

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/YTL/LST-19/NGP

Mine code : 38MSH26022

- (i) Name of the Inspecting : **K02**) **Kalmata.M.K.**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Lessee Shri A.N.Warwatkar
Official with
Designation
- (iv) Date of Inspection : 27/01/2021
- (v) Prev.inspection date : 05/09/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **WANJRI (105,107,108&111)**
- (b) **Registration NO.** : **IBM/5319/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MAHARASHTRA
District : YEOTMAL
Village : WANJRI
Taluka : WANI
Post office : RAJUR
Pin Code : 445309
FAX No. : N.A.
E-mail : N.A.
Phone : 09822722224
- (f) Police Station : RAJULA
- (g) First opening date : 17/10/1966
- (h) Weekly day of rest : SUN
2. Address for : POST-RAJULA
correspondance : TAL-WANI
DISTT.-YEOTMAL
3. (a) Lease Number : MSH0020
- (b) Lease area : 11.89
- (c) Period of lease : 50
- (d) Date of Expiry : 16/10/2026
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : SHRI A.N.WARWATKAR
 JAGNATH BUDHAWARI NAGPUR
 NAGPUR MAHARASHTRA
 Phone:
 FAX :

Owner : Shri A.N.Warwatkar
 Ward No.64, Jagnath
 Budhwari,Itwari Nagpur (MS)
 NAGPUR MAHARASHTRA
 Phone:
 FAX :

Mining Engineer
 Name : SHRI A.N. RAJURKAR,Full Time
 Qualification : BE(MINING)
 Appointment/ : 20/09/1999
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	23/07/2004
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	10/05/2007
	:	Mining Scheme rule 12 MCDR1988	22/07/2013
	:	MP modif under 17(3) MCR 2016	15/11/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals for the year 2019-20. However, there was a proposal to drill two core boreholes in the year 2018-19.	Lessee has drilled six core boreholes in the year 2020-21.	Lessee has sent intimation in Form I to this office on 22.07.2020.
1b	Exploration over lease area for geological axis 1 or 2	Proposal was given in the year 2018-19 for G-1 level.	About 8.00 Ha is explored under G-1 level & 2.00 Ha under G-2 level.	Total lease area is 11.89 ha, out of which 8.00Ha is explored under G-1 level , 2.00Ha under G-2 level and remaining 1.89Ha is unexplored area.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal was given in the mining plan.	Exploration was carried out by the lessee himself, and total expenditure incurred on exploration, is Rs- four lakh twenty five thousand.	Lessee has drilled 06 core holes (Total depth 170 mtr) in the year 2020-21.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Proposal was made under G-1 level.	About 8.00Ha area is explored under G-1 and 2.00 Ha under G-2 level.	Total lease area is 11.89 ha, out of which 8.00Ha is explored under G-1 level , 2.00Ha under G-2 level and remaining 1.89Ha is unexplored area. Lessee has advised to explore entire mineralized area under G-1 level, as per Rule 12(3) of MCDR-2017.

1e	Balance reserve as on 01/04/20	Reserves as per approved document dated 15.11.2017 is as follows:- Probable M Reserves (122) - 35,75,095 tonnes. Prefeasibility M Resources (222) - 10,29,325 tonnes.	Reserves/resources as on 01.04.2020. Probable M Reserves (122) - 35,59, 555 tonnes. Prefeasibility M Resources (222) - 10,29,325 tonnes Total - 45,88, 880 tonnes	Lessee has drilled 06 boreholes in the year 2020-21 & estimation of incremental increase in reserves/resources based on exploration data is not submitted to this office so far. Lessee has advised to submit updated reserves/resources estimation status to this office at the earliest.
1f	General remarks of inspecting officers on geology, exploration etc		Limestone available in the lease area is of cement grade & Cao % Varies from 42.00 to 46.00. Total lease area is 11.89Ha, out of which only 8.00Ha is explored under G-1 level and 2.00ha under G-2 level and remaining 1.89 ha is unexplored. Lessee has advised to explore entire mineralized area under G-1 level as per Rule 12(3) of MCDR-2017.	In the present plan period lessee has drilled 06 core holes, against the proposal of two.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No development was proposed in the present plan period. However, working for production was proposed between the co-ordinates, N-00 to N-95 & E-00 to W-120.	In the year 2019-20, working has been carried out between the co-ordinates, N-10 to N-20 and W-50 to W-100.	Working has been carried out within the proposed area.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	In the year 2019-20, benches were proposed in ore only.	Benches were made in ore only. (4 benches were made in pit no-1, 2 benches in pit no-2, and 01 bench each from Pit No-3,4 & 5.)	In present plan period, working was proposed in the already brokenup area only, and generation of topsoil and OB was shown as nil.
2c	Stripping ratio or ore to OB ratio	In the approved document Ore to OB ratio is shown as 1:0.10	Nil.	Generation of OB/waste rock (below threshold value) is nil in the year 2019-20. In the approved document generation of OB/waste is shown as nil, but ore to OB ratio is estimated against the generation of Mineral reject which is incorrect. Since the mineral reject is part of ROM, it can not be considered for calculating Ore to OB ratio & proposed Ore to OB ratio will be zero only. Lessee has advised to correct the same in upcoming documents.
2d	Quantity of topsoil generation in m3	Nil	Nil	Working was proposed and carried out in the already broken up area only, so no topsoil is generated in the present plan period.
2e	Quantity of overburden generation in m3	Nil	Nil	No OB generation was proposed and achieved, in the present plan period.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The mine is working manually and bench parameters were maintained almost as per the proposal. Present working is going on within the proposed area.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Only one pit was proposed for production. Dimesion of the proposed pit in the year 2019-20 was, 135m(L) x 25m(w)	Lessee has worked in one pit during 2019-20. Dimension of the pit is 50m(L) x 10m(w). Due to low demand for ore, only 2099 tonnes of ore is produced against the proposed 24,375 T in the year 2019-20, so pit dimesion is less compare to proposed area.	Total five pits were existing within the lease area and dimension of each pit is as follows. Pit no-1- 230m(L) x 135m(w) x 10m(d) , Pit No-2- 140m(L) x 125m (w) x 9m(d) , PitNo-3- 40m(L) x (25m(w) x 3m(d), Pit no-4- 100m(L) x 35m(w) x 2m(d) , pit no-5- 105m(L) x 30m(w) x 2m(d).
3b	Quantity of ROM mineral production proposed	24,375 tonnes in the year 2019-20.	2099 tonnees, in the year 2019-20.	Due to low demend for ore , production was not carried out as per the proposal.
3c	Recovery of sailable/usable mineral from ROM production	90%	100%	Entire ROM produced in the year 2019-20 was saleable.
3d	Quantity of mineral reject generation	2438 tonnes	Nil	No mineral reject was generated, in the year 2019-20. Entire ROM removed was sorted under Cement garde sold.
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	No mineral reject was generated in the year 2019-20.	Threshold value declared for Limestone is Cao % 34 and above. The ROM produced during the year 2019-20 is above threshold limit and entire quantity was saleable grade.

3f	Quantity of sub grade mineral generation.	No sub grade mineral generation was proposed.	Nil	Entire ROM produced was sorted under cement garde and sold.
3g	Grade of sub grade mineral generation	Not applicable	Not applicable.	No sub grade mineral is generated.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil	No mineral reject/subgrade is generated in the present plan period.
3j	Provision of drilling and blasting in mineral benches	Proposed Jackhammer drilling & 32mm dia slurry explosive cartirage.	Drilling and blasting is carried out as per the proposal.	Lessee is following drilling pattern 1.0m x 1.0m x 3m (Spacing x Burden x depth)
3k	Provision of mining machineries in mineral benches	The Proposed method of mining is manual, and no machineries were proposed for mining activity.	The mine is working manually, and no machineries were used except air compressor.	Lessee is using air compressor and jack hammer, for drilling holes to carry out blasing as per the proposal.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed 3.00 mtr bench height in ore & No OB and mineral reject benches were proposed in the present plan period.	Lessee has maintained the bench height as per the proposal.	Lessee has maintained 3.00 to 4.00 mtr bench height which is suitable for manual method of mining.
3m	Total area covered under excavation/pits	0.325Ha was proposed in the year 2019-20.	Actual excavated area in the year 2019-20 is 0.05 Ha	Since the production was very less, due to lack of demend, area covered under excavation in the year 2019-20, is less. Total area covered under excavation is 6.00Ha.

3n	Ore to OB ratio for the pit/mine during the year.	1:0.10	Nil	Generation of OB/waste rock (below threshold value) is nil in the year 2019-20. In the approved document generation of OB/waste is shown as nil, but ore to OB ratio is estimated against the generation of Mineral reject which is incorrect. Since the mineral reject is part of ROM, it can not be considered for calculating Ore to OB ratio & proposed Ore to OB ratio will be zero only. Lessee has advised to correct the same in upcoming documents.
3o	Total area put in use under different heads at the end of year	In the approved document area proposed to put in use under different heads is as follows:- Area under excavation- 6.00Ha, Waste dump-0.4Ha, Infrastructure & roads-0.22	Area under excavation- 6.00 Ha, Waste-0.4Ha, Infrastructure & Roads- 0.22ha.	No waste rock/OB is generated in the present plan period. However, the waste generated earlier was utilized for making bunds along the 7.5 mtr safety zone and total area covered under bunds is 0.4Ha.
3p	Production of ROM mineral during the last five year period as applicable	2020-21 25312 tonne 2019-20 24375 tonnes 2018-19 24375 tonnes 2017-18 11250 tonnes 2016-17 56250 tonnes	2020-21 2133 tonnes (up to Dec-2020) 2019-20 2099 tonnes 2018-19 7544 tonnes 2017-18 5897 tonnes 2016-17 4218 tonnes	

3q	General remarks of inspecting officers on method of mining etc.	The mine is working manually and bench parameteres were maintained as per the proposal. Due to low demand for the ore, only 20.71% production is achieved against the total proposal in the present plan period (2017-18 to 2020-21 (upto Dec-20)).
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dumping was proposed for mineral reject only.	No dumping was made in the present plan period, and Entire ROM produced in the present plan period is saleable.	No waste dump is existing in the lease area. The waste generated earlier is utilized for making bunds along the 7.5 mtr safety zone.
4b	Location of topsoil, OB and mineral reject dumps	Only mineral reject dump was proposed & location of proposed dump is N-00 to N-70 & E-25 to E-60.	No mineral reject dump was made in the present plan period.	The entire ROM produced in the present plan period was saleable, so no mineral reject dump was made. Further, generation of topsoil & OB was not proposed, in the present plan period. The OB/Waste rock generated duing earlier plan period, was utilized for making bunds along the 7.5 mtr safety zone.
4c	Number of dumps within lease area and outside of lease area	Only mineral reject dump was proposed in the present plan period.	No mineral reject was generated in the present plan period and no dumping was made.	The waste rock(below threshold value) generated earlier was utilized for making bunds along the 7.5 mtr safety zone.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Only mineral reject dump, was proposed in the present plan period , and it was within UPL.	No mineral reject dumping was made in the present plan period.	No dumps were made within the UPL. The waste generated earlier was utilized for making bunds in the 7.5 mtr safety zone.
4e	Number of active and alive dumps.	Only mineral reject dump was proposed.	Nil. No mineral reject was generated in the present plan period.	Waste generated ealier, is utilized for making bunds along the 7.5 mt safety zone.
4f	Number of dead dumps.	Not proposed.	No dead dumps were available in the lease area.	
4g	Number of dumps established.	Not proposed.	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed.	Nil	No dumps were existing within the lease area, so lessee has not proposed and made retaining wall or graland drains in the lease area.
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management		No waste rock (below threshold value) or mineral reject is generated, in the present plan period. So no dumping was made in the present plan period. However, the waste removed earlier was utilized for making bunds in the 7.5mtr safety zone.	

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.	No backfilling was proposed in the the year 2019-20.	Nil.	Mineral is not extracted upto the proved depth, so no backfilling is proposed in the present plan period.
5b	Area under backfilling of mined out area	Not proposed.	Nil	No area is matured for backfilling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	Nil.	In the present plan period working was proposed in the already brokenup area only, so no topsoil is generated in the present plan period. The topsoil removed during previous plan periods was utilized for plantation work within the lease area.
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Nil.	The mineral is not extracted up to the proved depth, and no area is available for reclamation and rehabilitation, in the present plan period.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The mineral is not extracted up to the proved depth. No area is matured for backfilling and reclamation in the present plan period.

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.	Lessee has submitted the yearly report on PMCP for the year 2019-20 on may 2020.	Lessee has submitted PMCP report within the time limit.

6b	Area available for rehabilitation (ha) .	Not proposed	Nil.	
6c	afforestation done (ha).	0.0375 ha in the present plan period.	0.028 Ha in the year 2019-20.	Total area covered under plantation in the present plan period is 0.1Ha.
6d	No. of saplings planted during the year	20 saplings were proposed in the year 2019-20.	70 saplings were planted in the year 2019-20.	Total 320 saplings were planted, in the present plan period (2017-18 to 2019-20).
6e	Cumulative no .of plants	60 saplings in the present plan period up to 2019-20. (2017-18 to 2019-20)	Total saplings planted in the present plan period upto 2019-20 is 320.	Plantation was made near the office premises, and some part of 7.5 mtr safety zone between BP-01 and BP-02.
6f	Any other method of rehabilitation	Not proposed.	Nil	
6g	Cost incurred on watch and care during the year	Rs-3200.	Approximately Rs-2500.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	Nil	No backfilling is proposed in the present plan period.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Nil	No backfilling is proposed in the present plan period.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not proposed.	Nil	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed.	Nil	No area is matured for reclamation & rehabilitation in the present plan period.
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	Not proposed.	Nil	
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 environmental monitoring in core & buffer zone.	The mine is working manually and production carried out in the year 2019-20 is only 2099 tonnes. So impact of mining on environment is negligible.	Since the mine is working manually and production is also very less, lessee has not carried out environmental monitoring in the year 2018-19.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	In the present plan period proposal was given for only plantation in the 7.5 mtr safety zone and lessee has made plantation more than the proposal. Since the production is very less, lessee has not carried out environmental monitoring in the year 2019-20. Lessee has advised to carry out the enviromental monitoring once production is increased.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within the lease area.	AS per the proposal.	Lessee has sorted ROM under cement grade and dispatched.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Only cement grade.	Only cement grade.	
7d	Any beneficiation process at mines	Not proposed.	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		The entire ROM generated in the present plan period was saleable. So no issues were noticed regarding mineral conservation and beneficiation.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil generation was proposed in the present plan period.	No topsoil was removed in the present plan period.	In the present plan period, working has been proposed in the already broken up area only, so no topsoil was removed. However, the topsoil removed during earlier was utilized for plantation work within the lease area.
8b	Concurrent use or storage of topsoil	Not proposed.	Nil.	Topsoil removed earlier was utilized for plantation within the lease area.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only mineral reject dump was proposed in the present plan period.	No mineral reject dump has been formed in the present plan period.	Entire ROM removed in the present plan period is saleable.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	Nil.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Nil	No inactive benches and dumps were available for phased restoration, reclamation & rehabilitation in the present plan period.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed 20 plantation in the year 2019-20.	Lessee has made 70 plantation in the year 2019-20.	Total plantation made in the present plan period is 320.
8g	Survival rate	Not proposed.	60%.	lessee has advised to take care of the plantation by regular monitoring.

8h	Water sprinkling on roads to control airborne dust	The mine is working manually and generation of dust is negligible. However lessee is using water tanker for dust suppression during transportation period.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	About 6.00 ha is covered by excavation and benches were almost maintained as per the proposal. No dumps were existing within the lease area and entire waste removed is utilized for making bunds in the 7.5 mtr safety zone. Plantation was made near the office area and in 7.5 mtr safety zone. Lessee has advised to make plantation in the 7.5 mtr safety zone.

Compliance of Rule 45:

Sl.No.	Item	Proposals	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.	Submitted monthly returns upto Dec-2020 and Annual returns for the year 2019-20.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	In the annual returns submitted for the year 2019-20, Name of the mining Engineer is mentioned as G.M.Gedam and no geologist was shown.	Lessee has appointed Shri V.K.Misar as a part geologist . Further, Sh.G.M.Gedam is appointed as a Mining Engineer who is possessing Diploma in Mining, which is not qualifying as prescribed in the Rule.	Submitted notice of appointment of Part time Geologist in form H to this office on 08.02.2021. Further, Sh.G.M.Gedam is appointed as a Mining Engineer who is possessing Diploma in Mining, which is not qualifying as prescribed in the Rule. Violation is pointed out for the same under Rule 55(6) of MCDR-2017.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under current working- 6.00Ha, waste disposal- 0.4Ha, Infrastructure -0.22Ha.	Details of land use pattern given in the annual returns submitted for the year 2019-20 is found correct.	
9d	Scrutiny of Annual return on afforestation	In the annual returns submitted for the year 2019-20, it is mentioned that 70 saplings were planted inside the lease area.	Information given on plantation was found correct.	Plantation was made near the mine office area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject wa shown in the annual returns submitted for the year 2019-20.	No minerral reject was generated in the year 2019-20.	Entire ROM removed in the year 2019-20, is saleable and shown aunder cement grade.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM- Production 2099.305 tonnes and Opening & closing stock -0	Information furnished in the annual returns is found correct.	
		Gradewise :- Entire ROM produced is shown under Cement grade. Opening stock- 75.920 T, Production- 2099.305T, dispatch- 2113.455T & Closing stock- 61.77T.		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value & Exmine price is shown Rs- 450/T & Cost of production Rs-400/Tonne.	The information given on sale value & Exmine price is found correct.	The cost of production is more due to less production. Lessee has produced only 2099 T in the year 2019-20.
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset is shown Rs-1,0,2000	Under fixed value of asset land value is shown Rs-1,02,000 only. Total lease area is 11.89Ha and entire land is private and belongs to lessee only. So lessee has advised to give the land value as per the current market rate fixed by concerned govt department.	
9k	Scrutiny of Annual return on mining machineries	No machineries were shown in the annual returns submitted for the yer 2019-20.	No machineries were obserevd during fild visit.	The mine is working manually.

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
MCDR17 Rule 55(1)(3)	12/03/2021				

Date :

(Kalmata.M.K.)

Indian Bureau of Mines