

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

Review and updation of Mining Plan REPORT

Ranchi regional office

Mine file No : BIH/ROH/LST/346/RRO

Mine code : 38BHR22015

- (i) Name of the Inspecting : **K03**) **G. S. KANNAN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Sanjay Singh, DGM, Mines
Official with
Designation
- (iv) Date of Inspection : 02/12/2021
- (v) Prev.inspection date : 12/04/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MURLI PAHARI**
- (b) **Registration NO.** : **IBM/209/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : BIHAR
- District : ROHTAS
- Village : MURLI PAHARI
- Taluka : DEHRI-ON-SONE
- Post office : BANJARI
- Pin Code : 821303
- FAX No. : 06188-233242
- E-mail : sanjaysingh@kalyanpur.com
- Phone : 06188-233215, 233413
- (f) Police Station : Banjari
- (g) First opening date : 20/07/1992
- (h) Weekly day of rest : SUN
2. Address for : VILL-MURLIPAHARI
correspondance : ROHTAS
DIST-ROHTAS, PIN-821303
3. (a) Lease Number : BHR0139
- (b) Lease area : 53.38
- (c) Period of lease : 50
- (d) Date of Expiry : 01/01/2042
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S DALMIA DSP LTD.
 AT & P.O. - BANJARI
 ROHTAS BIHAR
 Phone:
 FAX :

Owner : Sri Sunil Kumar Gupta, Director
 Dlmia DSP Limited/ KCL 2&3
 Dr. Rajendra Pd. Sarani
 Kolkata(W.B.) India, 700001
 ROHTAS BIHAR
 Phone:
 FAX :

Agent : Sanjay Kr. Singh
 M/s Kalyanpur Cements Ltd.
 At & PO- Banjari- 821303
 Dist- Rohtas (Bihar) ROHTAS
 BIHAR
 Phone: 06188-233055
 FAX :

Mining Engineer

Name : DHARMENDRA KUMAR SINGH, Full Time
 Qualification : B. E. (Mining)
 Appointment/ : 12/10/2012
 Termination date

Mining Engineer

Name : SANJAY KUMAR SINGH, Full Time
 Qualification : B.E.(MINING), FIRST CLASS MANAGER
 Appointment/ : 01/12/2003
 Termination date

Manager

Name : SANJAY KR. SINGH
 Qualification : B.E.(MINING), FIRST CLASS MANAGER
 Appointment/ : 01/12/2003
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	11/07/1989
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	27/11/1998
		Mining Scheme rule 12 MCDR1988	14/09/2007
		Renewal under rule 24 MCR1960	21/05/2012
		MP review under 17(1) MCR 2016	16/05/2018

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 the approved plan period.	As per proposal, No boreholes have been drilled.	Nil
1b	Exploration over lease area for geological axis 1 or 2	No Additional Exploration was proposed during 2020-2021 in the lease area.	No Additional exploration was carried out in the lease area for Geological axis - 1 during 2020-2021	Total 19 boreholes have been drilled in the lease area.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal for Exploration during 2020-2021.	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Exploration was proposed out at 100m x 100m grid interval. No Additional exploration was proposed during 2020-2021.	No Exploration was carried out at 100m x 100m grid interval.	As per approved document 19 boreholes have been drilled so far in the lease area and 62.95 hectares has explored to G-1. 2.36 hectares is under G-2.
1e	Balance reserve as on 01/04/20	Reserves & Resources as on 01.04.2021 Proved Mineral Reserves (111) = 9765543 tons Feasibility Mineral Resources (211) = 490500 tons	Reserves & Resources as on 01.04.2021 Proved Mineral Reserves (111) = 10807750 tons Feasibility Mineral Resources (211) = 490500 tons	Due to less production, there is change in Reserves.
1f	General remarks of inspecting officers on geology, exploration etc	It is part of Rohtas Limestone in Semri group of Vindhyan Sub group.	Formation comprises of shale and limestone beds overlain by shale and sandstone.	Lease is having alternate strata ranges from few cm to 1m. Hence borehole has to be drilled at closer interval to get quantity and quality

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed to work in existing Pit-1 along the periphery from top downwards of the hill during 2020-2021.	Development has not been carried out as per the proposal	Violation has been issued under Rule 11(1)
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It is proposed to form separate Bench's in Topsoil, Overburden and Mineral.	Separate Benches are formed for Topsoil, Overburden and Mineral.	Nil
2c	Stripping ratio or ore to OB ratio	1 : 2.82	1 : 2.06	Nil
2d	Quantity of topsoil generation in m3	It is no proposal to remove topsoil during 2020-2021	As per proposal. No topsoil has been generated.	Nil
2e	Quantity of overburden generation in m3	During 2020-2021 it is proposed OB as 1123332 cu.m	2055270 tons of OB has been removed.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed to work in existing Pit-1 along the periphery from top downwards of the hill during 2020-2021.	2055270 tons of OB has been removed.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Proposed to work in existing Pit-1 along the periphery from top downwards of the hill during 2020-2021.	Production has not been carried out as per the proposal.	Violation has been issued under Rule 11(1)

3b	Quantity of ROM mineral production proposed	The total target of Production was 995670 tons during 2020-2021.	Production achieved during 2020-2021 is 999870 tons.	Violation has been issued under Rule 11(1)
3c	Recovery of sailable/usable mineral from ROM production	ROM Recovery 90%	90%	Nil
3d	Quantity of mineral reject generation	No proposal for mineral reject during 2020-2021	No mineral rejects has been generated.	Nil
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.	NIL
3f	Quantity of sub grade mineral generation.	There is no proposal to produced Subgrade mineral generation during 2020-2021	No Subgrade mineral has been generated during 2020-2021	Nil
3g	Grade of sub grade mineral generation	There is no proposal to produced Subgrade mineral generation during 2020-2021	No Subgrade mineral has been generated during 2020-2021	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.	There is no proposal for any beneficiation within lease area	NIL	Only Manual picking of Ore from Intercalated waste.

3j	Provision of drilling and blasting in mineral benches	Spacing - 4.0 m Burden - 3.0 m Depth - 6-8 m It is Proposed to drill by 32mm to 115mm dia, crawler mounted down hole drill. Control Blasting is done by using delay detonator.	Drilling & Blasting are done as per proposal.	NIL
3k	Provision of mining machineries in mineral benches	Hydraulic Excavators Dumpers Compressor Jack Hammer Tractor Dozer Water Tanker Electric generator	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 not as per proposal and height is more than proposal.	Violation has been issued under Rule 11(1)
3m	Total area covered under excavation/pits	32.5 hect area proposed under Pit	33.50 hect area is under Pit	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1 : 2.82	1 : 2.06	NIL
3o	Total area put in use under different heads at the end of year	Landuse Pattern as on 01.04.2021 Mining area = 32.50 hect OB Dump = 11.00 hect Roads = 1.00 hect	Landuse Pattern as on 01.04.2021 Mining area = 33.50 hect OB Dump = 10.00 hect Roads = 1.00 hect	NIL

3p	Production of ROM mineral during the last five year period as applicable	2020-2021 = 995670 tons 2019-2020 = 999750 tons 2018-2019 = 842400 tons 2017-2018 = No Proposal 2016-2017 = 900000 tons	2020-2021 = 999870 tons 2019-2020 = 555793 tons 2018-2019 = 239950 tons 2017-2018 = Nil 2016-2017 = Nil	Violation has issued
3q	General remarks of inspecting officers on method of mining etc.	Mechanised Method is Proposed	999870 tons has been achieved during 2020-2021.	NIL

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 proposal for dumping in existing dump in NE during 2020-2021	As per proposal the dumping are not carried out.	Violation has been issued under Rule 11(1)
4b	Location of topsoil, OB and mineral reject dumps	It is proposed to dump in dump yard in NE side during 2020-2021.	As per proposal the dumping is done in NE side and also unproposed Northern & NW Side during 2020-2021.	Violation has been issued under Rule 11(1)
4c	Number of dumps within lease area and outside of lease area	Lease area =2 Non Lease area= 2	Lease area = 3 Non Lease area= 2	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL.	As per proposal dumps are formed outside UPL.	Nil
4e	Number of active and alive dumps.	Active Dump =1 Alive Dump =Nil	There are 2 active dumps within lease area against the proposal.	NIL
4f	Number of dead dumps.	Dead Dumps = Nil	NIL	NIL
4g	Number of dumps established.	No dumps have been established.	No dumps have been established.	NIL

4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	Retaining wall has been constructed along the dump	NIL
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	350m of Retaining wall has constructed.	NIL
4j	Number of settling ponds	No Proposal	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	There is proposal for dumping in existing dump in NE during 2020-2021.	As per proposal the dumping is done in NE side and also unproposed Northern & NW Side during 2020-2021.	Retaining wall has been constructed along the dump

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.	Part Backfilling has proposed during 2020-2021 nearer to Boundary Pillar-13 & 1 on western side of lease area.	Backfilling has done as per proposal and on 7.5m safety barrier also.	Violation has been issued under Rule 11(1)
5b	Area under backfilling of mined out area	1.50 hectares area proposed for partly Backfilling	Backfilling has done more than the proposal.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal for concurrent use of topsoil	There is no topsoil generation.	NIL
5d	Total area fully reclaimed and rehabilitated	No Proposal for fully reclaimed and rehabilitated.	1.0 hectares has rehabilitated.	NIL

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Part Backfilling has proposed during 2020-2021 nearer to Boundary Pillar-13 & 1 on western side of lease area.	Backfilling has done more than the proposal.	Ore is not extracted upto the proved depth and no fully backfilling are proposed in the present plan period.
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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).	It should be on or before 1st July every year.	Submitted for the year 2020-2021.	Nil
6b	Area available for rehabilitation (ha) .	No proposal	NIL	NIL
6c	afforestation done (ha).	Proposed 0.025 hect during 2020-2021	As per proposal plantation has done	NIL
6d	No. of saplings planted during the year	250 saplings proposed in backfilled area for 2020-2021	2850 saplings has planted	NIL
6e	Cumulative no .of plants	250 saplings proposed in backfilled area for 2020-2021	2850 saplings has planted	Nil
6f	Any other method of rehabilitation	No Proposal	No Proposal	NIL
6g	Cost incurred on watch and care during the year	No Proposal	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	2.0 hectares has proposed for backfilling	2.50 hectares has backfilled.	Nil

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.5 hectares proposed	2.00 hectares has achieved.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	250 saplings proposed in backfilled area for 2020-2021	2850 saplings has planted	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No Proposal	Nil	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)	Bi-Annually Survey	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.	Environment monitoring is carried out through own as well as private agency.	2850 saplings have planted against 250 saplings proposal.	Nil
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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 995670 tons during 2020-2021.	Production achieved during 2020-2021 is 999870 tons.	Violation has been issued under Rule 11(1)
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Process	Mechanical Process and manual picking of ore from intercalated waste	NIL
7c	Different grade of mineral sorted out at mines.	The Limestone of the lease area is cement grade. Total Carbonate varies from 76% to 80%	The Limestone of the lease area is cement grade. Total Carbonate varies from 76% to 80%	Low grade are Blended with High grade ores to get the desired plant feed materials.
7d	Any beneficiation process at mines .	Crushing & Screening process at Cement plant outside the lease area	Nil	Entire ROM is transported to crusher installed in Dalmia (Kalyanpur) Cement Plant.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Entire ROM is transported to crusher installed in Dalmia (Kalyanpur) Cement Plant.	999870 tons has been achieved during 2020-2021 against 995670 tons of proposal.	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	NIL

8b	Concurrent use or storage of topsoil	No Proposal	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	It is proposed to dump in NE side during 2020-2021	As per proposal the dumping is done in NE side and also on SE side of lease area during 2020-2021.	Violation has been issued under Rule 11(1)
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	250 saplings proposed in backfilled area for 2020-2021	2850 saplings has planted	NIL
8g	Survival rate	80%	65%	NIL
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Water sprinkling on road is observed during the inspection.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No vegetation, agriculture are observed in lease area	Surrounding area beyond lease area is greenery. River Son is passing nearer to the lease area.	NIL

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	MR Submitted upto = November 2021 AR submitted upto = 2020-2021	NIL	Both Annual & Monthly returns are submitting in online system.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Full time Mining Engineer and Geologist has shown	As per record Mining Engineer and Geologist are present during Inspection	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use Pattern as on 01.04.2021. Mines = 33.50 hect Reclaimed/ Rehabilitated = 1.50 hect Dump = 10.00 hect	Landuse Pattern is filled as per approved Mining Plan	NIL
9d	Scrutiny of Annual return on afforestation	2850 saplings achieved during 2020-2021 inside the lease area and 3280 outside the lease area.	As per proposal plantation has done.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	There is no Mineral Rejects Generation	There is no Mineral Rejects Generation	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Limestone Stock as on 01.04.2021 ROM Opening stock = Nil ROM Closing stock = Nil	Mine has produced 999870 tons of Production during 2020-2021	It is captive Mine of M/s. Dalmia DSP (Kalyanpur) Cements.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production & Ex. Mine Price has shown	It is captive mine of M/s. Dalmia DSP (Kalyanpur) Cements.	NIL
9h	Scrutiny of Annual return on fixed assets	Fixed Assets is given	Fixed Assets is filled	NIL

9k	Scrutiny of Annual return on mining machineries	Machineries details given	As available in field	NIL
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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)	25/01/2022			

Date :

(G. S. KANNAN)

Indian Bureau of Mines