

MCDR INSPECTION REPORT

1.0 GENERAL

Sl.N	PARTICULARS	DETAILS
1	File No.	CHG/KWA/Lst-4/ Raipur
2	Name & Designation of the inspecting officer	Shri D.Dash Senior Mining Geologist
3	Date of Inspection	06/05/2022 (MCDR Inspection)
4	Date of Last Inspection & Officer	30.01.2020 Shri Shaval Kartikeya, Jr Mining Geologist
5	Accompanying mine personnel	Shri Sanjay Kumar Sahu, Manager (Mines)
6	Name of the Mine	Manpur Limestone Mine
7	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non- forest: 12.145 hect .Forest Land: 00.00 hect. Total Land: 12.145hect.
8	Mine code	38CHG09001
9	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4800/2011
10	Name of the lessee, Address, phone, email and fax number	M/S Jayaswal Neco Industries Ltd. F-8, MIDC Industrial Area, Hingna Road, Nagpur, Marashtra, Pin code- 440016
	Village	Manpur
	Taluka/Mandal	Sahaspur Lohara,
	District	Kabirdham
	Pincode	491441
	State	Chhattisgarh
	Post office	Singhangarh
11	Nearest police station	SahaspurLohara
12	Nearest Railway station	Rajnandgaon
13	Date of Grant of Mining Lease	22.06.1999
14	Date of Execution	18.10.2000
15	Date of opening of Mine	25.09.2016 (Re-opening of mines)
16	Weekly day of rest	Thursday
17	Date of first Renewal, if applicable and its period & expiry	As per MMDR 2015 lease agreement period on 06.12.2018 for another 30years which is valid up to17.10.2050.
18	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Meghpal Singh, Executive Director, Steel Plant Division) Address : Siltara Growth Centre, Siltara Raipur(Chhattisgarh)-493111, Phone-07721-264241, mobile: 9109119120 Email :- meghpal.singh@necoindia.com

		Date of appointment—17.11.2014
19	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Damrudhar Patel, M/s Jayaswal Neco Industries Ltd, Siltara-Raipur, Chhattisgarh, Email— damrudhar.patel@necoindia.com , PH-07721/264241/264263, Fax-07721/264279, Mobile no - 9109119097, Date of Appointment— 12.01.2016
20	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Sanjay Kumar Sahu, M/s Jayaswal Neco Industries Ltd, Village-Manpur, Tehsil-Sahaspur Lohara, District-Kabirdham, Email— mines.manpur@necoindia.com , Mobile no -9109118929, Date of Appointment—02.07.2018
21	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Sanjay Kumar Sahu, Qualification: B.E Mining+15yrs experience), M/s Jayaswal Neco Industries Ltd, Village-Manpur, Tehsil-Sahaspur Lohara, District-Kabirdham, Email— mines.manpur@necoindia.com , Mobile no -9109118929' Date of Appointment – 02.07.2018
22	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Sunil Kumar Paul, Qualification: MSC(Geology), Experience:+40years. Shri Sanjay Kumar Sahu Qualification: BE (Mining Engineer, +15yrs experience)
23	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modified Mining Plan was approved by IBM vide letter dated 08.01.2018 for the year 2018-19 to 2022-23.
24	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
25	Mineral(s) granted in lease and proved for mining	Limestone
26	Method of Mining (Opencast, Underground)	Opencast
27	Category (Fully Mechanized, Others or Manual)	Category-A, (Fully Mechanized)
28	Captive/Non-Captive	Captive mine
29	EC for ROM Prod: Date of Issue:	EC is granted for 78000 tons per annum for limestone

		mining. CECB granted consent which is valid upto 02.07.2025
30	FA amount Rs Valid up to:	The lessee has submitted Financial Assurance of Rs. 14, 58,720 by way of bank guarantee and balance amount of Rs 972480 on 01.02.2022 which is valid upto 30.09.2023.

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

1.0 EXPLORATION

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
1a	Backlog of previous year	Nil	Nil	No future exploration proposed in approved document.
1b	Exploration over lease area for Geological axis 1 or 2.	Not specific	G1: 8.3048 Ha G2: 3.8402 Ha	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not specific	Lessee	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	G1- 3.84 Ha	
1e	Balance reserves as 01.04. 2021 (million tonnes)	111: 1.082 211: 3.704 222: 2.4	111: 1.377 211: 3.704 222: 2.4	
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration in form of 8 vertical borehole have been drilled up to 25m depth at grid interval of 100x100m grid interval and considered to be of G1 scale exploration covering an area of 8.304 ha. Beyond G1 scale explored zone, 200m influence has been considered to delineate G2 exploration zone of 3.84 ha. Although, no further exploration proposed in approved document, the lessee needs to carry out further exploration to cover the remaining area of 3.8402 ha under G1 scale of exploration.		

2.0 DEVELOPMENT

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
2a	Location of development w.r.t. lease area	Bench level 318m to 315m, 3m height, 13000 Sqm, co-ordinate: 21°44'14.00''N to	Bench level 318m to 315m, 3m height, 12850 Sqm, co-ordinate:	Development quarry as proposed.

		21°44'17.55''N & 81°11'25.33''E to 81°11'30.94''E	21°44'16.635''N to 21°44'15.1542''N & 81°11'24.5548''E to 81°11'30.9052''E	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Top soil /overburden available as such.	No Top soil /overburden available as such.	No Top soil /overburden available
2c	Stripping ratio or ore to OB ratio	1:0.00	1:0.00	
2d	Quantity of topsoil generation in Tonnes	Nil	Nil	No top soil generation.
2e	Quantity of overburden generation in m ³	Nil	Nil	No OB generation from the mine.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development of quarry is as per proposals in the approved document. Although, the development is on the lower side due to less demand from the captive steel plant.		

3.0 EXPLOITATION

S.N.	ITEM	PROPOSAL (2020-21)	ACTUAL WORK (2020-21)	REMARK
3a	Number of pits proposed for production	01	01	As proposed.
3b	Quantity of mineral production proposed	97500 T	20080 Tonne	Production is less due to less demand from captive plant.
3c	Recovery of saleable/usable mineral from production	97500 T	20080 Tonne	do
3d	Quantity of mineral reject generation	Nil	Nil	No generation of mineral rejects.
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	No reject generation observed.
3f	Quantity of sub-grade mineral generation	7800 T	Nil	No sub-grade generation from the mine. Violation of Rule 11 (1) of MCDR, 2017 is pointed out.
3g	Grade of sub-grade mineral generation	CaO < 34%	CaO < 34%	

		MgO>4%	MgO > 4%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Proposal has not been given in approved Mining Plan	NA	Not required for Limestone.
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Two nos Wagon drill- 10 mtr/hour, Two nos Portable air compressor of 400 cfm, Two nos of Excavator of 2.6CUM, one no of pay loader One no of Rock breaker, One no of Ripper dozer, Four nos of Dumper, One no of water tanker with 10KL, Two nos of diesel operated water pump of 5 HP, Crusher & Screen unit of 50TPH	Front End Loader 1 CUM-1No One no of water tanker with 3 KL Crusher & Screen unit of 50 TPH Back Hoe of 0.6 CMT Jeep -64 HP Dumper-6 CUM-1 No	Found in use in the mine.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height in Mineral proposed for 6 Meter	Height in Mineral has been kept as 3 to 6m Meter at present	Height maintained up to 6m after drilling up to 3m in two slices.
3m	Total area covered under excavation/pits	2.800 Hectares	1.632 Hectares	Area degradation is less due to less production from the mine.
3n	Ore to OB ratio for the pit/mine during the year	1:0.0	1:0.0	Ass proposed.
3o	Total area put in use under different heads at the end of year	4.8624 Hectares	3.694 ha	Lad use on lower side due to less development due to low demand for the mineral.
3p	Production of mineral during last Three	2017-18 - 97500T	12716 T	The production

	-year period, as applicable (tones)	2018-19 - 95885T	26826 T	is less due to lack of requirement from captive plant.
		2019-20 - 97500T	30858 T	
		2020-21 - 97500T	20080 T	
		2021-22 - 97500 T	29788 T	
3q	General remarks of inspecting officer on method of mining etc.	The pit is developed at the proposed site. Although development of quarry is on the lower side due to less production demand from the captive steel plan. Height of the benches are maintained from 3m to 6m as proposed in approved document.		

4.0 SOLID WASTE MANAGEMENT-DUMPING

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	2020-21: No generation of waste envisaged. No separate dump proposed. 2021-22: no waste dump proposed	2020-21-0.00 Ha 2021-22- 0.00 Ha	No waste generation reported from the mine.
b	Location of topsoil, OB & mineral reject dumps	Top soil-Nil Mineral reject-NIL Waste dump : Nil	Top soil-Nil Mineral reject-Nil Waste dump : Nil	No waste dump observed during the visit.
4c	Number of dumps within lease area and outside lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Nil	
4e	Number of active & alive dumps	Nil	Nil	
4f	Number of dead dumps	Nil	Not Applicable	
4g	Number of dumps stabilized	NIL	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Nil	
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting	No top soil or waste generation envisaged in approved Mining Plan		

officer	nor reported during the period.
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5.0 SOLID WASTE MANAGEMENT-BACKFILLING

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Proposed in approved document	Area not matured for backfilling	No area is mined out.
5b	Area under backfilling of mined out area	Not Proposed	NA	Reason as above.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Top soil within existing quarry	NA	No area is mined out.
5d	Total area fully reclaimed & rehabilitated	Not Proposed	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mining operations in the area is in incumbent stage. No area is mined out . Thus, there is no scope of backfilling or rehabilitation at present.		

6.0 PROGRESSIVE MINE CLOSURE PLAN

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	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.	As per 26(2) of MCDR 2017 the annual report has to be submitted	Not Submitted.	Violation of Rule 26(2) of MCDR, 2017 is pointed out.
6b	Management of worked/mined out benches	Not proposed	Nil	No area is mined out.
	i) Area available for rehabilitation (ha)			
	ii) Afforestation done (ha)	0.096	0.319	Plantation done with very low rate of survival.
	iii) No. of saplings planted during the year	60 saplings over 0.024 ha	220 saplings	As reported in Annual Return

		area per year		
	iv) Cumulative no. of plants	240	540	Plantation done in front of office area in excess of proposal.
	v) Any other specific method of rehabilitation	- do--	- do--	
	vi) Cost incurred on watch & care during the year	Not specific	- do--	
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	Nil	Nil	No area is matured for backfilling.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation		i) 220 ii) 0.06ha iii) Plantation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for Compliance of Environmental monitoring in Core and buffer zone	The monitoring of Air, Water and noise on regular interval is being carried out as per condition imposed by CECB	
6f	General remarks of inspecting officer on PMCP compliance & progressive	The mining operations is at initial stage. No area is matured for rehabilitation.		

7.0 MINERAL CONSERVATION

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM sizing is done by	ROM sizing is done by	Done as proposed.

		crushing and screening	crushing and screening	Beneficiation is not required for Limestone.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	sizing is done by crushing	
7c	Different grade of mineral sorted out at mines	cement grade – Avg 42% CaO and MgO 3% on an average	cement grade – Avg 42% CaO and MgO 3% on an average	
7d	Any beneficiation process at mines	As per approved document the beneficiation process At mines is not proposed	Not done.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM directly feed into the crusher and no beneficiation is required. The crusher generated fines are stacked beside the crusher.		

8.0 ENVIRONMENT

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil is negligible.	No top soil generated	No restoration or rehabilitation of area affected by mining operations is done, since mining operations is active and no area is mined out.
8b	Concurrent use or storage of topsoil	Not Applicable.	Top soil whenever generated are used for plantation purpose.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate stack area for sub-grade is proposed.	Crusher fines are stacked besides the crusher.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	As per Approved document the sub-grade mineral shall be utilized after	sub-grade is blended with high grade minerals.	

		blending with higher grade.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Not Applicable. At present it is active mine and lime stone is being excavated.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed @ 60 saplings/ 0.024ha per year over non mining zone towards western part of lease area.	About 540 saplings have been planted in safety zone area and over non mining zone towards western part of lease area.
8g	Survival rate	50%	30%
8h	Water sprinkling on roads to control airborne dust	Yes proposed.	Being done on regular basis.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The mining operations have been carried out on low scale. So, aesthetic beauty of the area is mostly undisturbed.	

9.0 COMPLIANCE OF RULE 45

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9 a	Status of submission of monthly and Annual returns	Monthly return for the month of April 2022 on 09.05.2022 and Annual Return submitted on 26.06.2021	The officials were present during the field visit.	Information is correct.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager: Shri Sanjay Kumar Sahu Mining Engineer: Shri Sanjay Kumar Sahu Mining Geologist: Shri Sunil Paul	Information is correct.	The officials were present during the visit.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area Under Pit: 1.632 Hectares. Occupied by plant, building & Roads: 0.535 ha, Others like mineral storage etc- 1.527 Ha	Information on others like mineral storage is correct	Violation of 45 (c) of MCDR, 2017 is pointed out.
9d	Scrutiny of Annual return on afforestation	Nos of plantation during the yr .within lease area-220 and out of lease area -130	Appears to be correct.	However, very limited plants were observed

		nos.		during the visit due to low survival.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	0.00 T Quantity,	Appears to be correct.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock: 486.410 T ROM Production – 20080 T, Dispatch:20480.11 T Closing Stock: 86.300 T.	Appears to be correct.	Low stack of mineral observed during the visit.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production -Rs. 638 (it's a captive mine)	Appears to be incorrect. Since over head cost is cited as Rs 234.	Violation of Rule 45(c) of MCDR, 2017 is pointed out.
9i	Scrutiny of Annual return on fixed assets	Value of Fixed Assets: Rs 5991360	Appears to be correct.	
9k	Scrutiny of Annual return on mining machineries	Crusher 50tonne cap: 01 Front end loader (1.1 cum cap): 01 Backhoe (0.720 cum cap): 01 Tipper (6 cum): 01 Tractor (64HP): 01 Water tanker (300litres): 01	Appears to be correct.	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: -Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का ब्यौरा
11 (1)	Based on 80% recovery of Limestone from mineralised zone, yearly 20% sub-grade fines generation and its stacking was envisaged in approved Mining Plan. A quantity of 19,500 tonnes of sub-grade fines was envisaged to be generated during the year 2020-21. Against such proposal, no such generation and its stacking is reported.
26(2)	A yearly report as per the format specified by the Indian Bureau of Mines, before 1 st day of July every year setting forth the extent of protective and rehabilitative works carried out as envisaged in the approved mine closure plan has not been submitted for the year2020-21.

45(5)(c)	In annual return for financial year 2020-21 following discrepancies are observed; i. At Part I : laduse information is furnished incorrectly. ii. At part-V (General Geology & Mining), updated reserves and resources at the end of the year are furnished incorrectly. ii. At Part VII: Cost production is furnished incorrectly.
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During the previous inspection on dated 30.01.2020, violations of Rule 26 (1), 46 and Rule 45(7) were pointed out. The violations pointed out are complied.

Date:

(D.Dash)

Senior Mining Geologist