

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/CND/LST-18/NGP

Mine code : 38MSH08018

- (i) Name of the Inspecting : **204**) **SNEHANKIT H. CHATTE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri. Kulkarni, Head(M)
Official with
Designation
- (iv) Date of Inspection : 18-Aug-23
- (v) Prev.inspection date : 02-Dec-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NARANDA**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MAHARASHTRA
District : CHANDRAPUR
Village : NARANDA
Taluka : KORPANA
Post office : NARANDA
Pin Code : 442916
FAX No. : 7173 - 246001
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 01-Sep-89
- (h) Weekly day of rest : WED
2. Address for : C/O KCT COMPLEX
correspondance : GADCHANDUR, TAH : KORPANA
DISTT. GADCHANDUR
3. (a) Lease Number : MSH0035
(b) Lease area : 71.01
(c) Period of lease : 50
(d) Date of Expiry : 06-Apr-36
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : M/S MURLI INDUSTRIES LTD.
RADHA NIWAS, 239, EAST
WARDHMAN NAGAR NAGPUR
NAGPUR MAHARASHTRA
Phone:
FAX :

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	11-Oct-05
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	04-Nov-08
	:	Modif.of approved Mining Plan	12-Oct-10
	:	Mining Scheme rule 12 MCDR1988	12-Oct-10

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	ok.
1b	Exploration over lease area for geological axis 1 or 2	During yr 2022-23= NIL proposal	during yr 2022-23=04 Nos of BHs were drilled.	as per Review of Mining plan was approved on 28.07.2021 drilling of 23 Nos of BHs.were proposed during the yr 2021-22. Entire mineralized area has been explored under G1 by drilling 23 nos of boreholes during the year 2021-22 & 4 bore holes were drilled during the year 2022-23
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Rs. 402782 Approx for 4 nos. of Bore holes	as per Review of Mining plan was approved on 28.07.2021 drilling of 23 Nos of BHs.were proposed during the yr 2021-22. Entire mineralized area has been explored under G1 by drilling 23 nos of boreholes during the year 2021-22 & 4 bore holes were drilled during the year 2022-23

1d	Balance area to be explored to bring Geological axis in 1 or 2	during year 2022-23=nil	Entire mineralized area has been explored under G1 .	as per Review of Mining plan was approved on 28.07.2021 drilling of 23 Nos of BHs.were proposed during the yr 2021-22. Entire mineralized area has been explored under G1 by drilling 23 nos of boreholes during the year 2021-22 & 4 bore holes were drilled during the year 2022-23
1e	Balance reserve as on 01/04/20	as on july 2021 111 = 10.09 Mil T 122= 1.63 Mil T Remaining Resources (221, 222, 333)=10.83 Mil T	Reserves as on 01.07.2023 Reserves= 15.67 Mill Ton Resources= 7.81 Mill Ton	as per Review of Mining plan was approved on 28.07.2021 drilling of 23 Nos of BHs.were proposed during the yr 2021-22. Entire mineralized area has been explored under G1 by drilling 23 nos of boreholes during the year 2021-22 & 4 bore holes were drilled during the year 2022-23 & 06 boreholes in yr 2023-24 hence reserves/ resorces have been upgraded & the same were furnished in the Mod. Mining Plan approved by Nagpur Regional Office on 10.11.2023

1f	General remarks of inspecting officers on geology, exploration etc	nil	nil	as per Review of Mining plan was approved on 28.07.2021 drilling of 23 Nos of BHs.were proposed during the yr 2021-22. Entire mineralized area has been explored under G1 by drilling 23 nos of boreholes during the year 2021-22 & 4 bore holes were drilled during the year 2022-23 & 06 boreholes in yr 2023-24 hence reserves/ resorces have been upgraded & the same were furnished in the Mod. Mining Plan approved by Nagpur Regional Office on 10.11.2023
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2189025N to 2189380N, 296370E to 296960E 213mRL / 200mRL	As proposed but lagging in ROM	nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	benches proposed Topsoil=nil OB=02 Mineral=03	As proposed but lagging in ROM	nil
2c	Stripping ratio or ore to OB ratio	1:0.82	1:0.47	nil

2d	Quantity of topsoil generation in m3	Nil	nil	nil
2e	Quantity of overburden generation in m3	493820m3	192832 m3	nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	nil
3b	Quantity of ROM mineral production proposed	15,00,437 T	10,38,211.97 T	Lagging in ROM dueto market demad & frequent breakdown/ stoppage of linked cement plant
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Lagging in ROM dueto market demad & frequent breakdown/ stoppage of linked cement plant
3d	Quantity of mineral reject generation	Nil	Nil	No mineral reject generation proposed.
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	No reject generation.
3f	Quantity of sub grade mineral generation.	Nil	Nil	ok.
3g	Grade of sub grade mineral generation	Nil	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.	nil	nil	nil
3j	Provision of drilling and blasting in mineral benches	Yes, 110 mm dia wagon drill with slurry explosive detonation by NONEL	As proposed	nil
3k	Provision of mining machineries in mineral benches	Yes, Shovel with Tipper/dumper, water tank, pump, wheel loader, dozer	as proposed	nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, Height of 5m in Both working benches and Benches in OB proposed.	as proposed.	nil
3m	Total area covered under excavation/pits	pit=27.62 Hect proposed in Plan period from 2021-22 to 2024-25	pit= 23.28 hect as on 31.03.2023	deviation dueto market demad & frequent breakdown/ stoppage of linked cement plant
3n	Ore to OB ratio for the pit/mine during the year.	1:0.82	1:0.46	production was not achieved dueto market demad & frequent breakdown/ stoppage of linked cement plant
3o	Total area put in use under different heads at the end of year	proposal given for period 2022-23 to 2024-25 pit=27.62 hect waste=11.77 hect infra= 8.31hect roads=0.85 ha	land use as on 31.03.2023 is:- pit= 23.28 ha waste/ob=5.25 ha infra=10.98 ha roads=1.65	land use updated by mod. mining plan approved on 10.11.2023

3p	Production of ROM mineral during the last five year period as applicable	year 2018-19= Lapsed period 2019-20= Lapsed period 2020-21=lapsed period 2021-22= 11.00 Mil T 2022-23= 15.00 Mil T 2023-24 =26.61 Mil T	year 2018-19= Lapsed period 2019-20= Lapsed period 2020-21=lapsed period 2021-22= 0.314 Mil T 2022-23= 1.038 Mil T 2023-24 (up to July 2023)=0.559543 Mil T	during 1st 3 year the mining was not carried out due to the Matter was under NCLT, after issuance of NCLT order dt 22.07.2019, the state govt granted permission of mining to the lessee. further due to market demad with frequent breakdown/ stoppage of linked cement plant mine not worked at full extent therefore the mine has not achived the targeted production
3q	General remarks of inspecting officers on method of mining etc.	Deephole drilling & blasting with HEMM	as proposed	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, Topsoil= no proposal OB= 02 nos of dumps 295400E to 2190200N and 295800E to 2189800N Mineral Reject= No proposal	as proposed but lagging in OB generation.	nil

4b	Location of topsoil, OB and mineral reject dumps	Top soil no as per proposal proposal OB Dump A 295400E to 2190200N and 295800E to 2189800N.		nil
4c	Number of dumps within lease area and outside of lease area	Within Lease area :- 02 no. Dump A & B, Outside Lease area:- Existing Old Dump.	Within Lease area :- 02 no. Dump A & B, Outside Lease area:- Existing Old Dump	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB Dump A 295400E to 2190200N and 295800E to 2189800N from 210 to 230mRL. Ultimate Pit Limit of 165mRL.	as per proposal	NIL
4e	Number of active and alive dumps.	Dump A & B (2 Nos)	as per proposal	NIL
4f	Number of dead dumps.	NIL	NIL	dead dump 01 Outside lease area
4g	Number of dumps established.	nil	nil	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed as per dimension 2.5 X 2.0m	as proposed	nil
4i	Length of Retaining wall or garland drain all along dumps	750m	completed	nil
4j	Number of settling ponds	1No	1No	nil

4k	Specific comments of inspecting officer on waste dump management	nil	nil	There are 2 dumps proposed & active in the lease dump A & B, located at OB Dump A 295400E to 2190200N and 295800E to 2189800N from 210 to 230mRL. Ultimate Pit Limit of 165mRL.
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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 proposal	nil	Mine is in Progressive stage.
5b	Area under backfilling of mined out area	Nil	Nil	Mine is in Progressive stage.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil, no proposal	Nil	Mine is in Progressive stage.
5d	Total area fully reclaimed and rehabilitated	NA	NA	Mine is in Progressive stage.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Mine is in Progressive stage, hence backfilling / restoration proposals has not been given therefore not applicable

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).	yes	Annual PMCP has been submitted along with Annual Return on 29.06.2022	nil
6b	Area available for rehabilitation (ha) .	NA	NA	Mine is in Progressive stage, hence backfilling / restoration proposals has not been given therefore not applicable
6c	afforestation done (ha).	1.35 green belt	1.35 green belt	nil
6d	No. of saplings planted during the year	5960 nos	5960 nos	plantation on green belt/ 7.5 m sbz
6e	Cumulative no .of plants	concurrent	9146 Nos trees have been planted as on 01.04.2023	nil
6f	Any other method of rehabilitation	not proposed	nil	Mine is in Progressive stage.
6g	Cost incurred on watch and care during the year	NA	NA	Mine is in Progressive stage.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	not proposed	nil	Mine is in Progressive stage.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	not proposed	NA	Mine is in Progressive stage.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	not proposed	NA	Mine is in Progressive stage.

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	not proposed	NA	NA.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	not proposed	NA	Mine is in Progressive stage.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	not proposed	NA	Mine is in Progressive stage.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	not proposed	NA	Mine is in Progressive stage.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	not proposed	NA	Mine is in Progressive stage.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of Air, Water & Noise	Quarterly monitoring through NABL accredited Lab (Mahabal Enviro)	nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	ok	ok	Since the mineral has not been exhausted, no proposals of reclamation/ rehabilitation was proposed, however PMCP proposals is being implemented in the mines satisfactorily wherein plantation & Quarterly monitoring of noise, water, air is being carried out through NABL accredited Lab (Mahabal Enviro).
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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	15,00,437 T	10,38,211.97 T	100% ROM (cement grade) has been produced & dispatched to the captive cement plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	nil
7c	Different grade of mineral sorted out at mines.	NIL	cement grade	nil
7d	Any beneficiation process at mines .	NA	NA	nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	nil	nil	OB/ Waste is utilising by the lessee under the provision of Rule 12(1)(k) of MCR

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	not proposed	nil	nil
8b	Concurrent use or storage of topsoil	not proposed	Nil	nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	only OB/ Waste dumping was proposed	yes, as proposed	details already mentioned at waste dump table
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	only dumping of waste was proposed	as proposed	nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	not proposed	Nil	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	5960 saplings	5960 Nos of saplings planted along mine boundary in Safety barrier. cumulative 9146 nos of planted as on 01.04.2023	nil
8g	Survival rate	90%	85%	nil
8h	Water sprinkling on roads to control airborne dust	water sprinkling by water taker on roads	Implemented as proposed	nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	nil	nil	Lessee has submitted the PMCP report on 21.06.2023 along with the annual return

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 to IBM before the 10th day of every month in respect of the preceeding month. An Annual Return shall be submitted to IBM before the before the 1st day of July each year for the preceeding year.	Monthly and Annual Returns for the reporting period are being submitted within stipualted time frame M.R. of March 2023 was Submitted on 06.04.2023 A.R. of year 2022-23 was submitted on 21.06.2023	Monthly and Annual Returns for the reporting period are being submitted within stipualted time frame
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	1) Shri. Pankaj Gautam, Mining Engineer 2) Shri. Nilesh Maske, Geologist	appointment notice in form H was submitted stating Mr. Pankaj Gautam appointed as Mining Engineer w.e.f. 20.05.2022, & Nilesh Maske appointed as Geologist w.e.f. 11.01.2021	Notice of appointment in FORM-H has been submitted.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C Pit=22.61 hect OB/Waste= 2.11 hect Infra=10.82 Others (Plantation)=2.4 hect	as proposed	nil
9d	Scrutiny of Annual return on afforestation	5960 Nos of saplings planted along mine boundary in Safety barrier. Survival Rate 85%	found in order	nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	nil	deviation

9f	Scrutiny of Annual return on ROM stock and/or graded ore	At the begining opening stock is NIL & production ROM & dispatch reported= 10,38,211.97 T & closing stock reported nil	found correct	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	266.08 Rs/t	the ROM has been consumed by captive cement plant,	the ROM has been consumed by captive cement plant,
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (Rs 154226229)	As per Annual return	nil
9k	Scrutiny of Annual return on mining machineries	110 mm dia BLAST HOST DRILL=1 2.2 m3 SHOVEL (HYDRAULIC)=2 1.2 m3 SHOVEL (HYDRAULIC)=1 TIPPER=9 WHEEL LOADER=1 PUMPS (ELEC.) =2	As per Annual return	nil

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 :

(SNEHANKIT H. CHATTE)

Indian Bureau of Mines