# MCDR INSPECTION REPORT Pandarettu Lst mine of M/s Malabar Cement Ltd

C	Pandarettu Est mine of M/s Maiadar Cement Etd  Particulars Details			
S. N.	Particulars	Details		
1	Name of the Mine	Pandarettu Limestone mine		
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	234.94 Ha (Forest)		
3	Mine code	38KRL08001		
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4265/2011		
5	Name of the lessee, Address, phone, email and fax number	M/s Malabar Cements Ltd. Walayar (P.O) Palakkad -678 624 jtkmcl@yahoo.com		
6	Village	Pudussery		
7	Taluk/Mandal	Palakkad		
8	District	Palakkad		
9	Pin code	678 624		
10	State	Kerala		
11	Post office	Walayar		
12	Nearest police station	Walayar		
13	Nearest Railway station	Palakkad		
14	Date of Grant of Mining Lease	26/08/2003		
15	Date of Execution	26/08/2003		

16	Date of opening of Mine	04/06/1980
17	Date of first Renewal, if applicable and its period & expiry	-
18	Date of second Renewal, if applicable and its period & expiry	-
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	-
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	M.Mohammad Ali
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mohan Laxman Bevinakatti
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Jose Thomas
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sony Kuriayakose
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mohan Chandran
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	03/02/2021

26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	03/02/2021 (2021-22 to 2025-26)
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/ Non captive	Captive
31	Date of inspection	24.08.23
32	Name of accompanying mine officials with designation	Sony Kuriayakose, Mining Engineer and others.

Exploration

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S.	Item	Proposals	Actual work	Remarks
N.				
1a	Backlog of previous		10 boreholes	These
	year	5 boreholes	have been	boreholes
		(2021-22)	drilled.	drilled in
				between
				April to
				July,2023.
1b	Exploration over lease	12 boreholes	No	The violation
	area for Geological axis	of total	exploration	has been
	1 or 2.	Meterage 810	has been	issued.
		Mts proposed	carried out.	
		for the year		

		2022-23			
1c	Exploration Agency & Expenditure in lakh Rupees during the year.	The lessee	Not specified	-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	G1-30.90ha G2-204.04	-	
1e	Balance reserves as on 01.04.2023	Reserves tonnes as on 1.4.2022 is 8355715 tonnes.	Grade- above 34%CaO	Reserves tonnes as on 1.4.2023 is 7975337tonn es.	
1f	General remarks of inspecting officer on geology, exploration etc.	carried out for the year 2022-23. The			

Development

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S.	Item	Proposals	Actual work	Remarks		
N.		_				
2a	Location of development w.r.t. lease area	Northing: 1200918 to1201066 Easting: 693469 to 693825	Developmen t carried out within the proposed area.	-		
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches proposed for OB and Mineral.	Benches maintained as per the proposals	-		
2c	Stripping ratio or ore to OB ratio	1:0.49 (in tonnes)	1: 0.42 (in tonnes)	Ore :380378t Waste :1599		

				10t	
2d	Quantity of topsoil	No proposal	nil	No top soil	
	generation in m3			generated.	
2e	Quantity of overburden	92112 m3	59226 cu.m	-	
	generation in m3				
2f	General remarks of	It is observed during the inspection that the			
	inspecting officer on	mining operations are being carried out in			
	development of pit w.r.t.	the absence of	valid accorded	EC and FC. It	
	type of deposit etc.	is reported duri	ng the inspection	on that the	
		same are under process. In this regard, the			
		correspondence was already made with the			
		State Governm	ent, Kerala.		

Exploitation

pioita	ioitation				
S. N.	Item	Proposals	Actual work	Remarks	
3a	Number of pits proposed for production	One pit proposed	One pit	-	
3b	Quantity of ROM mineral production proposed	500023 tonnes	380378 tonnes	-	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	-	
3d	Quantity of mineral reject generation	No proposal	NIL	-	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	-	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	-	
3g	Grade of sub-	No proposal	Nil	-	

	grade mineral generation			
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal. Only crushing and screening proposed	Crushing of ROM carried out.	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	-
3j	Provision of drilling & blasting in mineral benches	Deep hole Drilling and blasting proposed	Deep hole drilling and blasting carried out.	Drills of 100mm dia. Blasting carried out using slurry explosive in conjuction with delay electric detonators.
3k	Provision of mining machineries in mineral benches	Excavator and Tipper combination proposed	HydraulicExcavato r 2.7cum3 Back hoe 1.0cum - 1 Drill 100mm - 4 Tipper 35tons -9 Tipper 10tons-1 Water Tanker 27000lt -1 Dozer -3 Crusher 400tph-1 Crusher 250tph-1	Nil

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of benches in OB and Limestone – 9m.	Height of benches in OB and Limestone – 9m.	Nil
3m	Total area covered under excavation/pits	30.90 ha at the end of the plan period(2025-26)	30.90 ha	As per the Annual Return 2022- 23
3n	Ore to OB ratio for the pit/mine during the year	1 : 0.49 (in tonnes)	1: 0.42 (in tonnes)	Ore :380378t Waste :1599 10t
30	Total area put in use under different heads at the end of year	Area under Mining -30.90ha Waste dump — 31.27ha Infrastructure&R oads- 12.74ha Mineral storage - &Mineral Separation plant - 4.6ha Green belt - 8.19ha at the end of the plan period(2025- 26)	Area under Mining - 30.90ha Waste dump - 27.24ha Infrastructure&Roa ds-12.74ha Mineral storage - &Mineral Separation plant - 3.30ha Green belt -8.0ha at the end of the plan period(2022- 23)	As reported in AR 2021-22.
3p	ROM mineral	2018-19 : 600000 2019-20 : 600000 2020-21: 600000	2018-19 :315174 2019-20 :416362 2020-21: 369056	nil

	year period, applicable	as	2021-22 : 599998 2022-23 : 500023	2021-22 : 399019 2022-23 : 380378	
	approusic		( in tonnes)	(in tonnes)	
3q	General		There is no change	in the method of min	ing.
	remarks	of			_
	inspecting				
	officer	on			
	method	of			
	mining etc.				

**Solid Waste Management-Dumping** 

S.N	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of Overburden proposed.	OB dumping carried out in the earmarked area.	No top soil generated.
4b	Location of topsoil, OB & mineral reject dumps	OB dump-E - 693758 to 693955 N-1200609 to 1200669	The dumping of waste carried out in the proposed area.	Nil
4c	Number of dumps within lease area and outside lease area	1 OB dump within the mining lease.	1 OB dump within the mining lease.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB dump proposed outside the UPL	OB dump is outside the UPL	Nil
4e	Number of active & alive dumps	One OB dump within the lease.	One OB dump within the lease	Nil

4f	Number of dead dumps	Nil	Nil	Nil
4g	Number of dumps stabilized	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	Retaining wall and garland drain all along dump proposed.	The retaining wall and garland drain not present at the toe of the waste dump as proposed.	The violation has been issued.
4i	Length of Retaining wall or garland drain all along dump	200m Retaining wall and 200m garland drain all along dump proposed for the year 2021-22.	200m Retaining wall and 200m garland drain all along dump not constructed.	Violation issued.
4j	Number of settling ponds	No proposals	Nil	-
4k	Specific comments of inspecting officer on waste dump management.			

**Solid Waste Management-Backfilling** 

S.N	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling		Nil	-
5b	Area under backfilling of mined out area	No proposals	Nil	-

5c	Concurrent use of topsoil	No	Nil	-
	for restoration or	proposals		
	rehabilitation of mined			
	out area (Rule 32)			
5d	Total area fully	No	Nil	-
	reclaimed & rehabilitated	proposals		
5e	General remarks of	No proposa	als for backfi	lling hence no
	inspecting officer on	specific comn	nents.	
	backfilling, reclamation			
	etc			

**Progressive Mine Closure Plan** 

S.N	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	To be submitted the annual report on PMCP under Rule26(2)	Annual PMCP Report for the year 2022- 23submitted on 30.6.2023	-
6b	Area available for rehabilitation (ha)	0.05	0.05ha	As reported by the lessee
6c	Afforestation done (ha)	0.05	0.05	As reported by the lessee
6d	No. of saplings planted during the year	15	15	As reported by the lessee
6e	Cumulative no. of plants	190	205	As reported by the lessee
6f	Any other specific method of rehabilitation	No proposal	nil	nil
6g	Cost incurred on watch & care during the year	Not specified	nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for	No proposal	nil	nil

	backfilling (L x B x D)			
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings	No proposal	nil	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area	No proposal	nil	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	nil	-
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	No proposal	nil	-
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	No proposal	nil	-
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha)	No proposal	nil	-
60	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	nil	-

6р	Compliance of Environmental monitoring (core zone & buffer zone)	Environment monitoring proposed for Air, Water, Dust, Ground water & Noise.	Environment monitoring carried out for Air, Water, Dust, Ground water & Noise.	All the environment al parameters within limit
6q	General remarks of inspecting officer on PMCP compliance & progressive closure operations	1	posals have been per the proposed.	implemented

## **Mineral Conservation**

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade- wise sorting within lease area	No proposal for grade wise sorting. Only crushing and screening proposed	Crushing of ROM carried out.	nil
7b	Method of grade- wise mineral sorting i.e. manual or mechanical	No proposal	nil.	Nil
7c	No proposal	nil.	Nil	No proposal
7d	No proposal	nil.	Nil	No proposal
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No specific con	nments.	

### **Environment**

S.N	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	nil.	Nil
8b	Concurrent use or storage of topsoil	No proposal	nil.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping proposed for waste.	Separate waste dump maintained.	No generation of fines and rejects.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	nil.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposal	nil.	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	500 no. of plants	500 no. of plants	-
8g	Survival rate	85%	80%	nil

8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to control airborne dust.	Water sprinkling carried out to control the airborne dust on haul roads and screening plant.	A water tanker of 27000 liters capacity used for water sprinkling.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		O	c beauty in and

**Compliance of Rule 45** 

S.N	Îtem	COMMENTS		Remark
•				S
9a	Status of	Monthly Returns submitted up to		-
	submission of	July, 2023.		
	Monthly and	Annual Return submitted for	or the year	
	Annual returns	2022-23 on 30.06.2023.		
S.N	Item	Details GIVEN in A.R.	Observatio	Remark
			n of I/Officer	S
9b	Scrutiny of Annual	Sri		
	return for	Mohanachandran, Geologi		
	information on	st	Appears to	
	Mining Engineer,	Sri Sony Kuriyakose,	Appears to be correct.	-
	Geologist and	Mining Engineer	De Correct.	
	Manager	Sri Jose Thomas,		
		Manager		
9c	Scrutiny of Annual	Area under	Appears to	-
	return on land use	Mining - 30.90ha	be correct	
	pattern for area	Waste dump – 27.24ha		
	under pits,	Infrastructure&Roads-		
	reclaimed area,	12.74ha		
	dumps etc.	Mineral storage -		
		&Mineral Separation		

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		plant – 3.30ha Green belt -8.0ha		
9d	Scrutiny of Annual return on afforestation	500 saplings within lease area	Appears to be correct.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Appears to be correct.	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/S –4974.4t Production -380378t C/S – 20133.4t	Appears to be correct	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production- Rs1058.39/tonne. Ex-pricemine- Rs916.79/tonne	Appears to be correct.	This mine is captive mine and state PSU.
9h	Scrutiny of Annual return on fixed assets	Details of Fixed Assets given.	Appears to be correct	
9k	Scrutiny of Annual return on mining machineries	HydraulicExcavator 2.7cum3 Back hoe 1.0cum -1 Drill 100mm - 4 Tipper 35tons -9 Tipper 10tons-1 Water Tanker 27000lt -1 Dozer -3 Crusher 400tph-1 Crusher 250tph-1	Appears to be correct	-

Date:

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