

MCDR INSPECTION REPORT 2019-20

1.0 GENERAL:

SN	Particulars	Details
1	Name of inspecting office & designation	Shri. R.K. Das Senior Asst Controller Of Mines Indian Bureau of Mines, Raipur
2	Accompany with Mine Officials	Mr. PP Pandey (Deputy General Manager) Mr. Shishir Gour(Geologist)
3	Date of inspection	19.01.2021
4	Name of the Mine	Nandini Kundini Limestone Mines
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest Land- Nil Non Forest Land- 53.57 Ha Total Lease area- 53.57 Ha
6	Mine Code	38CHG05024
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/18805/2014
8	Name of the lessee, Address, phone, email and fax number	M/s ACC Limited Address: Jamul Cement Works, PO Jamul Bhilai C.G Mobile no. 7024136362 Phone: 7882285581-84 Fax: 7882382585 Email: pinaki.pandey@acclimited.com
9	Village	Nandini Kundini
10	Taluka / Mandal / District	Dhamdha, Durg
11	State	Chhattisgarh
12	Post office & PIN	490036
13	Nearest police station	Nandini
14	Nearest Railway station	Power House Bhilai
15	Date of Grant of Mining Lease	Govt. letter no. F 18/2004/12 dated 05.02.2008 granted for 30 Years
16	Date of Execution	Executed: 02/12/2008 Lease granted for a period 02/12/2008 to 01/12/2038 Supplementary lease agreement made on 21/12/2016 up to 01/12/2058 (50 years) as per MMDR act 2015.
17	Date of opening of Mine	20/09/2016
18	Date of first Renewal, if applicable and its period & expiry	NA
19	Date of second Renewal, if applicable and its period & expiry	NA
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Name: Mr. Sridhar Balakrishnan Designation : CEO of ACC Limited DOA: 21.02.2020, b.sridhar@acclimited.com, Address: 121, Maharshi Karve Road Mumbai - 400 020, India

		Phone: 02241593507 Fax: 02266317431
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Name: Mr. Vaibhav Dixit, Designation: Director Plant DOA:01-07-2018, Address: ACC Jamul Cement Works Bhilai Durg C.G- 490024, Vaibhav.dixit@acclimited.com Phone: 7882285581-84,Fax: 7882282585
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Pinak Pani Pandey Designation: Deputy General Manager Mines DOA:20.09.2016, Address: ACC Jamul Cement Works Nandini Kundini Mines, Dhamdha, Durg C.G-490036 Mob: 7024136362, pinaki.pandey@acclimited.com
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Subramani Venkatesh, Designation: Mining Engineer Qualification: BE Mining, DOA:28.09.2019 Work Experience: 12+ Years Address: ACC Jamul Cement Works Nandini Kundini Mines, Dhamdha Durg C.G-490036,Mob: 7471116120 Subramani.venkatesh@acclimited.com
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Mr. Shishir Gaur,Designation: Geologist Qualification: Msc Geology,DOA:20.09.2016 Address: ACC Jamul Cement Works Nandini Kundini Mines, Dhamdha Durg C.G-490036,Mob: 7738368632 shishir.gour@acclimited.com

26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modified Mine plan approval letter no: Durg/Chup/Kyo-1114/2017-Raipur dated 17/10/2017 For the period :2018-19 to 2022-23
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	1.03 Mio.T up to 01/12/2058
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	BG No.: 1637617BG0000792 dated 07/10/2017 Amount: Rs. 80,25,000/- Guarantee Cover from: 07/10/2017 to 31/03/2023 Last date of Lodgement of Claim: 31/03/2023

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration:

SN	Item	Proposals	Actual work	Remarks
1a	Back log of previous year	F.Y. 2019-20: Nil	F.Y. 2019-20: Nil	Entire lease is explored

				under G1 Category.
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Category:53.57 Ha	Under G1 Category: 53.57Ha	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	NA
1e	Balance reserves as on 01.04.2020 (in Million Tonnes)	Under (111): 42.72 Million Tonnes Under (211): 8.95 Million Tonnes	Under (111): 42.86Million Tonnes Under (211): 8.95Million Tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lease area is explored under G1 Category with 33 no. boreholes and maximum depth of borehole is 84.5m		

2.0 Development:

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	From UTM Coordinates: 2364372N, 539890E & 2364370N 540070E to 2364473N 539891E & 2364468N 540043E between section SL2 to SL3	Broadly within proposed area	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	OB Bench:3m Lst Bench: 7m	OB Bench:2m Lst Bench: 6-7m	
2c	Stripping ratio or ore to OB ratio	1:0.15	1:0.11	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	73383	49054	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development is broadly as per proposal but on lower side w.r.t. proposal.		

3.0 Exploitation:

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	505522MT	453473MT	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject	Nil	Nil	

	generation			
3e	Grade of mineral reject generation and threshold value declared	NIL	NIL	
3f	Quantity of sub-grade mineral generation	NIL	NIL	
3g	Grade of sub-grade mineral generation	NIL	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Yes Wagon Drill Dia:115mm Spacing:3.0m Burden: 2.5m Depth:7.0m	Yes Wagon Drill Dia:115mm Spacing:3.0m Burden: 2.5m Depth:6-7.0m	
3k	Provision of mining machineries in mineral benches	Backhoe-03 Dozer-01 Dumper-21	Backhoe-03 Dozer-01 Dumper-21	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes OB/Top soil-Nil Mineral-6m to 7m	Yes OB/Top soil-Nil Mineral-6m to 7m	Top Soil is scraped with dozer
3m	Total area covered under excavation/pits	19.49 Ha upto the end of plan period 2022-23.	14.164 Ha upto period 2019-20	
3n	Ore to OB ratio for the pit/mine during the year	1:0.14	1:0.11	
3o	Total area put in use under different heads at the end of year	Pit-19.49 Ha OB/Dump-5.66 Ha Infra/road-0.48Ha Other(plantation)-1.12 Ha up to 2022-23	Pit-14.164 Ha OB/Dump-2.915 Ha Infra/road-0.48Ha Other- 0.865 Ha Up to 2019-20	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2015-16: 150535 MT Yr- 2016-17: 1030000 MT Yr- 2017-18: 1030000 MT Yr-2018-19: 506519MT Yr-2019-20: 505522MT	Yr- 2015-16:NIL Yr- 2016-17: 31.70MT Yr- 2017-18:31537.5 MT Yr-2018-19:263966MT Yr-2019-20:453473MT	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is broadly as per proposal, opencast working with shovel tipper combination.		

4.0 Solid Waste Management-Dumping:

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Top soil generated is of meagre quantity which shall be utilized for plantation purpose, over the OB dump.	Top soil generated is of meagre quantity which is utilized for plantation purpose, over the OB dump.	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Along the lease boundary between pillar no. 31 to 34 21 ⁰ 23'08.40" & 81 ⁰ 23'10.91" to 21 ⁰ 23'06.88" & 81 ⁰ 23'13.81"	Broadly as per proposal	
4c	Number of dumps within lease area and outside lease area	WML-Active dump-01 OML-Nil	WML-Active dump-01 OML-Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Towards Northern part of the lease within the ultimate pit limit.	Towards Northern part of the lease within the ultimate pit limit.	Green Belt development.
4e	Number of active & alive dumps	01	01	
4f	Number of dead dumps	NA	NA	
4g	Number of dumps stabilised	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	NA	NA	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management	The mine is very new and starts production and dispatch mainly from 2017-18 and no major dump observed.		

5.0 Solid Waste Management-Backfilling:

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No	No	No Backfilling proposal
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Top soil to be used for plantation over the bund along the periphery of mine lease boundary for green belt	Being done	

		development.		
5d	Total area fully reclaimed & rehabilitated	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area not matured for backfilling.		

6.0 Progressive Mine Closure Plan:

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.	Yes Plantation proposal for the year (2019-20)-300 nos	Yes Plantation achieved during (2019-20)-552 nos.	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	1) NA 2) 1.12Ha upto 2022-23 3) 300 nos 4) - 5) NA 6) -	1) Nil 2) Achieved 0.865Ha upto 2019-20 3) 552 4) 3893 nos 5) NA 6) F.Y. 2019-20: 4.59/- Lakh	Plantation carried out over the bund along the periphery of the lease boundary.
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	NA	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	1) NA	1) NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for regular monitoring of Ambient air, water quality and noise vibrations.	Being done as per proposal.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Nil		

7.0 Mineral Conservation:

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	Direct ROM mineral dispatch from mines pit without sorting.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No mineral sorting done; Mechanical-ROM dispatch	No mineral sorting done; Mechanical-ROM dispatch	
7c	Different grade of mineral sorted out at mines	NA	NA	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The crusher plant is near Cement plant at Jamul which is approx 20 km from mine and therefore ROM is dispatch from mine area.		

8.0 Environment :

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Top soil to be used for plantation over the dump along the periphery of mining lease, non mining zone.	Being carried out as proposed.	
8b	Concurrent use or storage of topsoil	To be used for plantation along the boundary within non mining zone.	Being carried out as proposed.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Overburden to be utilized for dump towards the northern part of the lease as per mine plan.	Being done as proposed in mine plan	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	300 no. Plantation on WML has been proposed in the mining plan for the year 2019-20	552 no. Plantation has been carried out during the year 2019-20 along the lease boundary.	
8g	Survival rate	Not mentioned specifically	86%	
8h	Water sprinkling on roads to control airborne dust	Yes	Dust suppression by water tanker	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The lessee as per proposal complied all environment protection measures i.e. plantation, water sprinkling for dust suppression, monitoring of Air, water, noise, etc therefore no such adverse impact observed on aesthetic beauty in and around mines area.
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9.0 Compliance of Rule 45:

S.N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – Dec 2020 A.R. submitted upto -- 2019-20	

S.N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines manager Shri. Pinak Pani Pandey, Mining Engineer: Shri. Subramani Venkatesh, Geologist: Shri Shishir Gaur, Geologist.	All were present during mine inspection	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 14.164 Ha OB storage: 2.915 Infra & roads: 0.48 Ha Others (plantation): 0.865Ha Upto 2019-20	Pit: 14.164 Ha OB storage: 2.915 Infra & roads: 0.48 Ha Others (plantation): 0.865Ha Upto 2019-20	
9d	Scrutiny of Annual return on Afforestation	WML- 300 Nos. For 2019-20		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price & Cost of production is Rs.274.34/mt	Cost of production is Rs.274.34/mt	
9i	Scrutiny of Annual return on fixed assets	Fixed asset under Rs 36968801/-		
9k	Scrutiny of Annual return on mining machineries	Information furnished	Nil	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - The Earlier violations taken compliance and during present inspection no serious violation observed.

(Rajesh Kumar Das, Senior Assistant Controller of Mines)