

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

Mining Plan Modification REPORT

Ranchi regional office

Mine file No : BIH/PAL/GRP/565/RRO

Mine code : 28BHR18014

- (i) Name of the Inspecting : **R002**) **RAGHVENDRA KUMAR**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Kamaluddin Khalifa (Mining Engineer), Md Khalid (Geol
Official with
Designation
- (iv) Date of Inspection : 31/07/2023
- (v) Prev.inspection date : 16/03/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BETLA (MLA 7.21)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : JHARKHAND
District : LATEHAR
Village : BETLA
Taluka : MANIKA
Post office : MANIKA
Pin Code :
FAX No. : 0651-2283384
E-mail : hvbajaj@gmail.com
Phone : 0651-2283384
- (f) Police Station : MANIKA
- (g) First opening date : 24/06/1996
- (h) Weekly day of rest : SUN
2. Address for : VILL.- BETLA,
correspondance : PO/PS- MANIKA,
DISTT.- PALAMAU (JHK)
3. (a) Lease Number : BHR0534
(b) Lease area : 7.13
(c) Period of lease : 20
(d) Date of Expiry : 28/09/2015
4. Mineral worked : GRAPHITE Main

5. Name and Address of the

Lessee : PARIJAT MINING INDUSTRIES (IND) PVT. LTD
 502A, MANGAL MURTI HIEGHTS,
 5th FLOOR, RANI BAGAN,
 HARMU ROAD, RANCHI
 JHARKHAND
 Phone:0651-2283384
 FAX :0651-2283384

Owner : PARIJAT MINING INDUSTRIES (P) LTD.
 502A, MANGAL MURTI HIEGHTS,
 5th FLOOR, RANI BAGAN,
 HARMU ROAD, RANCHI
 JHARKHAND
 Phone: 0651-2283384
 FAX : 0651-2283384

Agent : S.K. BAJAJ
 OPP. SHIVAJI MAIDAN, AT/PO-
 DALTONGANJ DISTT.- PALAMAU
 (JHK) PALAMAU JHARKHAND
 Phone:
 FAX :

Mining Engineer

Name : KAMALUDDIN KHALIFA, Full Time
 Qualification : DIP. IN MINING ENGINEERING
 Appointment/ : 04/08/2022
 Termination date

Geologist

Name : M.K.MUKHOPADHYAY, Full Time
 Qualification : M.Sc(Geo)
 Appointment/ : 22/09/2003 03/08/2024
 Termination date

Geologist

Name : P.K. SEN, Part Time
 Qualification : M.Sc(GEOLOGY)
 Appointment/ : 24/06/1996 01/09/2003
 Termination date

Geologist

Name : MD KHALID, Full Time
 Qualification : MSc.GEO
 Appointment/ : 01/04/2022
 Termination date

Manager

Name : R.N. UPADHYAY
 Qualification : MINING MATE
 Appointment/ : 12/08/2000 01/01/2006
 Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 17/06/1996
 Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 14/11/2014
 MP review under 17(1) MCR 2016 12/09/2016

MP review under 17(1) MCR 2016

02/05/2022

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal.	Nil.	Nil.
1b	Exploration over lease area for geological axis 1 or 2	04 numbers of boreholes have been Proposed during 2022-2023.	As per proposal no boreholes have been drilled during 2022-2023.	Violation of Rule 11(1) has been issued.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration proposed during 2022-23.	No exploration work was carried out.	Exploration work was not carried out due to land acquisition issue.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G4 to G1, 4.656 Ha. (non forest).	2.21 has explored to G-1 & 0.35 ha. has explored to G-2 (non forest).	No boreholes have been drilled so far in the lease area and Reserves and Resources are estimate based on depth of Quarry has been considered under G-1.
1e	Balance reserve as on 01/04/20	Balance Reserve as on 01/04/2024 - (Tones) 111 - 76302, 121 - 0, 122 - 15048	Balance Reserve as on 01/04/2024 - (Tones) 111 - 93748, 121 - 0, 122 - 15048	9356 Ton production has been achieved during FY 2022-23
1f	General remarks of inspecting officers on geology, exploration etc	04 numbers of boreholes have been Proposed during 2022-2023.	As per proposal no boreholes have been drilled during 2022-2023.	Exploration work was not carried out due to land acquisition issue.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Quarry 1, N2649772-N2649856, E232761-E232939.	Working has been carried out as per the proposal.	Nil.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It is proposed to form separate Bench's as Topsoil - 1 Overburden benches - 2 Mineral benches - 2	As per proposal benches are not formed.	Violation has been issued under Rule 11(1).
2c	Stripping ratio or ore to OB ratio	1 :1.5	1 :1.6	Nil.
2d	Quantity of topsoil generation in m3	3405 cum	3400 cum	Nil.
2e	Quantity of overburden generation in m3	During 2022-2023 it is proposed OB as 23078 Cu.m	23075 Cu.m	Nil.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed to work in Quarry 1, N2649772-N2649856, E232761-E232939.	As per proposal benches are not formed.	Violation has been issued under Rule 11(1).

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Quarry 1	Quarry 1	Nil.
3b	Quantity of ROM mineral production proposed	26802 ton	9356 ton	Less production achieved.
3c	Recovery of sailable/usable mineral from ROM production	80% of excavation	80% of excavation	Graphite, approx mineral-80%, approx gangue mineral-20%.
3d	Quantity of mineral reject generation	5361 ton.	1870 ton	Nil.
3e	Grade of mineral rejects generation and threshold value declared.	Graphite, approx mineral-80%, approx gangue mineral-20%.	Graphite, approx mineral-80%, approx gangue mineral-20%.	Threshold Value for Mineral rejects is not Declared.

3f	Quantity of sub grade mineral generation.	There is No Generation of Subgrade Mineral.	There is No Generation of Subgrade Mineral.	Nil.
3g	Grade of sub grade mineral generation	N/A	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.	Nil.	Only Manual Picking of Ore from Intercalated Waste.
3j	Provision of drilling and blasting in mineral benches	It is Proposed to use crackamite in this area to breaking or cracking of OB.	Crackamite are used as per proposal.	Crackamite is mixed with clean water and poured into pre-drilled holes on rock and concrete.
3k	Provision of mining machineries in mineral benches	Hydraulic Excavators Poclain Water Tanker Tippers	As per proposal machineries are available in field.	Nil.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 6m was proposed in Mineral.	Benches are formed 7-8m height.	Violation has been issued under Rule 11(1).
3m	Total area covered under excavation/pits	A 1.907 hect. area is under Pit.	A 1.907 hect. area is under Pit.	Nil.
3n	Ore to OB ratio for the pit/mine during the year.	1 :1.5	1 :1.6	Nil.
3o	Total area put in use under different heads at the end of year	3.1835 Ha.	3.1835 Ha.	Nil.

3p	Production of ROM mineral during the last five year period as applicable	2018-19=30691 T 2019-20=31824 T 2020-21=31762 T 2021-22=NO Proposal 2022-23= 26802 T	2018-19=3251.832 2019-20=4676.409 2020-21=3259.415 2021-22= Nil. 2022-23= 9356 T	ALL PRODUCTION WITHIN APPROVED PLAN.
3q	General remarks of inspecting officers on method of mining etc.	Mechanised Method is Proposed.	Benches are formed 7-8m height.	Violation has been issued under Rule 11(1).

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NORTH & EAST OF THE LEASE.	As per proposal the dumping is carried out in Dump area.	Nil.
4b	Location of topsoil, OB and mineral reject dumps	NORTH & EAST OF THE LEASE.	NORTH & EAST OF THE LEASE.	Nil.
4c	Number of dumps within lease area and outside of lease area	Lease area = 2 Non Lease area = Nil	Lease area = 2 Non Lease area = Nil	Nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump is proposed outside the UPL.	All 2 dumps are outside the Pit and within the lease area.	Nil.
4e	Number of active and alive dumps.	Active Dump = One Alive Dump = Nil	Active Dump = One Alive Dump = Nil	There is 1 active dump within lease area for Waste dumping.
4f	Number of dead dumps.	Dead Dumps = One.	Dead Dumps = One.	Nil.
4g	Number of dumps established.	Dumps Established= One.	Dumps Established= One.	Nil.

4h	Whether Retaining wall or garland drain all along dumps are there.	YES.	YES, GARLAND DRAIN IS MAINTAINED.	Nil.
4i	Length of Retaining wall or garland drain all along dumps	YES.	300 MTR.	Nil.
4j	Number of settling ponds	No Proposal.	Nil.	PIT IS USED AS SETTLING POND.
4k	Specific comments of inspecting officer on waste dump management	Generated OB/Intercalated waste will be dumping in North and East part of the lease area.	As per proposal the dumping is carried out in Dump area.	All 2 dumps are outside the Pit and within the lease area.

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.	Full extraction.	Full extraction.	Nil.
5b	Area under backfilling of mined out area	No proposal.	Nil.	0.094 ha. area reclaimed but not rehabilitated.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	Nil.	Nil.
5d	Total area fully reclaimed and rehabilitated	No proposal.	Nil.	Nil.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No Back filling has been proposed.	No backfilling and reclamation done.	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).	It should be on or before 1st July every year.	Submitted for the year 2022-2023.	Nil.
6b	Area available for rehabilitation (ha) .	No proposal	Nil	Nil, as the ore is not completely exhausted.
6c	afforestation done (ha).	No Proposal	Nil	Nil, as the ore is not completely exhausted.
6d	No. of saplings planted during the year	No Proposal.	Nil.	Nil, as the ore is not completely exhausted.
6e	Cumulative no .of plants	No Proposal.	Nil.	Nil, as the ore is not completely exhausted.
6f	Any other method of rehabilitation	No Proposal.	Nil.	Nil, as the ore is not completely exhausted.
6g	Cost incurred on watch and care during the year	No Proposal.	Nil.	Nil, as the ore is not completely exhausted.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	Nil.	Nil, as the ore is not completely exhausted.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Nil	Nil, as the ore is not completely exhausted.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal.	Nil.	Nil, as the ore is not completely exhausted.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Nil.	Nil, as the ore is not completely exhausted.

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Nil	Nil, as the ore is not completely exhausted.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	530 saplings in 0.212 ha. Green Belt area.	530 saplings in 0.212 ha. Green Belt	Nil.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Nil.	Nil.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Nil.	Nil.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Every quarterly at 3 stations.	Environment monitoring is carried out through own as well as private agency.	Nil.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	It was proposed to plant 530 saplings in 0.212 ha. Green Belt area.	530 Saplings have been planted during 2022-2023 inside the lease area.	The ore is not completely exhausted.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The total target of ROM Production was 26802 tons during 2022-2023.	9356 tons has been achieved during 2022-2023.	Nil.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Process and Manual Picking of Ore from Intercalated Waste.	Mechanical Process and Manual Picking of Ore from Intercalated Waste.	Nil.

7c	Different grade of mineral sorted out at mines.	Size = Lump > 200mm Fixed Carbon = 15.32 Ash = 80.86.	Size = Lump > 200mm Fixed Carbon = 15.32 Ash = 80.86.	Low grade are Blended with High grade ores to get the desired plant feed materials.
7d	Any beneficiation process at mines .	Manually sizing and sorting is Proposed.	Manually sizing and sorting is being done.	Nil.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The total target of ROM Production was 26802 tons during 2022-2023.	9356 tons has been achieved during 2022-2023.	Low grade are Blended with High grade ores to get the desired plant feed materials.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal.	NIL.	Gritty Soil.
8b	Concurrent use or storage of topsoil	No Proposal.	NIL.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Generated OB/Intercalate d waste will be dumping in North and East part of the lease area.	As per proposal dumping is carried out at the Dump area.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Nil.	Nil, as the ore is not completely exhausted.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Nil.	Nil, as the ore is not completely exhausted.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	It was proposed to plant 530 saplings in 0.212 ha. Green Belt area.	530 Saplings have been planted during 2022-2023 inside the lease area.	Cumulative - 1440 plants.
8g	Survival rate	No proposal.	50%	Nil.
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling on road is observed during the inspection.	Nil.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	There is no proposal of backfilling of mined out pit.	530 Saplings have been planted during 2022-2023 inside the lease area.	As per proposal, dumping is carried out at the Dump area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted.	Submitted.	Nil.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge Kamaluddin Khalifa Geologist in charge Md Khalid.	Mining Engineer in charge Kamaluddin Khalifa Geologist in charge Md Khalid.	Nil.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use Pattern as on 01.04.2024. Mines = 1.68 hect Dump = 0.166 hect Roads/Infra = 0.026 hect	Land use Pattern as on 01.04.2024. Mines = 1.68 hect Dump = 0.166 hect Roads/ Infra = 0.026 hect Reclaimed = 0.10 hect	Nil.

9d	Scrutiny of Annual return on afforestation	530 saplings has planted Inside the lease area and 180 saplings outside the lease area during 2022-2023.	Seems to be correct.	Nil.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject generation not shown.	Graphite, approx mineral-80%, approx gangue mineral-20%.	Nil.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Graphite Stock as on 01.04.2024 ROM Closing stock = Nil. Processed ore less than 20% fixed carbon dispatch = 9356 tons	Mine has produced 9356 tons of Production during 2022-2023.	Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production & Ex. Mine Price has shown.	Some invoice has been checked and matching.	Nil.
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given.	Seems to be correct.	Nil.
9k	Scrutiny of Annual return on mining machineries	Machineries details given.	DUMPER 10.000 TONNE =2 Non Electrical Opencast PUMPS (NON ELEC.) 500.000 L/MN =1 Non Electrical Opencast SHOVEL (HYDRAULIC) 0.320 CUM= 1	As available 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
Rule 45(1)(a)		17/09/2012					
Rule 45(1)(c)		17/09/2012					
MCDR17	Rule 11(1)	07/02/2023	24/03/2023				
MCDR17	Rule 11(1)	20/09/2023	16/01/2024				
MCDR17	Rule 13(2)	20/09/2023	16/01/2024				
MCDR17	Rule 46(a)	20/09/2023	16/01/2024				

Date :

(RAGHVENDRA KUMAR)

Indian Bureau of Mines