

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/RGH/BX-11/NGP

Mine code : 07MSH12002

- (i) Name of the Inspecting : **M017**) **ASHISH MISHRA**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Datta Bhavakar, Group Agent
Official with
Designation
- (iv) Date of Inspection : 28/12/2017
- (v) Prev.inspection date : 17/05/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MOOLVELAS(50.21H)**
- (b) **Registration NO.** : **IBM/778/2011**
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MAHARASHTRA
- District : RAIGAD
- Village : MOOLVELAS
- Taluka : SHRIWARDHAN
- Post office :
- Pin Code : 590011
- FAX No. : N.A.
- E-mail : N.A.
- Phone : N.A.
- (f) **Police Station** : SHRIVARDHAN
- (g) **First opening date** : 16/08/2002
- (h) **Weekly day of rest** : SUN
2. **Address for** :
correspondance
3. (a) **Lease Number** : MSH0299
- (b) **Lease area** : 50.21
- (c) **Period of lease** : 30
- (d) **Date of Expiry** : 30/12/2032
4. **Mineral worked** : BAUXITE Main

5. Name and Address of the

Lessee : M/S BHARTESH CONSTRUCTION COMPANY
 Prop. Shri S.T. Kuduchwad
 Shop No. 34, Corporation
 Complex, Hindwadi, Belgaum
 BELGAUM KARNATAKA
 Phone:
 FAX :

Owner : M/S ALTAGE STONE CRUSHING INDUSTRIES
 SHRIWARDHAN, RAIGAD-402 110
 RAIGAD MAHARASHTRA
 Phone: 02147-223203
 FAX : 02147-223792

Mining Engineer

Name : SHRI RANJEET KUMAR, Full Time
 Qualification : DIPLOMA IN MINING AND MINE SURVEYING
 Appointment/ : 01/07/2004
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	25/07/2002
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	30/10/2006
	:	Mining Scheme rule 12 MCDR1988	05/05/2009
	:	Mining Scheme rule 12 MCDR1988	22/03/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	18 Nos.	11 Nos of Bore holes done	As the mine was not working since long, the mine has been lapsed by the State Govt. on 03/11/2017.
1b	Exploration over lease area for geological axis 1 or 2	G1 & G2	G1 & G2	Part of the area is under G-1 and part is in G-2 category. There is some part that is still un-explored but exploration is difficult in those areas due to steep slopes and valley.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	In House Exploration Expenses: 0.25 lakh	In House Exploration Expenses: 0.25 lakh	Balance area was proposed to be explored in the subsequent Mining Plan period but the mine has been lapsed by the State Govt.
1d	Balance area to be explored to bring Geological axis in 1 or 2	23.84 ha	23.84 ha	
1e	Balance reserve as on 01/04/20		111: 2,90,740 T 121 & 122 : 2,02,836 T 211 : 18609 T 221& 222: 6577 T 333: 38,57,114 T	
1f	General remarks of inspecting officers on geology, exploration etc			Compliance of provisions of MCDR'1988 w. r. t. violation issued for exploration has been done by the lessee by drilling 8 boreholes in 2016-17. The lease needs detailed exploration as major area is still unexplored. Presently the lease is lapsed.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	South West of Lease	Nil	No Mining Activity
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Top Soil	Nil	No Mining Activity
2c	Stripping ratio or ore to OB ratio	1.0.12	Nil	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	12513 T	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 Pits	Nil	No Mining Activity
3b	Quantity of ROM mineral production proposed	125127.5 T	Nil	
3c	Recovery of sailable/usable mineral from ROM production	100102 T	Nil	
3d	Quantity of mineral reject generation	12513 T	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	15-30% Al ₂ O ₃ with SiO ₂ more than 30%	Nil
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
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting using 115mm dia hole using slurry & ANFO in conjunction with delay detonators.	Nil
3k	Provision of mining machineries in mineral benches	Yes	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5 m bench height was proposed to be maintained	Nil
3m	Total area covered under excavation/pits	4.465 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.12	Nil

3o	Total area put in use under different heads at the end of year	Area under: Pits: 4.465 ha WasteDump:0.03 7Ha Infrastructure :0.60Ha Plantation: 0.45 Ha	Nil	
3p	Production of ROM mineral during the last five year period as applicable	2011-12 : 90960 T, 2012-13 : 100080 T 2013-14 : Nil, 2014-15 : Nil, 2015-16 : Nil	2011-12 : 64400 MT, 2012-13 : 20600 MT, 2013-14 : 38000 MT, 2014-15 : Nil, 2015-16 : Nil	
3q	General remarks of inspecting officers on method of mining etc.			There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not applicable	Nil	There is no top soil in the area. Further, overburden/waste generated is backfilled as soon as the pit is exhausted.
4b	Location of topsoil, OB and mineral reject dumps	Not available	Nil	
4c	Number of dumps within lease area and outside of lease area	No dumps available, temporary dumping of excavated material besides working pits that will be backfiled after exploitation.	Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within pit limits as dumps are temporary and proposed for simultaneous backfilling.	Nil	
4e	Number of active and alive dumps.	Nil	Nil	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	Retaining wall and garland drains are made in the slopes of hillocks
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Around 250 m of garland drain observed during inspection
4j	Number of settling ponds	One settling pond	One	One settling pond seen with 5-6 check dams is available
4k	Specific comments of inspecting officer on waste dump management			Backfilling was being practiced when mine was in operation; as is usual in case of Bauxite mining. Further as the area is nearer to sea, settling pond and check dams are there to avoid any degradation to flora and fauna.

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.	After full extraction of pits, simultaneous backfilling of pits with waste.	Nil	

5b	Area under backfilling of mined out area	0.22 ha	0.22 ha	No mining activity carried out since 2014-15. The data is pertaining to previous years.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Top soil available	Nil	
5d	Total area fully reclaimed and rehabilitated	0.315 ha	0.315 ha	The area already mined out has been backfilled and plantation has been done on the same for the period when the mine was in operation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.

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).	No	No	There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.
6b	Area available for rehabilitation (ha) .	0.315 ha	0.315 ha	There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.
6c	afforestation done (ha).	4500 saplings	Number of saplings were lesser at around 450-500	

6d	No. of saplings planted during the year	Nil	Nil
6e	Cumulative no .of plants	4500	450
6f	Any other method of rehabilitation	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.315 ha	0.315 ha
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.315 ha	0.315 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0.315 ha	0.315 ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposals	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	
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)	Air, Noise & water are being analyzed in core and buffer zone. There are 10 stations for each parameter where the same are being analyzed	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting within lease area	Nil	Grade-wise sorting was being done within the lease area when the mine was in operation.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Crushing and Screening (when in operation)	
7c	Different grade of mineral sorted out at mines.	Nil	Nil	Cement Grade Bauxite is present in the area.

7d	Any beneficiation process at mines	No	Nil	Crushing and Screening (when in operation)
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil available	Nil	
8b	Concurrent use or storage of topsoil	Not applicable	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	Temporary dumps were being formed nearby the site of excavation and after mining out the mineral, waste was being backfilled.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Nil	Earlier 0.315 ha area has been reclaimed and rehabilitated through backfilling.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Nil	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Given in the Mining Plan	
8g	Survival rate		10-20%	Survival was less due to non-availability of fresh water and top soil.
8h	Water sprinkling on roads to control airborne dust	Yes	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation was seen in form of Cashew and some other regional species. No specific environmental damage was observed due to mining.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		No returns submitted online	There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	Nil	There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	Nil	There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.
9d	Scrutiny of Annual return on afforestation	Nil	Nil	There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil As per last submitted returns for 2015-16, ROM: Opening and Closing stocks: 9866.11 T Graded Ore opening and Closing stocks: 873.05 T (Cement grade)	There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.
9h	Scrutiny of Annual return on fixed assets	Nil	Nil	There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.

9k	Scrutiny of Annual return on mining machineries	Nil	Nil	There was no mining activity in the area as the lease has been lapsed by the state govt for non-working for more than two years.
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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 :

(ASHISH MISHRA)

Indian Bureau of Mines