

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/RGH/BX-18/NGP

Mine code : 07MSH12012

- (i) Name of the Inspecting : KQ2) Kalmata.M.K.
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : M.S.Raju, Qualified person.
Official with
Designation
- (iv) Date of Inspection : 13/07/2021
- (v) Prev.inspection date : 19/02/2020

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KARIVANE
- (b) Registration NO. : IBM/43004/2019
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : MAHARASHTRA
- District : RAIGAD
- Village : KARIVANE
- Taluka : SHRIWARDHAN
- Post office : SHRIWARDHAN
- Pin Code : 402110
- FAX No. : 022-22017621
- E-mail :
- Phone : 022-66651874
- (f) Police Station :
- (g) First opening date : 16/11/2018
- (h) Weekly day of rest :
2. Address for correspondence : House No-148, At- Arathi,
Post & Taluka- Shriwardhan,
District-Raigad, Maharashtra-402110
3. (a) Lease Number :
- (b) Lease area : 70.07 Ha
- (c) Period of lease : 50 years
- (d) Date of Expiry : 09.01.2067
4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : M/S NILESH MINES CORPORATION
WASHI DISTT:- THANE MUMBAI
THANA (THANE) MAHARASHTRA
Phone:
FAX :

Owner : HEMUL SHAH
Lawrence & Mayo House, 276
2nd Floor, D.N. Road, Fort
Mumbai MUMBAI (SUBURBAN)
MAHARASHTRA
Phone: 022-66651874
FAX : 022-22017621

6. Date of approval of Mining
Plan/Scheme of Mining

: RGH/Rx/MPLN-1032/N4P-2021
dated 23/08/2021.

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal was made in the year 2020-21.	In the year 2019-20, lessee has drilled 59 DTH bore holes to a depth of 7.00 to 9.5mtr.	In the approved mining plan there was a proposal to drill 15 exploratory holes and 22 trial pits, in the year 2016-17. However, lessee has drilled 59 DTH holes by Wagon drilling machine.
1b	Exploration over lease area for geological axis 1 or 2	Exploration was proposed for G-1 level in the first year (2016-17).	Lessee has drilled 59 DTH holes by wagon drill, so exploration is taken under G-2 level only.	Lessee has advised to explore entire mineralized area under G-1 level by Core holes/Trial pits. Accordingly lessee has given proposal for trial pits in the approved document dated 23.08.2021.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal was made.	DTH drilling is carried out by lessee himself. Expenditure incurred on exploration is about 2.00 lakhs.	Lessee has drilled 59 DTH holes with depth ranging from 7.00 to 9.5mtrs.
1d	Balance area to be explored to bring Geological axis in 1 or 2		55Ha under G-1 level.	In the approved Review of Mining Plan dated 23.08.2021, lessee has given proposal for exploring entire mineralized area under G-1 level, by 51 trial pits.

1e	Balance reserve as on 01/04/20	Reserves/resources as per the approved document dated 23/08/2021, Reserves (122) - 11,88,403 tonnes Resources (333) - 19,96,597 tonnes Total - 31,85,000 tonnes	Reserves/resource position as on 01.04.2021. Reserves (122) - 11,88,403 tonnes Resources (333) - 19,96,597 tonnes Total - 31,85,000 tonnes
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1f	General remarks of inspecting officers on geology, exploration etc	The conspicuous development of bauxite is observed in laterite capping at an altitude of 150 to 195m from the MSL. The outcrops of the bauxite varies from pale pinkish to greyish color. Lessee has drilled 59 DTH holes by wagon drill and depth of drill holes varies from 7.00 mtr to 9.5mtr. About 15.00 ha is explored under G-2 level. Further, in the approved document date 23.08.2021, lessee has given proposal to explore entire mineralized area under G-1, level.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	In the year 2020-21, there was a proposal to work b/w the co-ordinates, N 1990460 to N 1990520 & E 299620 to E 299840.	No working has been carried out during the year 2020-21, due to suspension of mining operation.	Due to lack of demand and local issues no working has been carried out b/w 2016-17 to 2019-20, except making of road in the year 2019-20. The mine was previously inspected by DCOM and mining operation is suspended on 05.10.2020, due to non compliance of violation of MCD Rules 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes proposed.	No working has been carried out in the previous plan period.	Due to lack of demand and local issues no working has been carried out b/w 2016-17 to 2019-20, except making of road in the year 2019-20. The mine is under suspension due to non compliance of MCD rules 2017.
2c	Stripping ratio or ore to OB ratio	1:0.17	Nil.	Due to lack of demand and local issues no working has been carried out in the previous plan period, except making of road in the year 2019-20. The mine is under suspension due to non compliance of MCD rules 2017.
2d	Quantity of topsoil generation in m3	Not propped.	Nil	

2e	Quantity of overburden generation in m3	17,647 in the year 2020-21.	Nil.	The mine is under suspension, so no mining has been carried out in the year 2020-21, however during making of road in the year 2019-20, about 750 tonnes of OB has been removed and same is stacked separately within the lease area.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Due to lack of demand and local issues no working has been carried out during the last plan period (2016-17 to 2020-21), except making of road from mine to loading point (Jetty).	

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One pit was proposed in the year 2020-21.	Nil.	The mine is not working due to suspension of mining operation.
3b	Quantity of ROM mineral production proposed	2,00,000 tonnes in the year 2020-21	Nil.	The mine is not working due to suspension of mining operation.
3c	Recovery of sailable/usable mineral from ROM production	100% from or zone and 40% in the OB zone.	Nil	The mine is not working due to suspension of mining operation.
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Not applicable.	Not applicable.	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized.	Nil	The mine is not working due to suspension of mining operation.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	Nil	
3j	Provision of drilling and blasting in mineral benches	Wagon drill 100mm with conventional blasting.	Nil	The mine is not working due to suspension of mining operation.
3k	Provision of mining machineries in mineral benches	Combination of excavator and tipper was proposed.	No mining has been carried out in the year 2020-21. and no machineries were observed on the day of inspection.	Lessee has used excavator, rock breaker and tippers for making road in the year 2019-20. The mine is not working from 05.10.2020, due to suspension of mining operation by IBM.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3 to 4 mtr bench height was proposed.	No benches were made during last plan period.	The mine was not working due to lack of demand, local issues and suspension of mining operation by IBM on 05.10.2020, so no benches were made during previous plan period.
3m	Total area covered under excavation/pits	11.7648 Ha, in Nil. the previous plan period(2016-17 to 2020-21)		The mine was not working due to lack of demand, local issues and suspension of mining operation by IBM on 05.10.2020, so no pits were made during previous plan period. However, 1.1ha area was excavated for road from mine to jetty.

3n	Ore to OB ratio for the pit/mine during the year.	1:0.17	Nil	The mine is not working due to suspension of mining operation by IBM.
3o	Total area put in use under different heads at the end of year	Mining-11.7648Ha, Infrastructure -0.011Ha, Roads-0.01Ha.	Mining-Nil, Roads-1.1Ha, dump-0.15Ha.	No excavation is carried out for production so, area under pit/mining is Nil, Lessee has made road from lease area to jetty covering an area of 1.1ha and waste and ore removed during road work is stored separately within the lea area.
3p	Production of ROM mineral during the last five year period as applicable	2020-21 2,00,000 T 2019-20 2,00,000 T 2018-19 2,00,000 T 2017-18 2,00,000 T 2016-17 2,00,000 T	2020-21 Nil 2019-20 1400 T 2018-19 Nil 2017-18 Nil 2016-17 Nil	Due to lack of demand and local issues mine was not worked during the previous plan period. In the year 2019-20, a road has been made from mine to jetty and aduring road work about 1400T ROM was removed and same is stored separately within the lease area. The mine is suspended by IBM on 05.10.2020, due to non compliance of violation of MCD Rules 2017.
3q	General remarks of inspecting officers on method of mining etc.		Due to lack of demand and local issues mine was not worked during the previous plan period. In the year 2019-20, a road has been made from mine to jetty and aduring road work about 1400T ROM was removed and same is stored separately within the lease area. The mine is suspended by IBM on 05.10.2020, due to non compliance of violation of MCD Rules 2017.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate duming was proposed for ore and OB	Yes, separate dumps are available for ore and waste.	The ROM and waste rock removed during road work is stored separately.
4b	Location of topsoil, OB and mineral reject dumps	Location of waste dump-N 1990815 to N 1990860 and E 299620 to E 299700.	Waste dump was made b/w the co-ordinates N 1990360 to N 1990410 and E 299510 to E 299535. and ROM was stocked b/w the co-ordinates N 1990370 to N 1990425 & E 299440 to E 299495	No working has been carried out during the the last plan period. However, in the year 2019-20 a road has been made from mine to jetty and waste and ore removed during roadwork is stored separately. The waste will be utilized for backfilling of mineral exhausted pits in future. The mine is not working due to suspension of mining operation by IBM due to non compliance of violation of MCD Rules 2017.
4c	Number of dumps within lease area and outside of lease area	Two	Two	Two dumps are existing within the lease area, one waste dump and one mineral dump.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within the UPL	Dumps are existing within the lease area.	Dunps are temporary, the waste dump will be utilized for backfilling of the mineral exhausted pits.
4e	Number of active and alive dumps.	Two	Two	
4f	Number of dead dumps.	Not proposed.	Nil.	
4g	Number of dumps established.	Not proposed.	Nil	

4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining walls proposed along the toe of the waste dump.	Nil.	The mine is not worked during the last plan period except making of road from mine to jetty, so generation of waste was very less. so lessee has not made any retaining wall during last plan period.
4i	Length of Retaining wall or garland drain all along dumps	25 to 30mtr /year.	Nil	The mine is not worked during the last plan period except making of road from mine to jetty, so generation of waste was very less. so lessee has not made any retaining wall during last plan period.
4j	Number of settling ponds	Four during the last plan period.	Nil	Due to lack of demand and local issues the mine was not working during last plan period, so no settling ponds were made as per the proposal. Further, the mining operation is suspended by IBM on 05.10.2020 for non compliance of violation of MCD Rules 2017.

4k	Specific comments of inspecting officer on waste dump management	The mine is not worked during the last plan period except making of road form mine to jetty, so generation of waste was very less and same is dumped within the lease area. since the size of the dump is very small and quantity available in the waste dump will be utilized for backfilling of exhausted pits in near future no retaining walls were made along the toe of the dump.
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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.	There was a proposal for backfilling after full extraction of ore.	No working has been carried out during he last plan period.	Due to lack of demand and local issues, the mine was not worked during the last plan period, so no backfilling was made.
5b	Area under backfilling of mined out area	Total 1.77Ha was proposed for backfilling during the previous plan period. (2016-17 to 2020-21)	Nil.	The mine was not working due to lack of demand and local issues, so no backfilling was made during the last plan period. The mine is under suspension from 05.10.2020 onwards due to non compliance of violation of MCD Rules 2017.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	Nil	

5d	Total area fully reclaimed and rehabilitated	About 1.77ha was proposed for bacfilling.	Nil	The mine was not working due to lack of demand and local issues, so no backfilling was made during the last plan period. The mine is under suspension from 05.10.2020 onwards due to non compliance of violation of MCD Rules 2017.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The mine was not working due to lack of demand and local issues, so no backfilling was made during the last plan period. The mine is under suspension from 05.10.2020 onwards due to non compliance of violation of MCD Rules 2017.

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).	Before 1st July of every year.	The mine is under suspension so, lessee has not submitted report on PMCP for the year 2020-21.	Lessee was not submitted PMCP report for previous year also. The mine was previously inspected by DCOM and violation and showcause was issued for the same. The mine is under suspension due to non compliance of MCD Rules-2017.
6b	Area available for rehabilitation (ha) .	About 1.77 ha was proposed for backfilling in the previous plan period (2016-17 to 2020-21)	Nil.	The mine was not working due to lack of demand and local issues, so no area was matured for backfilling.

6c	afforestation done (ha).	Total, 3.77Ha was proposed for afforestation during the previous plan period (1.77ha on backfilled area + 2.00ha safety barrier)	Nil.	The mine was not worked during the last plan period, except making of road, so no backfilling was made during the last plan period. However lessee has not made any plantation in the safety barrier also so violation was issued by the DCOM for the same during his previous inspection. The mine is under suspension for non compliance of violation of MCD Rules 2017.
6d	No. of saplings planted during the year	Total 5600 saplings were proposed during the last plan period.	Nil	The mine was not worked during the last plan period, except making of road, so no backfilling was made during the last plan period. However lessee has not made any plantation in the safety barrier also so violation was issued by the DCOM for the same during his previous inspection. The mine is under suspension for non compliance of violation of MCD Rules 2017.
6e	Cumulative no .of plants	5600	Nil	
6f	Any other method of rehabilitation	No such proposal was given.	Nil	
6g	Cost incurred on watch and care during the year	12,000/year.	Nil	No plantation was made during the last plan period.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	There was a proposal to backfill about 0.59 Ha area (295 m(L) x 20m(w) x 4m(h) in the year 2020-21.	Nil	Total 1.77Ha was proposed for backfilling during the last plan period (885m(L) x 20m(w) x 4m(h). Due to lack of demand and local issues the working has been not carried out during the last plan period.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	About 1,41.176 tones of waste was proposed for backfilling during the previous plan period (2016-17 to 2020-21).	Nil.	Due to lack of demand and local issues the working has been not carried out during the last plan period. So no backfilling was made during the last plan period.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	1.77ha, backfilled area was p[roposed for plantation.	Nil	Due to lack of demand and local issues the working has been not carried out during the last plan period. So no backfilling was carried out during the last plan period.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed.	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed.	Nil	

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Afforestation Nil was proposed in the safety barrier.	Nil	The mine was previously inspected by DCOM and violation was pointed out for the same. The mine is under suspension for non compliance of violation of MCD Rules 2017.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed.	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed.	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed monitoring of Air, Water, Noise in the core and buffer zone.	Nil	The mine is under suspension for non compliance of MCD Rules-2017, so no environmental monitoring was carried out during last plan period.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Due to lack of demand and suspension of the mining operation by IBM, the working has been not carried out as per the proposal in the last plan period. So entire mineral was not removed from the area which was proposed for backfilling. So no backfilling and plantation on the backfilled area was carried out during last plan period(2016-17 to 2020-21). Lessee has not carried out environmental monitoring and not submitted yearly report on PMCP so far.	The mine was previously inspected by the DCOM and violation was issued for the same. The mine is under suspension due to noncompliance of MCD Rules-2017.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Both ROM dispatch and gradewise sorting.	No dispatch has been made during the last plan period.	Due to lack of demand no dispatch has been made during the last plan period and entire ROM removed is stacked separately within the lease area.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Nil.	Due to lack of demand no dispatch has been made during the last plan period and entire ROM removed is stacked separately within the lease area.
7c	Different grade of mineral sorted out at mines.	No such proposals were given.	Nil.	
7d	Any beneficiation process at mines	Only Crushing and screening (dry) was proposed.	Nil.	Due to lack of demand no crushing and screening was carried out during the last plan period.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Due to lack of demand no beneficiation was carried out during the last plan period and entire ROM removed is stacked separately within the lease area.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal was given for removal of top soil.	Nil.	
8b	Concurrent use or storage of topsoil	Not proposed.	Nil.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping was proposed for waste & Mineral.	Duming was made separately for, Mineral & Waste.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste rock was generated and proposed for backfilling of the mineral exhausted pit.	During the last plan period entire mineral was not removed from the area where backfilling was proposed, so no backfilling was made during last plan period.	The mine was not worked during the last plan period except making of road from mine to jetty. The waste rock generated during road work is stored within the lease area and some will be utilized for backfilling of the exhausted pit in the near future.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed backfilling of worked out pits and plantation on backfilled area.	No backfilling was carried out during last plan period.	Entire mineral was not removed from the area which was proposed for backfilling.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Total 5600 saplings were proposed during the last plan period on the backfiled area and in 7.5mtr safety zone.	Nil.	No backfilling was carried out during last plan period, so no plantation was made as per the proposal. The mine was previously inspected by DCOM and violation was pointed out for the same.
8g	Survival rate	Not proposed.	Nil.	No plantation was made during the last plan period. The mine was previously inspected by DCOM and violation was pointed out for the same.
8h	Water sprinkling on roads to control airborne dust		The mining operation is under suspension due to non compliance of MCD Rules 2017. However, lessee is using water tanker for dust suppression whenever necessary.	

8i General remarks of inspecting officer on aesthetic beauty in and around mines area

The mine is not working due to lack of demand and local issues. No working has been carried out during the last plan period except making road from mine to jetty. The lease area is flat plateau. Bushes and grasses are seen along the slope.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	A monthly return shall be submitted before the tenth day of every month in respect of the preceding month and an annual return shall be submitted before the 1st day of July each year for the preceding financial year.	Lessee is regularly submitting monthly and annual returns within the time limit.	Submitted monthly returns upto June-2021 and Annual returns for the year 2020-21.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer:- Shri Sujit Dutta and Geologist- Nil.	Lessee has not appointed geologist.	The mine was previously inspected by DCOM and violation was pointed out for the same under Rule 55 of MCDR 2017.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under current working- 0.040Ha, Waste disposal 0.01Ha, Infrastructure -0.1Ha.	Area under Road:-1.1Ha, Dumps-0.15Ha	In the annual returns excavation made for making road was shown under current working and lessee has advised to correct the same .

9d	Scrutiny of Annual return on afforestation	Nil	No plantation wa made during the last plan period.	The mine was previously inspected by DCOM and violation was pointed out for the same. The mine is under suspension for non compliance of MCD Rules 2017.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not proposed.	Nil	The ROM removed during last plan period is stacked separately due to lack of demand and gradewise sorting was not done.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1400Tonnes ROM	The details given in the annual returns is found correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	The mine is under suspension, and no production and dispatch, has been carried out in the year 2020-21.
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset is shown as zero in the annual returns submitted for the year 2020-21.	All the equipments are on hired basis, so ,value of fixed asset is zero.	
9k	Scrutiny of Annual return on mining machineries	Nil	Nil	The mine is under suspension and no machineries were observed on the day of inspection.

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

Date :

(Kalmata.M.K.)

Indian Bureau of Mines