INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Gandhinagar regional office

Mine file No : RAJ/CHT/LST-5 Mine code : 38RAJ09002 Name of the Inspecting : GQ21) DATA RAM GURJAR (i) Officer and ID No. (ii) Designation : Sr. Asst. Contrl. Mines (iii) Accompaning mine : Sh. Peeyush Kumar Ameta, Mine Manager Official with Designation (iv) Date of Inspection : 25-NOV-22 Prev.inspection date : 22-SEP-21 (v) PART-I : GENERAL INFORMATION 1. (a) Mine Name : KARUNDA (b) Registration NO. : IBM/418/2011 (C) : A Mechanised Category (d) Type of Working : Opencast Postal address (e) State : RAJASTHAN District CHITTORGARH : Village : KARUNDA Taluka : NIMBAHERA Post office : KARUNDA : 312617 Pin Code FAX No. : 01477-220027,220562 E-mail : manish.toshniwal@jkcement.(: 01477-220087 Phone : Nimbahera sadar (f) Police Station First opening date : 06-MAR-85 (g) Weekly day of rest (h) : WED 2. Address for : VILLAGE& POST-KARUNDA correspondance **TEH-NIMBAHERA** DISTT-CHITTORGARH 3. : RAJ0006 Lease Number (a) (b) Lease area : 240.86 Period of lease : 50 (C) (d) Date of Expiry : 12-DEC-34 Mineral worked 4. : LIMESTONE Main

Termination date Geologist Name : Kapil vasita,Full Time Qualification : Msc.Geology Appointment/ : 07-JUL-15 07-JUN- Termination date Geologist Name : Ashish Dabi,Full Time Qualification : MSC Geology Appointment/ : 10-JUN-22 Termination date Geologist Name : Miss Khushbu,Full Time Qualification : M Sc (Applied Geology)	Lessee	:	J.K.Cement Works	
Owner : Ajay Kumar Saraogi J.K. Cement Ltd Kamla Tower, Kanpur KANPUR URBAN UTTAR PRADESS Phone: 0512 - 2311478 FAX : 0512 - 2364250 Agent : Manish Toshniwal J K Cement Works Kailash Nagar, Nimbahera CHITTORGARH RAJASTHAN Phone: 01477-20087,220562 FAX : 01477-20087,220 Mining Engineer Name : Peeyush kumar ameta,Full Time Qualification : Diploma mining, & AMIE Appointment/ : 06-MAR-13 Termination date Geologist Name : Sh. Prashant Tiwari,Full Time Qualification : MSC Geology Appointment/ : 07-JUN-19 06-AUG- Termination date Geologist Name : Kapil vasita,Full Time Qualification : MSC.Geology Appointment/ : 07-JUN-15 07-JUN- Termination date Geologist Name : Ashish Dabi,Full Time Qualification : MSC Geology Appointment/ : 10-JUN-22 Termination date Geologist Name : Miss Khushbu,Full Time Qualification : M Sc (Applied Geology) Appointment/ : 02-AUG-21 10-JUN- Termination date Manager Name : P.K.AMETA Qualification : DIP. MINING & AMIE Ist CLASS			CHITTORGARH RAJASTHA	
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Manager		
Name	:	Shri R C Purohit
Qualification	:	Diploma in Mining AMIE FCC
Appointment/ Termination da		06-MAY-09 06-MAR-15

6. Date of approval of Mining Plan/Scheme of Mining
6. Date of approval of Mining
7. Existing rule 11 MCDR1988
7. MAR-03
Mining Scheme rule 12 MCDR1988
7. JUN-07
Modif.of approved Mining Plan
Mining Scheme rule 12 MCDR1988
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Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog of previous year 2020-21.	N/A	Nil
1b	Exploration over lease area for geological axis 1 or 2	2021-22: Core boreholes 27 Nos. (2250 mts.)	During 2021-22: Drilled 27 Nos. of Boreholes (3066 mts.)	Nil
lc	Exploration Agencies and Expenditure in lakh rupees during the year	Departmently (Lessee Himself) & M/s Synergy Geotech Private Ltd., Nagpur Expenditures- Not specified	Departmently (Lessee Himself) & M/s Synergy Geotech Private Ltd., Nagpur Expenditures- Rs. 4.538	12 Nos. of Boreholes by M/s Synergy Geotech Pvt. Ltd & 15 Nos. Departmentally(by lesee himself)
1d	Balance area to be explored to bring Geological axis in 1 or 2	It was proposed that entire lease area will be explored under G1 level up to year 2021-22.	Entire lease area has been explored under G1 level up to year 2021- 22.	Nil
1e	Balance reserve as on 01/04/20	No specific proposal given in this reagrd.	As on 01.04.2022 Proved Mineral Reserve (111) - 90.809 Mill. Tonnes, Probable Mineral Reserve (121) - 2.96 Mill. Tonnes & (122) - 7.726 Mill. Tons	Nil
lf	General remarks of inspecting officers on geology, exploration etc			No issue observed related to Geology & Exploration.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	namely North	Two pits namely North Pit & South Pit	Nil

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes as per proposal	Nil
2c	Stripping ratio or ore to OB ratio	Year 2021-22: 1 : 0.04	Year 2021-22: 1 : 0.024	Ton:Ton
2d	Quantity of topsoil generation in m3		2021-22: 5258.74 Cu.m. (7520 Tonnes)	Nil
2e	Quantity of overburden generation in m3		Waste (Interstitial clay) -38461.54 Cu.m (or 55000 Tonne) & Nil from exisiting dump	No OB generated during the year. Only IB (Interstitial clay waste) generated during the year 2021-22.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development work is satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Тwo	Тwo	Nil
3b	Quantity of ROM mineral production proposed	ROM - 30,80,960.42 Tons	(Limestone - 22,62,573.10 Tons & Nil from operation of existing dump, Subgrade-	Nil

3c	Recovery of sailable/usable mineral from ROM production	2021-22: Limestone - 29,00,000.42 Tons & 20,000 Tons from operation of existing dump	2021-22: Limestone - 22,62,573.10 Tons & Nil from operation of existing dump	Nil
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3е	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	Nil
3f	Quantity of sub grade mineral generation.	2021-22: 1,60,960 Tons	2021-22: 15,000.32 Tons	Nil
3g	Grade of sub grade mineral generation	CaO 39.8 MgO 0.80	CaO 37.21 MgO 0.60	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Method	Mechanised Method	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	Not applicable	NIl
3j	Provision of drilling and blasting in mineral benches	Yes, drilling will be done by LM-100 (IR) (4 - 4.5 inch dia), DTH drills holes will be blasted by explosive (Kelvex 600 and ANFO).	Being done as per proposal.	Nil
3k	Provision of mining machineries in mineral benches	Yes by using HEMM i.e. Hyd. Excavator, Drill Machines., Dozer, Tipper etc.	Yes by using HEMM i.e. Hyd. Excavator, Drill Machines., Dozer, Tipper etc.	Nil

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes as per proposal.	Nil
3m	Total area covered under excavation/pits	66.338 Hects.(As on 31.03.2022)	63.81 Hects. (as on 31.03.2022)	Nil
3n	Ore to OB ratio for the pit/mine during the year.		2021-22: 1 : 0.024	Ton: Ton
30	Total area put in use under different heads at the end of year	80.529 Hects. (As on 31.03.2022)"	76.948 Hects. (As on 31.03.2022)"	Nil
3р	Production of ROM mineral during the last five year period as applicable	2017 - 18: 1974930.03 Tons, 2018 - 19: 4085982.32 Tons 2019 - 20: 2530759 Tons 2020 - 21: 2840144.60 Tons 2021- 22: 3080960.42 Tons 2022 -23: 3600000 Tons	2017-18- 132084.76 Tons, 2018-19- 1513378.52 Tons, 2019-20- 1044149.61 Tons 2020-21- 1979055.42 Tons 2021-22- 2277573.42 Tons 2022-23- 1453519.67 Tons(up to Oct 2022)	Nil
Зq	General remarks of inspecting officers on method of mining etc.			The mine has been developed by mechanised opencast method by using HEMM, which is suitable to the type of deposit.

Sl.No. Item

Propasals Actual work

Remarks

4a Separate dumping Yes, Year 2021-22: Nil of topsoil, OB 2021-22: Top soil -- 7520 Tonnes and mineral Top soil -rejects (Rule 10000 Tonnes , 32,33) Interstitial clay Interstitial /Screen rejects-- 55000 clay / Screen Tons & Nil from existing rejects- 90000 dump, Tons + 30000 Tons from opertion of Mineral Rejects. exisitng dump 15000.32 Tons as Mineral Subgrade Rejects. -160960 Tons (Subgrade) 4b Location of During the year 2021-22 Nil No proposal topsoil, OB and dumping has been carried for storing mineral reject out within proposed Top soil. limit. dumps OB / interstital clay will be stacked in existing dumps Dump-1 --(E/W 461540 -- 461155) (N/S 2731420 -- 2731272) & Dump-2 --(E/W 460368 -- 460247) (N/S 2732148 -- 2731900) Mineral reject dumps -stacked as Subgrade grade material (E/W 461078 -- 460657) (N/S 2731334 --2731115)4c Number of dumps Interstitial Interstitial clay -- 2 Nil within lease clay -- 2 Nos. area and outside Nos. Subgrade -- 3 Nos. of lease area Subgrade -- 3 Nos.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	5 Nos. of dumps (2 Nos. of Interstitial clay dump outside Ultimate pit limit & 3 Nos. of Subgrade stacked dump out of which 1 Nos. within Ultimate pit limit , 1 Nos. lie partial within Ultimate pit limit and 1 no.is out of UPL).	5 Nos. of dumps (2 Nos. of Interstitial clay dump outside Ultimate pit limit & 3 Nos. of Subgrade stacked dump out of which 1 Nos. within Ultimate pit limit , 1 Nos. lie partial within Ultimate pit limit and 1 no.is out of UPL).	Nil
4e	Number of active and alive dumps.		Interstitial clay 2 Nos. Subgrade 3 Nos.	Nil
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	No proposal	Not applicable	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	During the year 2021-22, proposal of retaining wall & garland drain given.	During the year 2021-22, garland drain made & retaining wall was not made.	During the year 2021-22, total 130m retaining wall was proposed at the bottom of the waste dump but no such retaining wall was made during the year, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 13.12.2022.

4i	Length of Retaining wall or garland drain all along dumps	Year 2021-22: Galrland Drain-80m, Retaining Wall-130m	Year 2021-22: Galrland Drain-80m, Retaining Wall-Nil	During the year 2021-22, total 130m retaining wall was proposed at the bottom of the waste dump but no such retaining wall was made during the year, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 13.12.2022.
4j	Number of settling ponds	No proposal	Nil	Nil
4 k	Specific comments of inspecting officer on waste dump management			During the year 2021-22, total 130m retaining wall was proposed at the bottom of the waste dump but no such retaining wall was made during the year, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 13.12.2022.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No backfilling proposal for the year 2021- 22.	Nil	Nil
5b	Area under backfilling of mined out area	No proposal	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For plantation.	For plantation.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal during the year 2021-22.	Nil	Area is not fully matured for reclamation and backfilling.

5e	General remarks	Area is not fully
	of inspecting	matured for
	officers on	reclamation and
	backfilling and	backfilling as
	reclamation etc.	limestone mineral depth is continue.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	It should be submitted up to 1st july for previous year.	Submitted for the year 2021-22.	Timely submission
6b	Area available for rehabilitation (ha) .	2021-22: 1.0 hect	2021-22: 3.15 hect.	Nil
6c	afforestation done (ha).	2021-22: 1.0 hect	2021-22: 3.15 hect.	Nil
6d	No. of saplings planted during the year	2021-22: 1000 nos.	2021-22: 15723 nos.	Nil
6e	Cumulative no .of plants	Not specified	Within Lease 53492 Nos. Outside Lease 1000 Nos.	Up to year 2021-22
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	Rs. 0.75 Lacs	Rs. 5.726 Lacs	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No backfilling proposal	Not applicable	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable	Nil

бj Compliance on No proposal Nil Nil reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area No proposal 6k Compliance on Nil However in pit reclamation and bottom rain water rehabilitation accumulated. by backfilling (iv) Rehabilitation by making water reservoir 61 Compliance on No proposal Nil Nil reclamation and rehabilitation by backfilling (v) any other specific means. 6m Compliance of During the year 2021-22 Nil During the rehabilitation year 2021-22 afforestation has been of waste land afforestation carried over an area within lease 3.15 hect. was proposed (i)afforestation over an area 1 hect. 1.0 hect. 3.15 hect. Nil 6n Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) 60 Compliance of By Plantation By Plantation Nil rehabilitation of waste land within lease (iii) Method of rehabilitation 6p Compliance of As per MOEFCC Regular monitoring is Nil environmental norms. being done as per MOEFCC monitoring (core & SPCB norms. zone and buffer zone) 6q General remarks PMCP Compliances of inspecting is satisfactory. officers on PMCP compliance and progressive closure operations etc.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Usable Limestone for Cement manufacturing 2900000.42 Tonnes (114.24 LSF) & 20000 Tons from operation of existing dump & Stacking of Subgrade material 160960 Tonnes (Cao-39.8%, MgO-0.80%)	2262573.10 Tons (114.91 LSF), Nil (Limestone) from existing dump &	Nil
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Yes. Mechanical	Yes. Mechanical	Nil
7c	Different grade of mineral sorted out at mines.	Usable grade & subgrade	Usable grade & subgrade	Nil
7d	Any beneficiation process at mines	No proposal	None	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue was observed regarding mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	· •	Yes, 7520 Tonnes (Top soil)	Nil
8b	Concurrent use or storage of topsoil	Concurrent use for plantation.	Concurrent use for plantation.	Nil

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No OB generation, however sepearte dumping of IB(Interstial clay) & subgrade mineral was proposed.	As per proposal.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	None	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal for the last year.	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2021-22, total 1000 nos. plants will be planted over an area 1.0 hect.	During the year 2021-22 total 15273 nos. plants planted over an area 3.15 hect within lease area.	Nil
8g	Survival rate	Not specified	90.5%	As per AR 2021-22.
8h	Water sprinkling on roads to control airborne dust	sprinkling was	Water sprinkling was observed.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthetic beauty in and around the mines is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks

9a Status of As per MCDR M.R. Submitted upto Timely returns submission of 2017, MR to be Month of Nov. 2022 submissions. Monthly and submitted up AR Submitted up to year Annual returns to 10 Day of 2021-22. Month & AR to be submitted up to 30 June. 9b Scrutiny of Mining Found correct Nil Annual return Engineer - Sh. for information P.K. Ameta on Mining Engineer, Geologist -Geologist and Ms. Khushboo Manager Manager - Sh. P.K. Ameta 9c Scrutiny of Details given Seems corrected Nil Annual return on in AR 2021-22. land use pattern for area under pits, reclaimed area, dumps etc. 9d Scrutiny of 15723 Nos Seems corrected Nil Annual return on afforestation 9e Scrutiny of No mineral Seems corrected. Nil Annual return on reject mineral reject reported in AR generation (Grade and quantity) 9f Scrutiny of Subgrade Seems to be correct. Nil Annual return on Stock -ROM stock and/or 1293014 Tons graded ore Seems to be correct. Scrutiny of Captive use Nil 9g Annual return on Ex- Mine Price - Rs. sale value, Ex. Mine price and 175.06/- per production cost tonne Value of Fixed Seems corrected. 9h Scrutiny of Nil Annual return on assets fixed assets reported Rs. 522495497 9k Scrutiny of Details given Found correct. Nil Annual return on mining machineries

Details of violations observed during current inspection and compliance position of violation pointed out				
Violation	n observed	Show couse position		
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on	
MCDR17 Rule 11(1)	13-DEC-22			

Date :

(DATA RAM GURJAR)

Indian Bureau of Mines