

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

**Review and updation of Mining Plan REPORT**

**Ranchi regional office**

**Mine file No :** JHK/RNC/LST/307/RRO

**Mine code :** 38BHR21001

- (i) Name of the Inspecting : **K03** ) **G. S. KANNAN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri.Ashok Kumar-Mines Manager & Shri.V.B.Mishra-Qual  
Official with  
Designation
- (iv) Date of Inspection : 11/05/2021
- (v) Prev.inspection date : 08/05/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BENTIBAGDA**
- (b) **Registration NO.** : **IBM/5281/2011**
- (c) **Category** : **A Other than Fully Mech.**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **JHARKHAND**
- District : **RANCHI**
- Village : **BENTISALHAN**
- Taluka : **KANKE**
- Post office : **CHAINGARA**
- Pin Code :
- FAX No. : **0651-2491916**
- E-mail : **contact@jsmdc.in**
- Phone : **0651-2491841,2491842,2491843**
- (f) **Police Station** : **PATRATU**
- (g) **First opening date** : **27/06/1976**
- (h) **Weekly day of rest** : **MON**
2. **Address for correspondance** : **VILL-BENTI BAGDA,TAHASIL-KANKE**  
**PO-CHAINGARHA, P.S- PATRATU, DIST-RANCHI**  
**JHARKHAND-835214**
3. (a) **Lease Number** : **BHR0016**
- (b) **Lease area** : **104.02**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **04/05/2026**
4. **Mineral worked** : **LIMESTONE** **Main**

## 5. Name and Address of the

Lessee : M/S J.S.M.D.C.LTD  
 KHANIJ NIGAM BHAWAN  
 DORANDA, RANCHI-834002  
 JHARKHAND RANCHI JHARKHAND  
 Phone:  
 FAX :

Owner : ABOOBACKER SIDDIQUEE  
 M/S J.S.M.D.C.LTD, KHANIJ  
 NIGAM BHAWAN, P.O.-DORANDA,  
 RANCHI- 834002. RANCHI  
 JHARKHAND  
 Phone:  
 FAX :

Agent : UMESH KUMAR SINGH  
 M/s J.S.M.D.C. Ltd. Khanij  
 Nigam Bhawan, Doranda,  
 Ranchi. RANCHI JHARKHAND  
 Phone:  
 FAX :

Mining Engineer  
 Name : SRI UMESH KUMAR SINGH, Full Time  
 Qualification : B.E(MIN), 2ND CLASS MINES MANAGER CERTIF  
 Appointment/ : 11/08/2012  
 Termination date

Manager  
 Name : UMESH KUMAR SINGH  
 Qualification : 2nd Class Manager's Certificate  
 Appointment/ : 11/08/2012  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	22/08/2002
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	31/01/2013
		MP review under 17(1) MCR 2016	08/06/2018

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	16 Core Boreholes has Proposed during 2019-2020.	No Boreholes has been drilled as per proposal.	Mine is non-working from 2012 for want of statutory clearance.
1b	Exploration over lease area for geological axis 1 or 2	Total 16 - Additional exploration was proposed during 2019-2020 in the lease area for Geological axis - 1 and 2 in Non forest area.	Additional exploration was not carried out in the lease area for Geological axis - 1 and 2.	No Exploration has been carried out. Mine is non-working from 2012 for want of statutory clearance.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Own drilling and/ or Contract drilling machines were proposed for Exploration.	No Boreholes has drilled	Mine is non-working from 2012 for want of statutory clearance.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was proposed out at 200m grid interval. 16 Additional exploration was proposed during 2019-2020	No Exploration was carried out at 200m grid interval.	As per approved document 28 boreholes have been drilled so far in the lease area at 100m grid interval.
1e	Balance reserve as on 01/04/20	Reserves & Resources as on 01.04.2021 Proved Mineral Reserves (111) = 2118634 Tons Pre-Feasibility Mineral Resources (221) = 1513099 Tons Measured Mineral Resources (331) = 1231135 tons	Reserves & Resources as on 01.04.2021 Proved Mineral Reserves (111) = 2296731 Tons Pre-Feasibility Mineral Resources (221) = 1513099 Tons Measured Mineral Resources (331) = 1231135 tons	Mine is non-working from 2012 for want of statutory clearance. So there is change in R & R.

1f	General remarks of inspecting officers on geology, exploration etc	It is part of Chotanagpur Granite gneiss of Precambrian age	Limestone interbanded with phyllites is occurring as discontinuous band.	Lease is having Same Geology. Thickness of band is changes from place to place. Hence borehole has to be drilled at closer interval to get quantity and quality
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed to work in Quarry-2, 3 & 5 during 2020-2021.	Working has been not carried out as per the proposal	Mine is non-working from 2012 for want of statutory clearance.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It is proposed to form Single bench of Limestone with SB in Quarry - 3 & 5. Two benches of Limestone with SB in Quarry - 2	As per proposal benches are not formed.	Mine is non-working from 2012 for want of statutory clearance.
2c	Stripping ratio or ore to OB ratio	1 : 0.67 during 2020-2021	Nil during 2020-2021	Mine is non-working from 2012 for want of statutory clearance.
2d	Quantity of topsoil generation in m3	No topsoil generation is proposed.	No topsoil has been generated as per proposal.	Mine is non-working from 2012 for want of statutory clearance.
2e	Quantity of overburden generation in m3	During 2020-2021 it is proposed OB as 24794 cu.m	No OB has been generated as per proposal.	Mine is non-working from 2012 for want of statutory clearance.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed to work in Quarry-2, 3 & 5 during 2020-2021.	No OB & Topsoil has been generated as per proposal.	Mine is non-working from 2012 for want of statutory clearance.

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Exploitation:

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Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Proposed to work in Quarry-2, 3 & 5 during 2020-2021.	Development and production are not carried out as per proposal during 2020-2021	Mine is non-working from 2012 for want of statutory clearance.
3b	Quantity of ROM mineral production proposed	The total target of Production was 59205 tons during 2020-2021.	No production has been achieved during 2020-2021.	Mine is non-working from 2012 for want of statutory clearance.
3c	Recovery of sailable/usable mineral from ROM production	60% Recovery	Nil for 2020-2021.	Mine is non-working from 2012 for want of statutory clearance.
3d	Quantity of mineral reject generation	No Proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Mineral reject- No Proposal. Threshold Value for Mineral rejects is not Declared	Mineral reject- No Proposal. Threshold Value for Mineral rejects is not Declared	
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 method	Manual method	
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 - 3.5 m Burden - 3.0 m Depth - 6 m It is Proposed to drill by 100mm dia, crawler mounted down hole drill.	Drilling & Blasting are not carried out during 2020-2021 due to non-working.	Mine is non-working from 2012 for want of statutory clearance.

3k	Provision of mining machineries in mineral benches	Hydraulic Excavators Compressor Jack Hammer Water Tanker Tippers	As per proposal machineries are not available in field.	
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.	New Benches are formed.	
3m	Total area covered under excavation/pits	8.52 hect area is proposed under Pit as on 2020-2021	8.24 hect areas are under Pit as on 2020-2021.	Mine is non-working from 2012 for want of statutory clearance.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.67 during 2020-2021	Nil during 2020-2021	Mine is non-working from 2012 for want of statutory clearance.
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2021. Mines = 8.52 hect Dump = 3.12 hect Roads = 2.865 hect	Land use Pattern as on 01.04.2021. Mines = 8.24 hect Dump = 1.88 hect Roads = 2.865 hect	There is no change in landuse pattern from 2012
3p	Production of ROM mineral during the last five year period as applicable	2020-2021 = 59205 tons 2019-2020 = 59073 tons 2018-2019 = 59819 tons 2017-2018 = Nil 2016-2017 = Nil	2020-2021 = Nil 2019-2020 = Nil 2018-2019 = Nil 2017-2018 = Nil 2016-2017 = Nil	Mine is non-working from 2012 for want of statutory clearance.
3q	General remarks of inspecting officers on method of mining etc.	Mechanised Method is Proposed	Development and production are not carried out as per proposal during 2020-2021	Mine is non-working from 2012 for want of statutory clearance.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Generated OB/ Intercalated waste will be dumping in between Section line 1A-1A' on Northern side during 2020-2021	As per proposal the dumping is not carried out and in the proposed area.	Mine is non-working from 2012 for want of statutory clearance.
4b	Location of topsoil, OB and mineral reject dumps	Generated OB/ Intercalated waste will be dumping in between Section line 1A-1A' on Northern side during 2020-2021	As per proposal the dumping is not carried out and in the proposed area.	Mine is non-working from 2012 for want of statutory clearance.
4c	Number of dumps within lease area and outside of lease area	Lease area = 6 Non Lease area = Nil	Lease area = 5 Non Lease area = Nil	New Dump is not formed and old dumps 1, 2, 3, 3A & 4 are existing in the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump is proposed outside the UPL	As per proposal the dumping is not carried out in the proposed area.	Mine is non-working from 2012 for want of statutory clearance.
4e	Number of active and alive dumps.	Active Dump = 1  Alive Dump = Nil	Active Dump = Nil  Alive Dump = Nil	It is proposed one new active dump during this proposed plan period.
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	Generated OB/ Intercalated waste will be dumping in between Section line 1A-1A' on Northern side during 2020-2021	As per proposal the dumping is not carried out and in the proposed area.	Mine is non-working from 2012 for want of statutory clearance.
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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.	No Back filling has proposed	No Backfilling has done	
5b	Area under backfilling of mined out area	No Back filling has proposed	No Backfilling has done	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No Proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No Back filling has proposed	No Backfilling has done	Mine is non-working from 2012 for want of statutory clearance.

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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 submitted on or before 1st July every year.	Not Submitted for the year 2020-2021	Mine is non-working from 2012 for want of statutory clearance.



6b	Area available for rehabilitation (ha) .	No Proposal	Nil	
6c	afforestation done (ha).	Proposed 0.25 hect in 2020-2021	Nil	
6d	No. of saplings planted during the year	625 saplings proposed in 7.5m safety barrier on for 2020-2021	No Saplings has been planted against the proposal.	Mine is non-working from 2012 for want of statutory clearance.
6e	Cumulative no .of plants	1875 nos of saplings proposed from during plan period 2018-2021 in 7.5m safety barrier	No Saplings has been planted against the proposal.	Mine is non-working from 2012 for want of statutory clearance.
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	No Proposal	Nil	
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	625 saplings proposed in 7.5m safety barrier on for 2020-2021	No Saplings has been planted against the proposal.	Mine is non-working from 2012 for want of statutory clearance.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Proposed 0.25 hect in 2020-2021	Nil	Mine is non-working from 2012 for want of statutory clearance.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	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.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Environment monitoring is carried out through private agency.	Mine is non-working from 2012 for want of statutory clearance.	

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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 59205 tons during 2020-2021.	No production has been achieved during this plan period.	Mine is non-working from 2012 for want of statutory clearance.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Process and Manual Picking of Ore from Intercalated Waste	Nil	Mine is non-working from 2012 for want of statutory clearance.

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7c	Different grade of mineral sorted out at mines.	ROM produced and supplied to parties +10mm to - 200mm.	Nil	Mine is non-working from 2012 for want of statutory clearance.
7d	Any beneficiation process at mines .	Manually sizing and sorting	Nil	Mine is non-working from 2012 for want of statutory clearance.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The total target of Production was 59205 tons during 2020-2021.	No production has been achieved during this plan period.	Mine is non-working from 2012 for want of statutory clearance.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Nil	
8b	Concurrent use or storage of topsoil	No Proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Generated OB/ Intercalated waste will be dumping in between Section line 1A-1A' on Northern side during 2020-2021	As per proposal the dumping is not carried out and in the proposed area.	Mine is non-working from 2012 for want of statutory clearance.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	

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)	1875 nos of saplings proposed from during plan period 2018-2021 in 7.5m safety barrier	No Saplings has planted as per proposal	Mine is non-working from 2012 for want of statutory clearance.
8g	Survival rate	No Proposal	Nil	
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Not Observed during inspection	Mine is non-working from 2012 for want of statutory clearance.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Agricultural land, Scanty vegetation, bushes are observed in lease area	Surrounding area beyond lease area is greenery and surrounded by forest land.	

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = March 2021 AR Submitted up to = Not Submitted for 2020-2021	Both Annual & Monthly returns are submitting in online system.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	Annual Return for the year 2019-2020 submitted and for the year 2020-2021 yet to submit.	Mine is non-working from 2012 for want of statutory clearance.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	Annual Return for the year 2019-2020 submitted and for the year 2020-2021 yet to submit.	Mine is non-working from 2012 for want of statutory clearance.

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9d	Scrutiny of Annual return on afforestation	Nil	Annual Return for the year 2019-2020 submitted and for the year 2020-2021 yet to submit.	Mine is non-working from 2012 for want of statutory clearance.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Annual Return for the year 2019-2020 submitted and for the year 2020-2021 yet to submit.	Mine is non-working from 2012 for want of statutory clearance.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Annual Return for the year 2019-2020 submitted and for the year 2020-2021 yet to submit.	Mine is non-working from 2012 for want of statutory clearance.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Annual Return for the year 2019-2020 submitted and for the year 2020-2021 yet to submit.	Mine is non-working from 2012 for want of statutory clearance.
9h	Scrutiny of Annual return on fixed assets	Nil	Annual Return for the year 2019-2020 submitted and for the year 2020-2021 yet to submit.	Mine is non-working from 2012 for want of statutory clearance.
9k	Scrutiny of Annual return on mining machineries	Nil	Annual Return for the year 2019-2020 submitted and for the year 2020-2021 yet to submit.	Mine is non-working from 2012 for want of statutory clearance.

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

**Date :**

**(G. S. KANNAN)**

Indian Bureau of Mines