

MCDR INSPECTION DATA

**1.0 GENERAL**

SN	Particulars	Details
1 (a)	Name of the Mine	JSW Cement Limestone Mines
1(b)	Name of Inspecting Officer & Designation	Darshan Deep Bhardwaj, Deputy Controller of Mines and In charge
1(c)	Accompanying Mines Representatives	Mr. Gaurav Kumar Soni, HOD, Mines
1(d)	Type of Inspection	Star Rating
1(e)	Date of Inspection	27.11.2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area (Ha) :- 617.57 Breakup area  Forest land (Ha) :- Nil Private land (Ha) :- 299.927 Revenue land (Ha.) :- 317.643  Others, if any :- Nil
3	Minecode	(Mine Code- 38APR11130)
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/106/2011
5	Name of the lessee, Address, phone, email and fax number	M/s JSW Cement Ltd, Bilakalagudur Village, Gadivemula Mandal, Nandyal District. AP,9010044482 <a href="mailto:jswcement.mines@jsw.in">jswcement.mines@jsw.in</a>
6	Village	Bilakalagudur
7	Taluka/Mandal	Gadivemula
8	District	Nandyal District
9	Pincode	518508
10	State	Andhra Pradesh
11	Post office	Bilakalagudur
12	Nearest police station	Gadivemula
13	Nearest Railway station	Nandyal
14	Date of Grant of Mining Lease	16/10/2007
15	Date of Execution	25/04/2008
16	Date of opening of Mine	20/06/2011
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Nilesh Narwekar. M/s JSW Cement Ltd, Bilakalagudur Village, Gadivemula Mandal,

		Kurnool District. AP, Date of appointment 21-08-2017
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Navneet Kumar Chauhan M/s JSW Cement Ltd, Bilakalagudur Village, Gadivemula Mandal, Kurnool District. AP, Date of appointment 31-01-2023
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Gauvar Kumar Soni M/s JSW Cement Ltd, Bilakalagudur Village, Gadivemula Mandal, Kurnool District. AP. Date of appointment 27-09-2024. <a href="mailto:gauravkumar.soni@jsw.in">gauravkumar.soni@jsw.in</a> Mobile no : 9922508762
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Shrawan Kumar Shukla BE Mining 18 years, M/s JSW Cement Ltd, Bilakalagudur Village, Gadivemula Mandal and Kurnool District. AP, Date of appointment 01-09-2016. <a href="mailto:shrawan.kumar@jsw.in">shrawan.kumar@jsw.in</a> , Mobile no: 9581284411
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Mr. P.Padmaraju, M.sc Geology, 17 years, M/s JSW Cement Ltd, Bilakalagudur Village, Gadivemula Mandal and Kurnool District. AP, Date of appointment 17-07-2023. <a href="mailto:padma.ponnamanda1@jsw.in">padma.ponnamanda1@jsw.in</a> , Mobile no: 9848000894
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<b><u>Review of Mining Plan</u></b> Letter no . AP/KNL/MP/LST-126/HYD, Dated 20/12/2022. <b><u>Modified of Ming Plan</u></b> Letter no. AP/KNL/MP/LST-126/HYD, dated 02.01.2024 with validity upto 31.03.2028. <b>Period F.Y 2023-24 to F.Y. 2027-28</b>
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 Mechanised, Others or Manual)	'A'
30	Captive/Non Captive	Captive

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

#### Exploration

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
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1a	Backlog of previous year	Nil	Nil	Entire ML area under G1 Level
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 01.04.2024	109.143592 Millon Tonnes		
1f	General remarks of inspecting officer on geology, exploration etc.	Entire area has been explored		

## **2.0 Development**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	<b>Pit-1</b> 227221E - 226294E 1735902N -1734870N <b>Pit-2</b> 226812E – 225855E 1734802N-1734285N	<b>Pit-1</b> 227221E - 226294E 1735902N -1734870N <b>Pit-2</b> 226743E – 225875E 1734802N-1734297N	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	NA	NA	
2c	Stripping ratio or ore to OB ratio	1: 0.02	1: 0.003	
2d	Quantity of topsoil generation in m3	---	52 m3	Pocket type soil occurred Top soil used for green belt development as & when generated.
2e	Quantity of overburden generation in m3	187180	106743	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Pits are being developed as per the proposal given in the mining plan.		

### **3.0 Exploitation**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	Pit- 1 and Pit-2	Pit- 1 and Pit-2	
3b	Quantity of ROM mineral production proposed	4581600	3859285	
3c	Recovery of salable /usable mineral from ROM production	4352520	3295079	
3d	Quantity of mineral reject generation	1073206	564206	
3e	Grade of mineral reject generation and threshold value declared	SiO <sub>2</sub> -21 %, CaO-37 % MgO-0.88 %	SiO <sub>2</sub> -21 %, CaO-37 % MgO-0.88 %	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method Open cast	Mechanised method Open cost	
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	YES	Blasting operations are being carried out in a controlled manner with multiple delays using NONEL (Non Electrical Initiation System) to minimize ground vibrations & fly rock.
3k	Provision of mining machineries in mineral benches	YES	YES	Mining is being done by mechanized method, using shovel, tipper combination.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 Mt	6 - 8 Mt	Maintaining as per approved Mining plan
3m	Total area covered	95.21 Ha	90.75Ha	

	under excavation/pits			
3n	Ore to OB ratio for the pit/mine during the year	1; 10.24	1: 15.12	
3o	Total area put in use under different heads at the end of year. i) Mining ii) OB / waste dump iii) Mineral Storage iv) Infrastructure (Workshop, administrative building etc.) v) Roads vi) Others (Cement Plant, Thermal Power Plant, Solar Plant).  <b>Total area put to use</b>	95.21 ha 11.56 ha 1.28 ha 5.00 ha 14.50ha 124.33 ha  <b>251.88 ha</b>	90.75 ha 9.36 ha 1.28 ha 5.00 ha 14.50ha 118.86 ha  <b>239.75 ha</b>	
3p	Production of ROM mineral during last five-year period, as applicable 2019-2020 2020-2021 2021-2022 2022-2023 2023-2024	3406920.00 3725520.00 3954360.00 4269360.00 4352520.00	2201997.00 2337000.00 2635000.00 2094921.00 3295079.00	Due to poor off-take of limestone by the cement plant on account of cement market conditions, Production of limestone from this mine is less.
3q	General remarks of inspecting officer on method of mining etc.	Mining is done as per the proposal of mining plan with open cast mining using drilling and blasting operations.		

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	Yes	No deviation
4b	Location of topsoil, OB & mineral reject dumps	<b>MR Dump-1</b> 226133E - 225903E 1735383N - 1735109N <b>MR Dump-2</b> 227268E – 227002E 1735986N-1735555N  <b>Waste Dump</b> 227067E - 226897E 1735908N - 1735661N	<b>MR Dump-1</b> 225944E - 226108E 1735325N - 1735131N <b>MR Dump-2</b> 227260E – 227002E 1735868N- 1735555N <b>Waste Dump</b> 227056E - 227004E 1735760N - 1735661N	No deviation
4c	Number of dumps within lease area and outside lease area	5 ( within lease area)	5 ( within lease area)	No deviation
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL	Outside of UPL	
4e	Number of active & alive dumps	3 Actives dumps	3 actives dumps	
4f	Number of dead dumps	2 Inactive dumps	2 Inactive dumps	
4g	Number of dumps stabilised	1 dump	1 dump	
4h	Whether Retaining wall or garland drain all along dumps are there	141mts length Garland drain Retaining wall all along dumps are proposed	141m length Garland drain Retaining wall all along dumps provided	No deviation
4i	Length of Retaining wall or garland drain all along dump	141mts	151mts	No deviation
4j	Number of settling ponds	No proposal	1	No deviation
4k	Specific comments of inspecting officer	OB stocked Separately in temporary dump within the mining lease area.		

### **5.0 Solid Waste Management-Backfilling**

SN	Item	Proposals (2023-24)	Actual work(2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	NA	NA	Area is not matured for the backfilling
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed & rehabilitated	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The backfilling is not commenced due to the mineral is not exhausted in the bottom benches.		

### **6.0 Progressive Mine Closure Plan**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule	Yes	Yes (Vide letter no: JSWCL/Mines/IBM/2023-24/(AR)/22 24.06.2024	No deviation
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	0.75 ha 0.75 ha 1875 no.s    10laks	0.75 ha 0.75 ha 2458 no.s  96520 no.s  12 laks	No deviation
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D)	NA	NA	No deviation

	ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Seasonal monitoring	Complied Annexure-1	No deviation
6f	General remarks of inspecting officer on PMCP compliance & progressive	The PMCP work is being carried out as per the proposal contained in the approved mining plan.		

### **7.0 Mineral Conservation**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	4352520.00	3295079.00	Entire quantity has been dispatched to cement plant. Sorting of mineral is not envisaged.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	
7c	Different grade of mineral sorted out at mines	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Entire ROM is used for the captive plan and no mineral beneficiation is required.		

### **8.0 Environment**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	Entire generated quantity of soil utilization for plantation

8b	Concurrent use or storage of topsoil	No proposal	52M <sup>3</sup>	Pocket type soil deposit occurred. Collecting systematically and used plantation propose
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	No deviation
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	WML:96520Nos (81.99 ha) Plant area: 102616 No(99.19 ha)	WML:96520Nos (81.99 ha) Plant area: 102616 No(99.19 ha)	No deviation
8g	Survival rate	90%	90%	No deviation
8h	Water sprinkling on roads to control airborne dust	Through water tanker & permanent water sprinklers	Complied	No deviation
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in and around mine is maintained.		

### 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS		Remarks
9a	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to till date – Oct-2024 A.R. submitted up to till date- F.Y 2023-2024		No deviation
S. N.	Item	Details GIVEN in A.R. 2023-24	Observation of Inspecting Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	1. Sh. Gauvar Kumar Soni, Manager Mines 2. Sh. Shrawan Kumar Shukla, Mining Eng. 3. Sh. Padmaraju, Mine Geologist	Found in order	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<ul style="list-style-type: none"> <li>i) Mining :- 90.75 ha</li> <li>ii) OB / waste dump :- 9.36 ha</li> <li>iii) Mineral Storage :- 1.28ha</li> <li>iv) Infrastructure (Workshop, administrative building etc.) :- 5.00ha</li> <li>v) Roads :- 14.50 ha</li> <li>vi) Others (Cement Plant, Thermal Power Plant, Solar Plant) :- 118.86ha</li> </ul>	Found in order	
9d	Scrutiny of Annual return on Afforestation	<p>Number of trees planted during the year – 2450 no.of sapling</p> <p>Survival rate in percentage - 90%</p> <p>Total no. of trees at the end of the year- 2212 no.of sapling</p>	Found in order	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Reject generation during the year- 564206 Tones	Found in order	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	N/A	N/A	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	187.27/- per tonnes	Found in order	
9i	Scrutiny of Annual return on fixed assets	15,00,25,893/-	Same	
9k	Scrutiny of Annual return on mining machineries	Details provided	Found in order	

**10- Details of violations compliance position of earlier violation pointed out: -**

During the inspection violation of Rule 31(4) and lessee has been advised to the send the compliance of the same within the stipulated time period of 45 Days from the date of issue of the violation letter.

Darshan Deep Bhardwaj  
Deputy Controller of Mines &  
Incharge  
Regional Office- Vijayawada  
Indian Bureau of Mines