

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

Inspection under SDF for star rating of mines REPORT

Bangalore regional office

Mine file No : KRL/PAL/LST/1/BNG

Mine code : 38KRL08001

- (i) Name of the Inspecting : **S011**) **K.SRINIVAS**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri. Jose, DGM & Shri Sony, Mining Engineer and othe
Official with
Designation
- (iv) Date of Inspection : 23/01/2019
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PANDARATHU**
- (b) **Registration NO.** : **IBM/4265/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KERALA**
- District : **PALAKKAD**
- Village : **PUDUSSERY**
- Taluka : **PALAKKAD**
- Post office : **WALAYAR**
- Pin Code : **678624**
- FAX No. : **0491-2862230 (F)**
- E-mail : **jtkmcl@yahoo.com,ro@malaba**
- Phone : **0491-2862220 (O),944600476!**
- (f) **Police Station** : **WALAYAR**
- (g) **First opening date** : **04/06/1980**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **MALABAR CEMENTS LTD.,**
correspondance **MALABAR CEMENTS LTD , WALAYAR POST, PALAKKAD,**
KERALA-678624.
3. (a) **Lease Number** : **KRL0003**
- (b) **Lease area** : **245.69**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **22/12/2023**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : MALABAR CEMENTS LTD
 WALAYAR POST, PALAKKAD,
 PALAKKAD KERALA
 Phone:0491-2862373
 FAX :0491-2862230

Owner : K. PADMAKUMAR
 M/s MALABAR CEMENTS LIMITED
 WALAYAR DIST-PALAKKAD
 PALAKKAD KERALA
 Phone: 0491-2862373
 FAX : 0491-2862230

Agent : JOSEPH FRANCIS
 WALAYAR DIST-PALAKKAD
 PALAKKAD KERALA
 Phone: 0491-2862373; 09446004748
 FAX : 0491-2862230

Mining Engineer

Name : SONNY KURIA KOSE, Full Time
 Qualification : B.E.MINING
 Appointment/ : 12/12/2005
 Termination date

Manager

Name : JOSE THOMAS
 Qualification :
 Appointment/ : 01/02/1986
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	09/11/1995
Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	29/05/2002
	:	Mining Scheme rule 12 MCDR1988	21/04/2006
	:	Mining Scheme rule 12 MCDR1988	28/11/2011
	:	Mining Scheme rule 12 MCDR1988	10/03/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Two boreholes	NIL	Violation pointed out.
1b	Exploration over lease area for geological axis 1 or 2	Two boreholes	NIL	violation pointed out.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	DMG	-	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	nil	-
1e	Balance reserve as on 01/04/20	-	-	9.873 Million metric tonnes(111) as on 1.4.2018.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Exploration work has not been carried out and the violation has been pointed out.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N:1200922 to 1201098 E:693742 to 693845	N:1200922 to 1201098 E:693742 to 693845	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA	-
2c	Stripping ratio or ore to OB ratio	1:0.54	1:0.36	-
2d	Quantity of topsoil generation in m3	nil	nil	-
2e	Quantity of overburden generation in m3	119716 cu.m	60231 cu.m	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	There are no specific remarks on development of pit.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	-
3b	Quantity of ROM mineral production proposed	6.0 lakhs	450421 tonnes	-
3c	Recovery of sailable/usable mineral from ROM production	Not applicable	nil	This is a captive mine.
3d	Quantity of mineral reject generation	Nil	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	-
3f	Quantity of sub grade mineral generation.	NA	NA	-
3g	Grade of sub grade mineral generation	NA	nil	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	nil	-
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	-

3k	Provision of mining machineries in mineral benches	Yes	Yes	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES	-
3m	Total area covered under excavation/pits	30.9Ha	30.9Ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.54	1:0.36	-
3o	Total area put in use under different heads at the end of year	Area under Mining 30.90 Waste Dump Site 27.47 Mineral Storage 0.90 Infrastructure (Workshop Admn. Bldg.) 7.35 Roads 5.39 Crushing & Screening Plant 3.30 Green Belt 2.50 Unbroken Area 157.1307	Area under Mining 30.90 Waste Dump Site 27.47 Mineral Storage 0.90 Infrastructure (Workshop Admn. Bldg.) 7.35 Roads 5.39 Crushing & Screening Plant 3.30 Green Belt 2.50 Unbroken Area 157.1307	-
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 660342 t 2014-15: 660067 t 2015-16 : 660183 t 2016-17 : 600000t 2017-18 : 600000 t	2013-14: 538044 t 2014-15: 549346 t 2015-16 :303725 t 2016-17 :425861t 2017-18 : 450421 t	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	There is no change in method of mining.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	-
4b	Location of topsoil, OB and mineral reject dumps	OB on southern side	OB on southern side	-
4c	Number of dumps within lease area and outside of lease area	three	three	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	south	south	-
4e	Number of active and alive dumps.	two	two	-
4f	Number of dead dumps.	one	one	-
4g	Number of dumps established.	all	all	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	-
4i	Length of Retaining wall or garland drain all along dumps	800m	Not completed	the violation pointed out.
4j	Number of settling ponds	Nil	Nil	-
4k	Specific comments of inspecting officer on waste dump management	-	-	The retaining wall has not been constructed as per the approved proposals. The violation has been pointed out.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposals	nil	-

5b	Area under backfilling of mined out area	No proposals	nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals	nil	-
5d	Total area fully reclaimed and rehabilitated	No proposals	nil	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	There are no specific remarks on backfilling, reclamation etc.

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).	-	Yes	-
6b	Area available for rehabilitation (ha) .	No proposals	nil	-
6c	afforestation done (ha).	No proposals	nil	-
6d	No. of saplings planted during the year	No proposals	nil	-
6e	Cumulative no .of plants	No proposals	nil	-
6f	Any other method of rehabilitation	No proposals	Nil	-
6g	Cost incurred on watch and care during the year	No proposals	nil	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals	nil	-

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals	nil	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposals	nil	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals	Nil	-
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposals	nil	-
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No Proposals	nil	-
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No Proposals	nil	-
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No Proposals	nil	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	No Proposals	nil	-

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	There are no specific remarks on PMCP.
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Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposals	Nil	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposals	nil	-
7c	Different grade of mineral sorted out at mines.	No proposals	nil	-
7d	Any beneficiation process at mines	No proposals	nil	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	There are no specific remarks on mineral conservation and beneficiation issues.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals	Nil	-
8b	Concurrent use or storage of topsoil	No proposals	nil	-

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	yes	The waste is dumped separately in the southern side of the lease area.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals	nil	No specific proposals.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals	nil	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 saplings	500 saplings	-
8g	Survival rate	80%	80%	-
8h	Water sprinkling on roads to control airborne dust	yes	yes	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	There is no change in aesthetic beauty in and around the mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR submitted upto December, 2018 AR submitted upto 2017-18.	-	-

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information given	No geologist appointed.	The violation pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	-	-
9d	Scrutiny of Annual return on afforestation	Details given	-	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given	nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given	-	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given	nil	-
9h	Scrutiny of Annual return on fixed assets	Details given	-	-
9k	Scrutiny of Annual return on mining machineries	Details given	-	-

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
MCDR17	Rule 11(1)	20/02/2019	07/05/2019				
MCDR17	Rule 35(2)	20/02/2019	07/05/2019				
MCDR17	Rule 55(1)(1)	20/02/2019	07/05/2019				

Date :

(K.SRINIVAS)

Indian Bureau of Mines