade of mineral rejects generation and threshold value declared.	Mineral reject- below the threshold value and outside the ore zone.	Mineral reject- below the threshold value and outside the ore zone.	
3f	Quantity of sub grade mineral generation.	No Sub Grade Generation	No Sub Grade Generation	
3g	Grade of sub grade mineral generation	There is No Generation of Subgrade Mineral	There is No Generation of Subgrade Mineral	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Mine is non-working from 2019-2020
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	Nil	Only Manual Picking of Ore from Intercalated Waste.
3j	Provision of drilling and blasting in mineral benches	Spacing - 1m Burden - 1m Depth - 1.5m It is Proposed to drill by Jack hammer.	Nil	Mine is non-working from 2019-2020
3k	Provision of mining machineries in mineral benches	Manual mining, no powered equipments	Nil	Mine is non-working from 2019-2020

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 1.5m was proposed in Mineral.	Nil	There is no proper bench height in all existing quarry.
3m	Total area covered under excavation/pits	3.56 hectares are under Pit during 2020-2021.	2.50 hectares are under Pit during 2020-2021.	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.42	Nil	Mine is non-working from 2019-2020
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2021. Mines = 3.56 hectare Dump = 0.87 hectare Road = 0.43 hectare	Land use Pattern as on 01.04.2021. Mines = 2.50 hectare Dump = 0.34 hectare Road = 0.32 hectare	Mine has worked for only 2 years during the approved plan period.
3p	Production of ROM mineral during the last five year period as applicable	2020-2021 = 41464 tons 2019-2020 = 41442 tons 2018-2019 = 41466 tons 2017-2018 = 41447 tons 2016-2017 = 41485 tons	2020-2021 = Nil 2019-2020 = Nil 2018-2019 = 22880 tons 2017-2018 = 19120 tons 2016-2017 = Nil	
3q	General remarks of inspecting officers on method of mining etc.	Manual Method is Proposed	Production has been not carried out as per the proposal for entire plan period.	Mine has worked for only 2 years during the approved plan period.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no proposal for dumping during 2020-2021. It is proposed to backfill the area simultaneously	As per proposal the backfilling is not done concurrently.	Violation has been issued under Rule 11(1)

4b	Location of topsoil, OB and mineral reject dumps	It is proposed to backfill during 2020-2021 on Quarry no-1 from N-43 to N-102 & E-184 to E-294.	As per proposal the backfilling has carried out in Quarry no-1.	Violation has been issued under Rule 11(1)
4c	Number of dumps within lease area and outside of lease area	Lease area =Two Non Lease area= Nil	Lease area =Nil Non Lease area= Nil	2 no of Dump have been rehandled against the proposal and Violation has been issued under Rule 11(1)
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	There is no proposal of Dump.	Nil	
4e	Number of active and alive dumps.	Active Dump =Nil Alive Dump =Nil	There is no active dump within lease area for waste dumping.	2 no of Dump have been rehandled against the proposal and Violation has been issued under Rule 11(1)
4f	Number of dead dumps.	Dead Dumps = Nil	Dead Dumps = Nil	
4g	Number of dumps established.	No dumps have been established.	No dumps have been established.	
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 is no proposal for dumping during 2020-2021. It is proposed to backfill the area simultaneously	As per proposal the backfilling is not done concurrently.	

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.	Generated OB/ Intercalated waste will be backfilled on Quarry no-1 from N-43 to N-102 & E-184 to E-294.	As per proposal the backfilling has carried out in Quarry no-1	Violation has been issued under Rule 11(1)
5b	Area under backfilling of mined out area	It is proposed to backfill 0.23 hectares during 2020-2021	No Backfill against proposal from 2018-2019 to 2020-2021	Violation has been issued under Rule 11(1)
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use	Nil	
5d	Total area fully reclaimed and rehabilitated	Reclaimed = 0.68 hect	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	It is proposed to backfill during 2020-2021 on Quarry no-1 from N-43 to N-102 & E-184 to E-294.	No Backfill against proposal from 2018-2019 to 2020-2021	

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).	It should be submitted on or before 1stJuly every year.	Not Submitted for the year 2020-2021.	Violation has pointed out under Rule 26 (2)
6b	Area available for rehabilitation (ha) .	No Proposal	Nil	
6c	afforestation done (ha).	No Proposal	Nil	
6d	No. of saplings planted during the year	No Proposal	Nil	
6e	Cumulative no .of plants	No Proposal	Nil	

6f	Any other method of rehabilitation	No Proposal	Nil	
6g	Cost incurred on watch and care during the year	No Proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.23 hectares	Nil	As per proposal the backfilling has carried out in Quarry no-1
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	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	250 saplings proposed in safety barrier area for 2020-2021	No Plantation has been planted.	Violation has been issued under Rule 11(1)
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Proposed 0.10 hect in 2020-2021	As per proposal barren land is not Afforested	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Simultaneously Backfilling	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually	Nil Survey
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	250 saplings proposed in 7.5m safety barrier area for 2020-2021	No Plantation has been planted.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The total target of Production was 41464 tons during 2020-2021.	No Production has carried out	Violation has been issued under Rule 11(1)
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Nil	
7c	Different grade of mineral sorted out at mines.	Average Grade:- Al2O3 = +42.97% Sio2 = 5.0% Cut Off Grade:- Al2O3 = +30% Sio2 = 5%	Nil	Mine is non-working from 2019-2020
7d	Any beneficiation process at mines .	Manually sizing and sorting are proposed	Nil	Mine is non-working from 2019-2020

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The total target of Production was 41464 tons during 2020-2021.	No Production has carried out	Mine is non-working from 2019-2020
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposal of removing topsoil separately and spreading over mined out area.	Nil	Mine is non-working from 2019-2020
8b	Concurrent use or storage of topsoil	Concurrent use	Nil	Mine is non-working from 2019-2020
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal of removing topsoil separately and spreading over mined out area.	Nil	Mine is non-working from 2019-2020
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	The OB and Waste generated are to be proposed to backfilled simultaneously in the mined out areas	As per proposal the backfilling has carried out in Quarry no-1	
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)	250 saplings/ year have proposed.	No Plantation has been planted.	

8g	Survival rate	No such proposal in the approved document	Nil
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, agriculture are observed in lease area	Surrounding area beyond lease area is greenery. The area is hilly terrain.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = August 2021 AR Submitted up to = 2020-2021	Both Annual & Monthly returns are submitting in online system.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Part time Mining Engineer & Geologist has shown.	It is advice to appoint full time Mining Engineer & Geologist.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern as per annual return as on 01.04.2021 Mining = 3.610 hectares Infra = 0.320 hectares	It is advice to fill as per mining plan	
9d	Scrutiny of Annual return on afforestation	No Saplings has planted inside the lease area	It is advice to plant as per proposal.	Violation has been issued under Rule 11(1)
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	There is no Mineral Rejects Generation	Nil	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Bauxite Stock as on 01.04.2021 ROM Closing stock = Nil Processed ore closing stock = 2679 tons	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex.Mine Price & Production cost is Zero	Due to Non-Working, there is no ROM, hence Ex.Mine Price & Production cost is Zero.
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is not given	It is advised to fill Fixed Assets.
9k	Scrutiny of Annual return on mining machineries	Machineries details are not given	Due to Non-working, there is no availability of machineries in field.

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)	14/12/2021			
MCDR17	Rule 11(4)	14/12/2021			
MCDR17	Rule 26(2)	14/12/2021			

Date :

(G. S. KANNAN)

Indian Bureau of Mines