

MCDR INSPECTION REPORT

1) Name of Inspecting officer:	Rajani kanta Rautaray
2) Designation	Assistant Mining Engineer
3) Accompanying mine official with designation	Sumanta Sahu, AGM (Geology), IDCOL
4) Date of Inspection	16.10.2022

Part-I: General

S. N.	Particulars	Details
1	Name of the Mine	Ampavalli Limestone Mines, of IDC, Ampavalli
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	280.771 Hectares Forest land- NIL
3	Mine code	38ORI09006
4	IBM Registration Number under rule 45 of	4421
5	Name of the lessee, Address, phone, email and fax number	IDCOL, IDCOL House, Unit – II, Ashok Nagar, Bhubaneswar – 751009. Phone No: 06742530976 e-mail: idcmining@yahoo.com
6	Village	Ampavalli
7	Taluka/Mandal	Pottangi
8	District	Koraput
9	Pin code	764039
10	State	Odisha
11	Post office	Pottangi
12	Nearest police station	Sunki
13	Nearest Railway station	Bobbili
14	Date of Grant of Mining Lease	16/08/1993
15	Date of Execution	16/08/1993
16	Date of Re-opening of Mine	26/12/2014
17	Date of first Renewal, if applicable and its period	16/08/2013
18	Date of second Renewal, if applicable and its period & expiry	15/08/2043
19	Date of submission of renewal application of Mining Operations are continuing under deemed extension	24/01/2014
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Balwant Singh, IAS Managing Director IDC of Odisha Ltd., IDCOL HOUSE, Ashok Nagar, Unit-II, PB.No.78, Bhubaneswar-1 Phone:0674-2530898,2535824 Date of Appointment- 11.06.2021
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Abhimanyu Behuria Ph. No:(0) 8249490644 Ampavalli Limestone Mines, of I D C of Odisha Ltd. Ampavalli – 764039, Pottangi Tahsil, Koraput (Dist.), Odisha. Date of Appointment-15.03.2022

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22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Himanchala Acharya Ampavalli Limestone Mines, of I D C of Odisha Ltd. Ampavalli – 764039, Pottangi Tahsil, Koraput (Dist.), Odisha. D.O.A: 5/4/2017
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Himanchala Acharya Ampavalli Limestone Mines, of I D C of Odisha Ltd. Ampavalli – 764039, Pottangi Tahsil, Koraput (Dist.), Odisha D.O.A: 25/11/2018
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Sumanta Sahu, Msc Geology Date of Appointment: 10.10.2022
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	15/11/2017
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanized, Others or Manual)	A- OTFM
30	Captive/Non Captive	Non Captive

Details about Mining Plan/ Mining Scheme

a) Letter No. and date of approval of mining plan	:	MPM/OTFM/19-ORI/BHU/2017-18 & 15.11.2017
b) Letter No. and date of approval of mining scheme.	:	NA
c) Condition while approving the MP/ MS/ modification	:	Nil
d) Period of mining plan/ mining scheme in force :	:	5 Years, Valid upto 31/03/2023

PART II-TECHNICAL DETAILS**Exploration:**

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year (2021-22)	18 nos	04	Three Nos. of bore holes have been drilled for the year 2020-21 during the exploration programmed carried out in the year 2018-19 and 2019-20.
1b	Exploration over lease area for Geological axis 1 or 2.	Geological axis 1	Geological axis 1	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	M/s Earth and Environment	Rs 345600/+ GST- for 128 mt drilling.	

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1d	Balance area to be explored to bring Geological axis in 1 or 2	18 hector	4 hector	Total lease area- 280.771 hectors Exploration G1 axis-110 hectors as on 31 st March 2022. But in this current financial year ie 2022-23 as on date 16.10.2022 (thirty number of hole have been completed.)
1e	Balance reserves as on 21.08.2017	66.801 Million Tonne		
1f	General remarks of inspecting officer on geology, exploration etc			Violation letter has been issued under rule MCDR, 2017

1. Development (2021-22):

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Quarry -2 E/W: -1047, -1303 N/S: -1333, -1449	Quarry -2 E/W: -1047, -1303 N/S: -1333, -1449	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	E/W: -1574, -1602 N/S: -1140, -1200	E/W: -1574, -1602 N/S: -1140, -1200	
2c	Stripping ratio or ore to OB ratio	1:0.03	1:0.038	
2d	Quantity of topsoil generation in m ³	7000 cum	200 cum	As per availability.
2e	Quantity of overburden generation in m ³	No proposal	NIL	No provision in approved Mining plan,
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc			

2. Exploitation (2021-22)

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Quarry No-2	Quarry No-2	
3b	Quantity of ROM mineral production proposed	336127 MT	183528 MT	

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3c	Recovery of salable/usable mineral from ROM production	336127 MT	181794 MT	1734MT of subgrade generated and stacked in subgrade dump.
3d	Quantity of mineral reject generation	No such proposal	640 cum	Blended with mineral
3e	Grade of mineral reject generation and threshold value declared	-35% CaO	-35% CaO	
3f	Quantity of sub-grade mineral	No such proposal	640 cum	
3g	Grade of sub-grade mineral generation	-35% CaO	-35% CaO	Blended with mineral
3h	Manual / Mechanized method adopted for segregating from	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade	No proposal	Nil	No proposal in Mining Plan.
3j	Provision of drilling & blasting in mineral benches	The combination of deep hole drilling and blasting is to be done for ROM production	As per proposal.	
3k	Provision of mining machineries in mineral benches	Excavator- 2 nos Tippes- 6 nos	Excavator-2 nos Tippes- 6 nos	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in	Yes Height – 6 m (Maximum) Width- 12m(Minimum)	Height- 6 m Width-12 m	
3m	Total area covered under	14.632	14.0260	
3n	Ore to OB ratio for the pit/mine during the year	1:0.03	1:0.05	
3o	Total area put in use under different heads at the end of year	1. Mining- 0.370 hect 2. Top soil- 0.234 hect 3. Mineral reject- 0.172 hect	1.Mining-0.270 hect 2. Top Soil- 0.1hect 3. Mineral Reject- Nil 4. Plantation- 0.5	

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3p	Production of ROM mineral during the last five year period as applicable. (t)	2018-19 to 2021-22 (350132 t)	2018-19: 139425 2019-20: 167190 2020-21: 172345 2021-22: 183528 22-23(July 21 st , 14016	Production from 2018-19 to 2022-23
3q	General remarks of inspecting officer on method of			

3. Solid Waste Management-Dumping(2021-22)

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Top soil: 7000 cum OB: Nil	Top soil- 200 cum OB: Nil	As per availability.
4b	Location of topsoil, OB & mineral reject dump	E/W: -1574, -1602 N/S: -1140, -1200	E/W: -1574, -1602 N/S: -1140, -1200	
4c	Number of dumps within lease area and outside lease area	01	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	E/W: -1574, -1602 N/S: -1140, -1200	E/W: -1574, -1602 N/S: -1140, -1200	
4e	Number of active & alive dumps	01	01	
4f	Number of dead	Nil	Nil	
4g	Number of dumps stabilized	No such proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	Maintenance and de-silting	Being complied	
4j	Number of settling ponds	Maintenance and de-silting	Being complied	
4k	Specific comments of inspecting officer on waste dump			

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4. 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	No such proposal	Nil	
5b	Area under backfilling of mined out area	No such proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No such proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No such proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc			

5. 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-	Yes	Annual report on PMCP has been submitted under 26(2) of MCDR, 2017 in time.	
6b	Area available for rehabilitation (ha)	Nil	Nil	
6c	Afforestation done (ha)	0.5	0.5	
6d	No. of saplings planted during the year(2021-22) (2020-21)	800 800	800 800	
6e	Cumulative no. of plants- 2 Years	1600	1600	
6f	Any other specific method of rehabilitation	Nil	NA	
6g	Cost incurred on watch & care during the year	Proposed	Not maintained	

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for	No provision in Mining plan.	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling	No provision in Mining plan.	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the	No provision in Mining plan.	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making	No provision in Mining plan.	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling	No provision in Mining plan.	Nil	
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	0.5 hectots	0.5 hectars	Plantation
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	0.5 hectots	0.5 hectars	Plantation
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation			
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly Monitoring should be done.	Quarterly Monitoring of environmental parameters have been done by third party.	SV Enviro Labs & Consultants, Vishakhapatnam
6q	General remarks of inspecting officer on PMCP compliance & progressive closure			Violation letter has been issued under rule MCDR,

6. Mineral Conservation:

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM production: 350132 (t)	ROM production: 183528 (t)	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	Below 35% of CaO: Waste/ OB 35% to 42 % Cao: Sub Grade Above 42 % CaO: Cement grade	Below 35% of CaO: Waste/ OB 35% to 42 % Cao: Sub Grade Above 42 % CaO: Cement	Cement grade and Sub grade are segregated from ROM and made Stack separately.

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7d	Any beneficiation process at mines			
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			

7. Environment:

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	7000 cum	200 cum	420 cum used for plantation purpose.
8b	Concurrent use or storage of topsoil	Top soil dump should be maintained	Being complied.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal of O.B. Excavation in Mining plan.	No proposal of O.B. Excavation in Mining plan.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original	No proposal in Mining Plan.	Nil.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal in Mining Plan.	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	800 nos of saplings to be planted within ML area.	800 nos of sapling has been planted inside ML area.	
8g	Survival rate	---	80 %	
8h	Water sprinkling on roads to control airborne dust	Regular water sprinkling at haul road has been proposed to suppress the dust	water sprinkling at haul road is being done to suppress the dust pollution.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			

8. Compliance of Rule 45 (2020-21)

S.N.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly return(F1) and annual return (H8) should be submitted in time.	Monthly return(F1) and annual return (H8) has been submitted in time.	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information of Mining Engineer and Geologist have been shown in annual return FY 2021-22.	Found in order.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1.Mining- 0.370 hect 2.Top soil- 0.234 hect 3.Mineral reject- 0.172 hect 4. Plantation- 0.5 hectars	1.Mining- 0.270 hect 2.Top soil- 0.1 hect 3.Mineral reject- Nil 4. Plantation- 0.5 hectars	Less production
9d	Scrutiny of Annual return on Afforestation	Plantation: 800 Sapling	Found in order.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No proposal	640 cum	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM opening Stock : Nil ROM Production : 183528 T	Found in order.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost etc.	Ex Mine price: Rs 300	Mining cost: 129.40 Exploration cost: 0.6 Over head cost: 64 Royalty: 80 DMF and NMET: 26 Total: Rs 300/ Tonne of production.	
9h	Scrutiny of Annual return on fixed assets	NA	10 lakhs (VFD room, urinal, Rest shelter etc)	
9i	Scrutiny of Annual return on mining machineries	Excavator- 02 nos Tippers- 06 nos	Excavator- 02 nos Tippers- 06 nos	

Details of violations observed during current inspection and compliance position of earlier violation pointed

out:- **Violation letter has been issued under rule 11(1), 48 & 54(c) of MCDR, 2017**

Date: 06.12.2022

Signature