

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

**MCDR INSPECTION REPORT**

**Nagpur regional office**

**Mine file No :** MAH/CND/FL-1/NGP

**Mine code :** 24MSH08001

- (i) Name of the Inspecting : **S123** ) **A.K. PATEL**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri Pankaj Kamble Geologist  
Official with  
Designation
- (iv) Date of Inspection : 06-Feb-23
- (v) Prev.inspection date : 27-Jun-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **DONGARGAON**
- (b) **Registration NO.** : **IBM/5319/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MAHARASHTRA  
District : CHANDRAPUR  
Village : DONGARGAON  
Taluka : WARORA  
Post office : DONGARGAON(RLY)  
Pin Code :  
FAX No. : (0712)-234239  
E-mail :  
Phone : 232775(M. D.),233101,23341!
- (f) Police Station :
- (g) First opening date : 19-Jul-89
- (h) Weekly day of rest : SUN
2. Address for : 3RD FLOOR, UDYOG BHAVAN,  
correspondance : CIVIL LINES,  
NAGPUR-440 001
3. (a) Lease Number : MSH0001
- (b) Lease area : 31.22
- (c) Period of lease : 50
- (d) Date of Expiry : 19-Dec-38
4. Mineral worked : FLUORITE Main

## 5. Name and Address of the

Lessee : M/s Maharashtra State Mining Corporation  
 5, Abhyankar Nagar Nagpur -  
 10 NAGPUR MAHARASHTRA  
 Phone:  
 FAX :

Owner : SHRI S.A. TAGDE  
 CHANDRAPUR MAHARASHTRA  
 Phone:  
 FAX :

Agent : SHRI P.P. SONI  
 NAGPUR MAHARASHTRA  
 Phone:  
 FAX :

## Mining Engineer

Name : SHRI S.L. TUPATE, Full Time  
 Qualification : MINE FOREMAN'S CERTIFICATE  
 Appointment/ : 04-Jun-04  
 Termination date

## Geologist

Name : SHRI P.P. SONI, Full Time  
 Qualification : MSc(Geo.)  
 Appointment/ : 01-Sep-03  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	15-Feb-02
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	08-Jul-08
	:	FMCP under 23C(1)	27-May-13
	:	Modif.of approved Mining Plan	19-Jul-16
	:	MP review under 17(1) MCR 2016	15-Jul-19

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	PB1,PB2,PB3, PB4, PB5, PB6, PB7, PB8, PB9	none	AS PER VIOLATION MODIFICATION HAS SUBMITTED BY MSMC.
1b	Exploration over lease area for geological axis 1 or 2	PB1,PB2,PB3, PB4, PB5, PB6, PB7, PB8, PB9	NONE	AS ABOVE
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	AS ABOVE
1d	Balance area to be explored to bring Geological axis in 1 or 2	PB1,PB2,PB3, PB4, PB5, PB6, PB7, PB8, PB9	NONE	
1e	Balance reserve as on 01/04/20	2,23,514 MT	2,23,514 MT (111) 61,000 MT (121) 1,00,000 MT (122)	AS ABOVE
1f	General remarks of inspecting officers on geology, exploration etc			MODIFICATION OF MINING PLAN IS UNDER PROCESSING

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	NIL	NW	Topsoil removal almost nil on date. Only Murom, cherty waste removal is carried.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)		Yes	Topsoil removal almost nil on date as it was done in primary phase of mine opening. Only Murom, cherty waste removal is carried.
2c	Stripping ratio or ore to OB ratio		0.71 T/M3	OB= 1525 M3 Prod= 1078.97 MT

2d	Quantity of topsoil generation in m3	NIL	Topsoil removal almost nil as on date as it was done in primary phase of mine opening.
2e	Quantity of overburden generation in m3	1525M3	Only Murom, cherty, subgrade waste removal is carried.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		MODIFICATION OF MINING PLAN HAS SUBMITTED BY MSMC.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single	Single	Winning & Working done only in single existing pit.
3b	Quantity of ROM mineral production proposed	3000MT	1395.000 M.T	NOT DONE AS PER PROPOSAL
3c	Recovery of sailable/usable mineral from ROM production		1236.76MT	Graded production
3d	Quantity of mineral reject generation		1926 M3	Only Murom, cherty, subgrade waste removal is carried & Stacking done as MW.
3e	Grade of mineral rejects generation and threshold value declared.	30% to 85% CaF2	>30% CaF2	
3f	Quantity of sub grade mineral generation.			Only Murom, cherty, subgrade waste removal is carried & Stacking done as MW.
3g	Grade of sub grade mineral generation		<30% CaF2	Only Murom, cherty, subgrade waste removal is carried & Stacking done as MW

3h	Manual / Mechanised method adopted for segregating from ROM		Manual	Manual breaking, sizing, sorting & graded stacking done
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Random waste- dump sampling done as and when required.		Random waste-dump sampling done as and when required.
3j	Provision of drilling and blasting in mineral benches		Yes	32mm dia holes are drilled and blasting of the same is carried out with 25mm dia cartridge with electric detonation firing.
3k	Provision of mining machineries in mineral benches	None	None	Only manual method of opencast mining operation carried out.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		Yes	Height = 2m Width = 2m
3m	Total area covered under excavation/pits		2.25Ha	
3n	Ore to OB ratio for the pit/mine during the year.		1:1.15	
3o	Total area put in use under different heads at the end of year	Pit- Waste/reject Others- Stacking	2.25Ha 1.5Ha 1.3Ha	1) Within lease acquired land = 5.05Ha (Mining, stacking, dumping, road etc.) 2) Within lease on rent = 0.40Ha (MW dump stacking) 3) Out of lease acquired land = 0.81Ha (Colony, W/B, plantation etc.)

3p	Production of ROM mineral during the last five year period as applicable	Yr 2017-18 Yr 2018-19 Yr 2019-20 Yr 2020-21 Yr2021-22	Yr 2017-18= 1314.48 Yr 2018-19 = 1078.97 Yr 2019-20= 1164.68 Yr 2020-21= 1052.12 Yr2021-22= 1236.76	Production declining due to paucity of stacking space for graded production as there was no dispatch from Jul/2013 to Aug/2017 due to legitimate issues/reasons.
3q	General remarks of inspecting officers on method of mining etc.			MODIFICATION OF MINING PLAN IS SUBMITTED BY MSMC.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)		Yes	Top Soil & MW stack dumping done separately.
4b	Location of topsoil, OB and mineral reject dumps		Topsoil- P/o No.27 (NE). MW/Subgrade - P/o S.No.27 (NE), S. No. 69 (South), S. No. 26 (North), S. No. 25 ( on rent North side)	Periphery of the existing pit.
4c	Number of dumps within lease area and outside of lease area		Five	Includes Topsoil stacking done adjacent to MW/Subgrade dumps.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)		>60mtr	Active dump away from top edge of the working pit
4e	Number of active and alive dumps.		One	One active on S. No. 25 (North), At present MW dumping done there only.
4f	Number of dead dumps.		One	S. No. 70 (South side) low height naturally stable.
4g	Number of dumps established.			All the dumps are of low heights so are stable

4h	Whether Retaining wall or garland drain all along dumps are there.	Done	
4i	Length of Retaining wall or garland drain all along dumps	50 Mtr.	
4j	Number of settling ponds	One	Maximum water of the dumps is collected in two water soaking pits on North side of the pit 200 Mtr away.
4k	Specific comments of inspecting officer on waste dump management		AS ABOVE

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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.	Within acquired land	None	Mining is still going on and MSMC yet to fully exploit the lease area.
5b	Area under backfilling of mined out area	None	None	Mining is still going on and MSMC yet to fully exploit the lease area.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)		Used	Used as and when required for plantation
5d	Total area fully reclaimed and rehabilitated	None	None	Mine is still in development & expansion stage.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			AS ABOVE

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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).	NA	NA	Open-pit mining
6b	Area available for rehabilitation (ha) .		Separate benches for mineral and waste rock formed	Mine is still in development & expansion stage.
6c	afforestation done (ha).	None		
6d	No. of saplings planted during the year	45	47	
6e	Cumulative no .of plants		1193	Includes within & outside lease cumulative area 0.29 Ha Survival 60%
6f	Any other method of rehabilitation		None	Water reservoir & Plantation work.
6g	Cost incurred on watch and care during the year		Rs. 5,20,000/-	Cost includes watch & care, other necessary expenses.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	None	None	Mine is still in development & expansion stage.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	None	None	Mine is still in development & expansion stage.



6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Yes	NONE	Mine is still in development & expansion stage.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Water Reservoir	NONE	Mine is still in development & expansion stage.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	YES	1193	Plantation includes within & outside lease cumulative area 0.29 Ha Survival 60%
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)		0.30Ha	includes within & outside lease cumulative area 0.30Ha Survival 60%
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation		At present only plantation is done within lease (mostly peripheral land) or outside land is carried out.	Water reservoir & Plantation work. And Dump material may be utilised for partial reclamation in future
6p	Compliance of environmental monitoring (core zone and buffer zone)			1.48 Ha of Forest land surrendered of lease 32.70Ha. Hence now lease area renewed is 31.22Ha. Buffer Zone is 3kms away from lease
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PLANTATION IN PROGRESS.

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	YES	YES	Dispatch done manual loading of Truck.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	YES	Manual	Manual breaking, sizing, sorting & graded stacking done
7c	Different grade of mineral sorted out at mines.	YES	YES	Manual breaking, sizing, sorting & graded stacking done
7d	Any beneficiation process at mines	None	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			MANNUAL breaking, sizing, sorting & graded stacking done

## Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	YES	YES	Stacked separately and utilised for plantation purpose.
8b	Concurrent use or storage of topsoil		Stacked separately and utilised for plantation purpose.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Part of Waste/ excluding topsoil is used for ground preparation for stacking graded production. Waste lumps used for safety bunds/berms, internal mine roads etc. work.	MW stacks dumping done separately. And are located at the periphery of the mine in stable condition.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use		Part of Waste/ excluding topsoil is used for ground preparation for stacking graded production. Waste lumps used for safety bunds/berms, internal mine roads etc. work.	Stacks dumps are to be sold as mineralised waste /Subgrade entity having Caf2 ranging 25 - 40%.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	NONE	All dumps except one which is naturally vegetated and rest are to be sold
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	YES	1193 Nos. Plantation done of species of cassia, neem, karanj, mango, rosewood, lemon, siwan sag, jamun, guava etc. to survive in the local climate at the 60-70% survival rate.	Naturally area is scarcely vegetated with species of babool, neem, keni, etc
8g	Survival rate		60-70%	60-70% Survival of plantation done
8h	Water sprinkling on roads to control airborne dust	YES	YES	Manually & pipe facility available at mine.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Manually & pipe facility available at mine. Naturally area is scarcely vegetated with species of babool, neem, keni, etc.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR SUBMITTED FOR 2021-2022 MR UP TO JAN 2023.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Yes Geologist- yes	Vikas v kalyankar Mining Er. BE(Mining Engg) gGEOLOGIST-PANKAJ KAMBLE	
9d	Scrutiny of Annual return on afforestation	AS PER ANNUAL RETURN.		

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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 :**

**(A.K. PATEL)**

Indian Bureau of Mines