

**INSPECTION DATASHEET****General**

| S.N. | Particulars  | Details   |
|------|--|---|
| 1    | Name of the Mine   | Bhatia Limestone Mines  |
|      | Date of Inspection:  | 31.05.2023  |
|      | Name of Inspecting Officer   | Shri Pukhraj Nenival (RCOM)   |
| 2    | Total Lease Area (Ha) with breakup of Non-forest and forest land                                     | Forest Land: NIL<br>Non-forest land: 9.008 Ha.  |
| 3    | Mine code  | 38MPR35277  |
| 4    | IBM Registration Number under rule 45 of MCDR,1988   | IBM/5097/2011   |
| 5    | Name of the Lease, Address, Phone, email and fax number  | Name of the Lessee: M/s. KJS Cement (I) Limited<br>Address: NH-7 Rewa Road, Rajnagar, Maihar-485771<br>Phone: 07672-239900<br>Email: <a href="mailto:mines@kjscement.com">mines@kjscement.com</a><br>Fax: 07672-239911  |
| 6    | Village  | Bhatia  |
| 7    | Taluka/Mandal  | Maihar  |
| 8    | District   | Satna   |
| 9    | Pin code   | 485771  |
| 10   | State  | Madhya Pradesh  |
| 11   | Post Office  | Bhatia  |
| 12   | Nearest Police Station   | Nadan   |
| 13   | Nearest Railway Station  | Maihar  |
| 14   | Date of Grant of Mining Lease  | 24.07.2003  |
| 15   | Date of Execution  | 02.08.2003  |
| 16   | Date of opening of Mine  | 01.04.2004  |
| 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 | Lease has been extended up to 01.08.2053 as per MMDRA Act, 2015   |
| 20   | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment           | Name of the Nominated Owner : Shri Neeraj Kumar Verma<br>Address: NH-7 Rewa Road, Rajnagar, Maihar-485771<br>Phone: 07672-239900<br>Email: <a href="mailto:mines@kjscement.com">mines@kjscement.com</a><br>Fax: 07672-239911<br>Date of Appointment: 07.12.2013 |
| 21   | Name of the Mine Agent with Address, phone, email, fax number and date of appointment                | Name of the Agent : Shri K P Nigam<br>Address: NH-7 Rewa Road, Rajnagar, Maihar-485771<br>Phone: 07672-239900<br>Email: <a href="mailto:kp.nigam@kjscement.com">kp.nigam@kjscement.com</a>  |

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|    |  | Fax: 07672-239911<br>Date of Appointment: 22.06.2019   |
| 22 | Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines   | Shri Atindra Bhattacharyya<br>Address: NH-7 Rewa Road, Rajnagar, Maihar-485771<br>Phone: 07672-239900<br>Email: <a href="mailto:a.bhattacharyya@kjscement.com">a.bhattacharyya@kjscement.com</a><br>Fax: 07672-239911<br>Date of Appointment: 01.12.2020 |
| 23 | Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine | Shri Rajkumar<br>Address: NH-7 Rewa Road, Rajnagar, Maihar-485771<br>Phone: 07672-239900<br>Email: <a href="mailto:rajtata2006@rediffmail.com">rajtata2006@rediffmail.com</a><br>Fax: 07672-239911<br>Date of Appointment: 10.11.2022                    |
| 24 | Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.            | Mr. Raj Kumar appointed Mining Engineer & Satpal Singh Raghuvanshi as a Geologist  |
| 25 | Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.                 | Mining Plan<br>Date of approval- 17.03.2003<br>Letter No. - MP/Satna/Limestone/MPLN-G-07/03-04<br>Period: 2004-2009  |
| 26 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.   | Review of Mining Plan<br>Date of approval: 06.06.2009, Letter No.- MP/Satna/Limestone/RMP -75/2018-19/5164<br>Period: 2019-20 to 2023-24   |
| 27 | Mineral(s) granted in lease and approved for Mining  | Limestone  |
| 28 | Method of Mining (Opencast, Underground)   | Opencast   |
| 29 | Category (Fully Mechanized, Others or Manual)  | Fully Mechanized   |
| 30 | Captive/Non-Captive  | Captive  |

### Exploration

| S.N. | Item   | Proposals  | Actual Work   | Remarks  |
|------|--|--|---|----------|
| 1a   | Backlog of previous year   | 02 BH  | 02 BH   | complete |
| 1b   | Exploration over lease area for Geological axis 1 or 2.            |  |   |          |
| 1c   | Exploration Agency & Expenditure in Lakh Rupees during the year    | The lessee company itself  | The lessee company itself under the supervision Geologist |          |
| 1d   | Balance area to be explored to bring Geological axis in 1 or 2.    | Entire lease area under G1   | 9.008 Ha. G1  |          |
| 1e   | Balance reserves as on 01.04.2023                                  | 1186578 T  | 1186820 T   |          |
| 1f   | General remarks of Inspecting officer on geology, exploration etc. | Limestone deposit of the area belongs to Bhandar Group of Vindhyan Super Group. Deposit is stratified strataboun tabular deposit of regular habit. |   |          |

**Development**

| S.N. | Item   | Proposals   | Actual Work  | Remarks |
|------|--|---|--|---------|
| 2a   | Location of Development w.r.t. lease area  | 2687170 N - 2687000 N and 489820 E - 489904 E   | 2687170 N - 2687000 N and 489820 E - 489904 E  |         |
| 2b   | Separate benches in topsoil overburden and mineral (Rule 15)                           | Separate Bench for Topsoil/OB 3 m and The 2 <sup>nd</sup> & 3 <sup>rd</sup> benches will be in limestone 6 m                            | Separate Bench for Topsoil/OB 3 m and The 2 <sup>nd</sup> & 3 <sup>rd</sup> benches of limestone 6 m |         |
| 2c   | Stripping ratio or ore to OB ratio   | 1.094   | 1.094  |         |
| 2d   | Quantity of topsoil generation in m <sup>3</sup>                                       | 3711 CuM  | 3339 CuM   |         |
| 2e   | Quantity of overburden generation in m <sup>3</sup>                                    | 11548   | 10393  |         |
| 2f   | General remarks of Inspecting officer on development of pit w.r.t type of deposit etc. | Development & Production work has encroached into your another non-working mine of 18.165 hect. Violation pointed out under rule 11(1). |  |         |

**Exploitation**

| S.N. | Item  | Proposals  | Actual Work                 | Remarks |
|------|---|--|-----------------------------|---------|
| 3a   | Number of pits proposed for production  | 01   | 01                          |         |
| 3b   | Quantity of ROM mineral production proposed (2015-16)                                       | 39994 Tonnes   | 39751.806 Tonnes            |         |
| 3c   | Recovery of Salable/usable mineral from ROM production                                      | 39994 Tonnes   | 39751.806 Tonnes            |         |
| 3d   | Quantity of mineral reject generation   | No Mineral rejects found.  | No Mineral rejects found..  |         |
| 3e   | Grade of mineral reject generation and threshold value declared                             | No Mineral Rejects, 34% CaO  | No Mineral Rejects, 34% CaO |         |
| 3f   | Quantity of sub-grade mineral generation  | No Mineral sub grades  | No Mineral sub grades       |         |
| 3g   | Grade of sub-grade mineral generation   | No Mineral sub grades  | No Mineral sub grades       |         |
| 3h   | Manual/Mechanized method adopted for segregation from ROM                                   | Mechanized   | Mechanized                  |         |
| 3i   | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject | Not proposed   | NIL                         |         |
| 3j   | Provision of drilling & blasting in mineral benches   | Drilling & blasting will be done as per parameter spacing:<br>1.0m<br>Burden: 0.8m<br>Depth of hole: 1.5m<br>Dia of hole: 32m<br>Charge per hole: 400gm<br>Powder factor: 8.0t | As per proposal             |         |
| 3k   | Provision of mining machineries in  | Compressor 02 nos.   | Compressor 02               |         |

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|    |  |  |   |           |
|----|--|--|---|-----------|
|    | mineral benches  | & Jack Hammer 02 nos.<br>Loading Machine: L&T PC-200-Hyd.<br>Excavator 01 nos.<br>Transportation: Dumpers 03 nos. 10t. & 03 dumpers 16t. 1 dewatering pump, water tanker | nos. & Jack Hammer 02 nos.<br>Loading Machine: L&T PC-200-Hyd.<br>Excavator 01 nos.<br>Transportation: Dumpers 03 nos. 10t. & 03 dumpers 16t. 1 dewatering pump, water tanker |           |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Height of benches in overburden and mineral proposed 3 m for OB & 6 m for mineral  | Height of benches in overburden and mineral proposed 3 m for OB & 6 m for mineral   |           |
| 3m | Total area covered under excavation /pits  | 2969   | 2820  |           |
| 3n | Ore to OB ratio for the pit/mine during the year   | 1.094  | 1.094   |           |
| 3o | Total area put in use under different heads at the end of year                                       | Mining: 6.03 ha.<br>Roads: 0.1 ha.<br>Infrastructure: 0.01 ha.<br>OB/waste dump: NIL.<br>Top soil preservation: 0.5 ha.  | Mining: 6.13 ha.<br>Roads: 0.110 ha.<br>OB/waste dump: 0.6 ha.<br>Others 0.16   |           |
| 3p | Production of ROM mineral during last five-years period, as Applicable                               | 2018-19  | 41235   | 39552.71  |
|    |  | 2019-20  | 39972   | 37958.19  |
|    |  | 2020-21  | 39998   | 39895.04  |
|    |  | 2021-22  | 39994   | 39993.56  |
|    |  | 2022-23  | 39994   | 39751.806 |
| 3q | General remarks of inspecting officer on method of mining etc  | Drilling & Blasting practice adopted as method of mining with HEMM   |   |           |

#### **Solid Waste Management-Dumping**

| S.N. | Item  | Proposals   | Actual Work   | Remarks |
|------|---|---|---|---------|
| 4a   | Separate dumping of topsoil, OB & mineral reject (Rule 32,33) | The top soil Proposed in 2022-2023 3711 m <sup>3</sup> and OB/waste proposed 11548 m <sup>3</sup> | The top soil Generated in 2022-2023, 3339 m <sup>3</sup> and OB/waste proposed 10393 m <sup>3</sup> |         |
| 4b   | Location of topsoil, OB & mineral reject dumps                | Location of OB/waste dumps  | Location of OB/waste dumps 2686812 N and  |         |

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|    |   |   |   |   |
|----|---|---|---|---|
|    |   | 2686812 N<br>and 489570 E                           | 489570 E                                    |   |
| 4c | Number of Dumps within lease area and outside lease area          | 02  | 02  |   |
| 4d | Location of Dumps w.r.t. ultimate pit limit (Rule 16)             | OB/waste dumps<br>2686812 N<br>and 489570 E         | OB/waste dumps<br>2686812 N and<br>489570 E | The top soil quantity generated used for plantation |
| 4e | Number of Active & Alive dumps                                    | 01  | 01  |   |
| 4f | Number of deed dumps  |   |   |   |
| 4g | Number of dumps established                                       | 01  | 01  |   |
| 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          | Nil   | Garland drain<br>78.7 M                     |   |
| 4j | Number of settling ponds  |   | 01  |   |
| 4k | Specific commends of inspecting officer on waste dump management  | Violation under rule 11(1) of MCDR'2017 pointed out |   |   |

#### 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 Fully Mined out area                              | No Fully Mined out area |                        |
| 5b   | Area under backfilling of mined out area   | 0.11   | NIL                     | No Fully Mined out pit |
| 5c   | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)      | 3711 m <sup>3</sup>                                  | 3339                    | Used for plantation    |
| 5d   | Total area fully reclaimed & rehabilitated   | Nil  | Nil                     |                        |
| 5e   | General remarks of inspecting officer on backfilling, reclamation etc                        | Backfilling was not done as per proposed in 2022-23. |                         |                        |

#### Progressive Mine Closer 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-20 | Annual PMCP report will be submitted before 1 <sup>st</sup> day of July every year | Annual report of PMCP 26 (2) of MCDR-2017 submitted |         |
| 6b   | Management of worked/mined out benches   |  |   |         |
|      | i) Area available for rehabilitation (Ha)  | Not proposed   | NIL   |         |

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|    |  |   |   |  |
|----|--|---|---|--|
|    | ii) Afforestation done (ha)  | Not proposed  | NIL   |  |
|    | iii) No.of saplings planted during the year  | Not proposed  | NIL   |  |
|    | iv) Cumulative no. of plants   | Not proposed  | NIL   |  |
|    | v) Any other specific method of rehabilitation   | Not proposed  | NIL   |  |
|    | vi) Cost incurred on watch & care during the year  | Not proposed  | NIL   |  |
| 6c | Compliance on reclamation and rehabilitation by backfilling<br>i) Voids available for backfilling (L*B*D)<br>ii) Void filled by waste/tailings<br>iii) Afforestation on the backfilling<br>iv) Rehabilitation by making water reservoir<br>v) Any other specific means | i) 0.0717ha.<br>ii) NIL.<br>iii) NIL<br>iv) NIL<br>v) NIL | i) NIL<br>ii) NIL<br>iii) Nil<br>iv) Nil<br>v) Nil  |  |
| 6d | Compliance of Rehabilitation of waste land within lease<br>i) Afforestation<br>ii) Area rehabilitation<br>iii) Method of rehabilitation  | i) 0.04<br>ii) NIL<br>iii) NIL                            | i) 0.04<br>ii) NIL<br>iii) NIL  |  |
| 6e | Compliance of Environment monitoring (core zone & buffer zone)   | Air, Water, Noise levels will monitored on periodically   | Compliance of Environment monitoring done and in-house monitoring system are working continue |  |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive closer operations   | PMCP report submitted                                     |   |  |

### Mineral Conservation

| S.N. | Item   | Proposals   | Actual Work                                 | Remarks |
|------|--|---|---|---------|
| 7a   | ROM mineral dispatch or grade wise sorting within lease area | ROM mineral produced will be supplied to captive cement plant of the company at village Amilia. | Entire ROM has been fed to own cement plant |         |

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|    |  |   |   |  |
|----|--|---|---|--|
| 7b | Method of grade-wise mineral sorting<br>i.e. manual or mechanical                    | mechanical  | mechanical  |  |
| 7c | Different grade of mineral sort out at mine  | The Limestone of the lease area is of cement grade.   | Entire mineral used in cement making  |  |
| 7d | Any beneficiation process at mines   | The ROM limestone will be sized in the crusher installed near plant at Amilia Village.          | Vibrating screening used when excess soil is mixed to lower SiO <sub>2</sub> in crusher located outside mines |  |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | ROM mineral produced will be supplied to captive cement plant of the company at village Amilia. |   |  |

**Environment**

| S.N. | Item  | Proposals  | Actual Work  | Remarks |
|------|---|--|--|---------|
| 8a   | Separate removal and utilization of topsoil (Rule32)  | The top soil generated was stacked in the dump towards south.                              | The top soil used for plantation                           |         |
| 8b   | Concurrent use or storage of topsoil  | No action will be taken for utilization and proper stacking of top soil to be left at end. | No any stack of top soil it is already used for plantation |         |
| 8c   | Separate dumps for overburden waste rock, rejects and fines (Rule 33)                             | One separate dump of OB/Waste  | One separate dump of OB/Waste                              |         |
| 8d   | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Not proposed   | NIL  |         |

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|    |   |   |   |  |
|----|---|---|---|--|
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Reclamation by backfilling has been proposed                                  | No reclamation done as there was no mined out area.   |  |
| 8f | Baseline information on existence of plantation & additional plantation done (Rule 41)                      | The 0.5 ha. area was proposed for plantation in the lease boundary            | In the year 2022-23 ,100 saplings planted in the mining lease area  |  |
| 8g | Survival rate   | 80%   | 70%   |  |
| 8h | Water sprinkling on roads to control airborne dust  | Regular water sprinkling will be maintained to control airborne dust.         | Regular water sprinkling at roads, haul roads maintain the SPM concentration within limit result so that no dust become airborne. |  |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mine area                           | No plantation work is carried out in 2022-23 against proposal of 500 saplings |   |  |

**Compliance of Rule 45**

| S.N. | Item  | Comments   | Remarks |
|------|---|--|---------|
| 9a   | Status of submission of monthly and Annual returns  | MR of May-23 and AR of 2022-23 has been submitted  |         |
| 9b   | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | <b>Name of the Mining Engineer:</b><br>Shri Rajkumar<br><b>Geologist:</b><br>Mr. Satpal Singh Raghuwanshi<br><b>Manager:</b><br>Shri Atindra Bhattacharyya |         |
| 9c   | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Land use as per Annual return 2022-23<br>Mining: 6.330 ha.<br>Roads and Infra. : 0.110 ha.<br>OB/waste dump: 0.5 ha.<br>Others 0.16                        |         |



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|    |  |  |                       |
|----|--|--|-----------------------|
| 9d | Scrutiny of Annual return on Afforestation                                 | No plantation work is carried out in 2022-23 against proposal of 500 saplings                              | Violation pointed out |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & Quantity)  | No any mineral reject generated during the year.   |                       |
| 9f | Scrutiny of Annual return on ROM stock and/or grade ore                    | As per AR 2022-23, approved mining plan ROM was proposed 39994 t & actual production carried out 39751 t   |                       |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production costs | Sale value,- captive used<br>Ex. Mine price –Rs. 316.64/tonne<br>production costs- Rs. 316.64/tonne        |                       |
| 9i | Scrutiny of Annual return on Fixed assets                                  | Fixed assets as per AR: Value of Fixed Assets (in ₹) 29944692  |                       |
| 9k | Scrutiny of Annual return on mining Machineries                            | As per AR 2022-23<br>BACK HOE 0.900 CUM 1 nos.<br>DUMPER 16 TONNE 3 nos.<br>WATER TANKER 5000 LITRE 1 nos. |                       |

Details of Validations observed during current inspection and compliance position of earlier violation pointed out:- Details is given below:

- Rule – 11(1) – (i) Development & Production work has encroached into your another non-working mine of 18.165 hect**  
**(II) No plantation work is carried out in 2022-23 against proposal of 500 saplings.**  
**(III) Backfilling was not done as per proposed in 2022-23.**
- Rule 63(1) - During the inspection it was observed that preservation of cores was not done properly.**
- Rule 67 - Original Mining Lease deeds viz. initial, transfer of supplementary were not made available during inspection despite it was already intimated to keep these documents**

Date:

Name: Shri Pukhraj Nenival

Designation: Regional Controller of mines