

**MCDR Data Base**

|  |                           |
|--|---------------------------|
| 1) Name of Inspecting officer:                 | Prasant Kumar Sahu        |
| 2) Designation                                 | Assistant Mining Engineer |
| 3) Accompanying mine official with designation | Nitesh Raghuvanshi, Agent |
| 4) Date of Inspection                          | 13.12.2022                |
| 5) Date of Previous Inspection                 | 20.09.2021                |

**I. GENERAL INFORMATION**

| Sl.No | Particulars  | Details   |
|-------|--|---|
| 1     | Name of the Mine   | Godadih Mahal No.2 Limestone Mines  |
| 2     | Total Lease Area (Ha) with breakup of Non-forest and forest land                                     | Total Area- 120.313 Ha, Forest Area- 24.414 Ha. Non- Forest Area-95.899 Ha  |
| 3     | Minecode   | 38CHG02003  |
| 4     | IBM Registration Number under rule 45 of MCDR, 1988  | IBM/4355/2011   |
| 5     | Name of the lessee, Address, phone, email and fax number   | Jindal Steel & Power Ltd. Vill+P.O- Godadih, Tehsil- Masturi, Dist Bilaspur(C.G) 495551   |
| 6     | Village  | Godadih   |
| 7     | Taluka/Mandal  | Masturi   |
| 8     | District   | Bilaspur  |
| 9     | Pincode  | 495551  |
| 10    | State  | Chhatisgarh   |
| 11    | Post office  | Godadih   |
| 12    | Nearest police station   | Pachpedi  |
| 13    | Nearest Railway station  | Jairamnagar   |
| 14    | Date of Grant of Mining Lease  | 05.01.2017  |
| 15    | Date of Execution  | 07.01.2017  |
| 16    | Date of opening of Mine  | 25.09.2018  |
| 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           | Shri D.K. Saraogi<br>Jindal Steel & Power Limited<br>Post Box no.16, Kharsia Road, Raigarh,<br>District-Raigarh, Chhattisgarh- 496001<br>07762 227001, Fax- 07762-227002<br>e-mail-dinesh.saraogi@jindalsteel.com.<br>Date of appointment-09.11.2012. |
| 21    | Name of the Mine Agent with Address, phone, email, fax number and date of appointment                | Shri Nitesh Raghuvanshi,<br>Jindal Steel & Power Limited<br>Godadih Mahal No.2, Taluka -Masturi, District -<br>Bilaspur, Chhattisgarh- 495551.<br>7880009783<br>nitesh.raghuvanshi@jindalsteel.com<br>Date of appointment-15.05.2021.                 |
| 22    | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines    | Shri Subhash Singh,<br>Jindal Steel & Power Limited<br>Godadih Mahal No.2, Taluka- Masturi, District-<br>Bilaspur, Chhattisgarh- 495551.<br>9109182879, subhash.singh@jindalsteel.com<br>Date of appointment-02.08.2021.                              |
| 23    | Name of the Mining Engineer,   | Shri Pramod Kumar B.E. Mining (1 <sup>st</sup> class) Mines   |

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|    | Qualification and total experience with Address, phone, email, fax number and date of appointment in mine                               | Manager certificate holder, Exp. >20 Years, Godadih Mahal No.2, Limestone Mine Jindal Steel & Power, Village- Godadih, Tehsil - Masturi, District Bilaspur, Chhattisgarh- 495551. 9109130754, pramod.kumar1@jindalsteel.com Date of appointment-20.02.2021                           |
| 24 | Name of the Geologist , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine       | Shri Saorav Shrivastava, M.Tech(Applied Geology) Exp.>18 Years, Godadih Mahal No.2, Limestone Mine Jindal Steel & Power, Village -Godadih, Tehsil - Masturi, District- Bilaspur, Chhattisgarh- 495551. 8085064799, saorav.shrivastava@jindalsteel.com Date of appointment-14.01.2020 |
| 25 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.           | Yes  |
| 26 | Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.           | Modification in Review of Mining Plan. Letter no. Bilaspur/chup/khayu-1307/2021- Raipur dated 28.01.2022 Proposal period from-2021-2022 to 2025-2026   |
| 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(Open cast, Underground)  | Open cast  |
| 30 | Category (Fully Mechanised, Others or Manual)   | Fully Mechanised   |
| 31 | Captive/Non Captive   | Captive  |
| 32 | Environmental Clearance   | 1.54 million tones   |
| 33 | Status of Financial Assurance as per rule 27 of MCDR, 2017  | MDPA Signed Performance Security submitted with Chhattisgarh State Govt., Date of expiry: 06/01/2027   |

## II. SCIENTIFIC MINING

**[Data in respect of financial year (2021-22) or cumulative, as applicable]**

| Sl. No                  | Item  | Proposals (2021-22)                         | Actual Work (2021-22)                                      | Remarks   |
|-------------------------|---|---|--|---|
| <b>A. EXPLORATION:-</b> |   |   |  |   |
| 1a                      | Backlog of Previous Year  | 18 boreholes (09 each in 2019-20 & 2020-21) | Exploration of 18 infilling boreholes completed in 2021-22 |   |
| 1b                      | Exploration Over Lease area for Geological Axis 1 or 2              | G1  | Under G1 Category: 120.3131 Ha Non- Mineralized: 6.96 Ha   | Entire lease area has been explored at G1 level as per the approved document. |
| 1c                      | Exploration Agencies and Expenditure in lakh rupees during the year | No proposal                                 | Not applicable   | 18 boreholes (09 each in 2019-20 & 2020-21) were completed in the             |

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|----|--|--|-----|--|
|    |  |  |     | year 2021-22 by the exploration agency M/s Shreeram Gemicon Pvt. Ltd. with a total expenditure on exploration activities in 2021-22-Rs. 2487590 totaling to Rs. 10634487.00 till date. |
| 1d | Balance area to be explored to bring Geological axis 1 or 2        | No proposal  | Nil | Entire ML area explored in G1 category by infilling of 18 bore holes in FY 21-22 till RL 210m).  |
| 1e | Balance reserves as on 01/04/2022                                  | Under (111): 43.2 Million Tonnes<br>Under (121): 3.86 Million Tonnes<br>Under (211): 5.05 Million Tonnes<br>Under (221): 20.92 Million Tonnes  |     | As per the AR 2021-22  |
| 1f | General remarks of inspecting officer on geology, exploration etc. | Entire ML area explored in G1 category by infilling of 18 bore holes in FY 21-22 till RL 210m). 18 boreholes (09 each in 2019-20 & 2020-21) were completed in the year 2021-22 by the exploration agency M/s Shreeram Gemicon Pvt. Ltd. with a total expenditure on exploration activities in 2021-22-Rs. 2487590. |     |  |

| Sl. No                  | Item  | Proposals  | Actual Work   | Remarks   |
|-------------------------|---|--|---|---|
| <b>B. DEVELOPMENT:-</b> |   |  |   |   |
| 2a                      | Location of development w.r.t. lease area           | Latitude- 21 48' 13.89" to 21 48' 20.01"<br>Longitudes- 82 17' 54.82" to 82 18" 11.40" | Latitude- 21 48' 20.01" to 21 48' 13.89"<br>Longitudes- 82 18" 9.25" to 82 17' 54.82" | Development was carried out within the proposed grids                         |
| 2b                      | Separate benches in topsoil, overburden and mineral | Separate benches proposed in OB & mineral  | Separate benches were maintained in OB & mineral                                      | 1 bench in Soil/O.B<br>2 benches in Limestone                                 |
| 2c                      | Stripping ratio or ore to OB ratio                  | 1:0.08   | 1:0.13  | TCF<br>Limestone- 2.54<br>Overburden- 2.11<br>Topsoil- 1.99                   |
| 2d                      | Quantity of topsoil generation in m3                | 1923   | 4845.84   | Violation issued for not utilizing the generated topsoil as per the proposals |
| 2e                      | Quantity of overburden generation in m3             | 56598  | 80672.69  | -   |

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|----|---|---|
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | Overall development was carried out within the proposed grid however violation was issued for not utilizing the generated topsoil as per the proposals. |
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| Sl. No                   | Item  | Proposals   | Actual Work  | Remarks  |
|--------------------------|---|---|--|--|
| <b>C. EXPLOITATION:-</b> |   |   |  |  |
| 3a                       | Number of Pit Proposed for Production   | 01pit proposed  | Working carried out in 01pit only  |  |
| 3b                       | Quantity of ROM mineral production proposed   | 1540000   | 627358   | Violation issued for less production of ROM  |
| 3c                       | Recovery of Sailable/ Usable Mineral from ROM Production                                    | 99%   | 99%  |  |
| 3d                       | Quantity of mineral reject generation   | No proposal   | Nil  | No generation of mineral reject  |
| 3e                       | Grade of mineral reject generation and threshold value declared                             | No proposal   | Nil  |  |
| 3f                       | Quantity of sub-grade mineral generation  | No proposal   | Nil  |  |
| 3g                       | Grade of sub-grade mineral generation   | No proposal   | Nil  |  |
| 3h                       | Manual / Mechanised method adopted for segregating from ROM                                 | Mechanized method proposed for segregating from ROM         | Mechanized method adopted for segregating from ROM                             | Blasted material from the mines is fed to the crusher (320 TPH crusher)  |
| 3i                       | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject | No proposal   | No such study carried out  |  |
| 3j                       | Provision of drilling & blasting in mineral benches   | Deep hole drilling and Blasting proposed in mineral benches | Deep hole drilling and blasting was carried out in mineral benches as proposed | Drill machine -104 mm dia Spacing-3.0 mt., burden-2.5 mt., depth-6.5 mt. Slurry / Emulsion explosive in Cartridge form is used |
| 3k                       | Provision of mining machineries in mineral benches  | Shovel dumper combination proposed                          | Mining is done using Shovel dumper combination                                 | Two excavators & 06 Dumpers were observed in operation on the day of inspection.   |
| 3l                       | Whether height of benches in overburden and mineral suitable                                | Bench Height proposals: In OB 1-3m                          | Bench height & width maintained. Overburden - 1.5 m                            | Bench height and width found to be adequate  |

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|    | for method of mining proposed in MP/SOM                               | In Mineral-6m   | Mineral – 5.0 m  |  |
| 3m | Total area covered under excavation/pits                              | 17.83 Ha at the end of plan period  | 6.493 Ha. At the end of reporting year   |  |
| 3n | Ore to OB ratio for the pit/mine during the year                      | 1:0.08  | 1:0.13   | TCF<br>Limestone- 2.54<br>Overburden- 2.11<br>Topsoil- 1.99                        |
| 3o | Total area put in use under different heads at the end of year        | Area under mining- 17.83 ha, Topsoil Stacking-1.4 ha, OB/Waste dump-3.00 ha, Mineral storage-0.82 ha, Infra/Roads-1.58 ha, Others-1.6 ha at the end of plan period  | Covered under current workings-6.493 ha, Plant/building/roads-2.290 ha, Others-1.992 ha                | Violation under 11(1) issued for deviation in the approved land use pattern        |
| 3p | Production of ROM mineral during last five-year period, as applicable | Yr- 2017-18:1540000<br>Yr- 2018-19: 1540000<br>Yr- 2019-20: 1540000<br>Yr- 2020-21: 1540000<br>Yr- 2021-22: 1540000   | Yr- 2017-18: Nil<br>Yr- 2018-19: Nil<br>Yr- 2019-20: 500<br>Yr- 2020-21: 240168<br>Yr- 2021-22: 627358 | Actual production is within the proposed quantity. All units in MT (Metric Tonnes) |
| 3q | General remarks of inspecting officer on method of mining etc.        | A single quarry has been developed as proposed. Production is carried out using deployment of HEMM with the help of drilling & blasting. Violation under 11(1) issued for deviation in the approved land use pattern. |  |  |

| Sl. No                                       | Item   | Proposals   | Actual Work  | Remarks   |
|--|--|---|--|---|
| <b>D. SOLID WASTE MANAGEMENT - DUMPING:-</b> |  |   |  |   |
| 4a   | Separate Dumping of Topsoil, OB and Mineral Rejects (Rule 32,33) | Separate dumping of Topsoil & OB proposed                                       | Not utilizing the generated topsoil as per the proposals | Violation issued for not utilizing the generated topsoil as per the proposals |
| 4b   | Location of Topsoil, OB and Mineral Rejects Dumps                | Top Soil- 82 18' 57.21" to 21 47' 45.01"<br>OB - 82 18' 47.34" to 21 47' 39.61" | OB - 82 18' 47.34" to 21 47' 39.61"                      | -do-  |
| 4c   | Number of Dumps within Lease & Outside Lease area                | 01 each for top soil & OB   | OB= 1  | -do-  |
| 4d   | Location of Dumps, within Ultimate Pit Limit (Rule-16)           | Proposed beyond ultimate pit limit  | Outside UPL<br>OB - 82 18' 47.34" to 21 47' 39.61"       |   |
| 4e   | Number of Active &   | 02  | 01 for OB  |   |

|    |  |   |                 |                              |
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|    | Alive Dumps  | (01 each for top soil & OB)   |                 |                              |
| 4f | No of Dead Dumps   | 0   | 0               |                              |
| 4g | No of Dumps Established  | 02  | 01              |                              |
| 4h | Whether Retaining Wall or Garland drain along Dumps are there    | Yes   | Not constructed | Violation under 11(1) issued |
| 4i | Length of Retaining Wall or Garland drain along Dumps            | Garland drain-1000m   | Not constructed | -do-                         |
| 4j | No. of Settling tanks  | 1   | 0               | -do-                         |
| 4k | Specific comments of inspecting officer on waste dump management | Environmental protection measures have not been undertaken around the waste dump and Soil dump as proposed. Violation under 11(1) issued. |                 |                              |

| Sl. No   | Item   | Proposals  | Actual Work | Remarks                                    |
|--|--|--|-------------|--|
| <b>E. SOLID WASTE MANAGEMENT - BACKFILLING:-</b> |  |  |             |  |
| 5a   | Status of part or full extraction of mineral from mined out area before starting backfilling | No proposal  | Nil         | No area is mined out fully for backfilling |
| 5b   | Area under backfilling of mined out area   | No proposal  | Nil         | -do-                                       |
| 5c   | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)      | No proposal  | Nil         | -do-                                       |
| 5d   | Total area fully reclaimed and rehabilitated   | No proposal  | Nil         | -do-                                       |
| 5e   | General remarks of inspecting officer on backfilling, reclamation etc                        | Mineral has not been exhausted fully & thus no proposal given for backfilling. |             |  |

| Sl. No                                    | Item  | Proposals                                   | Actual Work                  | Remarks                               |
|---|---|---|------------------------------|---------------------------------------|
| <b>F. PROGRESSIVE MINE CLOSURE PLAN:-</b> |   |   |                              |                                       |
| 6a  | Whether Annual report on PMCP submitted on time and correctly - Rule 26 (2) | To be submitted before 01st July every year | PMCP report received in time | Annual return submitted on 28.06.2022 |
| 6b  | Management of worked/mined out benches<br>i) Area available for             | No proposal                                 | Nil                          | No area is mined out at present       |

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|    | rehabilitation (ha)<br>ii) Afforestation done (ha)<br>iii) No. of saplings planted during the year<br>iv) Cumulative no. of plants<br>v) Any other specific method of rehabilitation<br>vi) Cost incurred on watch & care during the year                                      |   |  |   |
| 6c | Compliance on reclamation and rehabilitation by backfilling<br>i) Voids available for backfilling (L X B X D)<br>ii) Void filled by waste/tailings<br>iii) Afforestation on the backfilled area<br>iv) Rehabilitation by making water reservoir<br>v) Any other specific means | No proposal   | Nil  | No backfilling proposal   |
| 6d | Compliance of Rehabilitation of waste land within lease<br>i) Afforestation<br>ii) Area rehabilitated (ha)<br>iii) Method of rehabilitation  | i)-3000 Plants<br>ii) 1.5 Ha<br>iii) Plantation of 3000 saplings                        | WML-6189saplings @70% survival & 2818 saplings outside the ML area@60% survival    |   |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone)   | Environmental monitoring of air, water & noise proposed                                 | Environmental monitoring of air, water & noise was carried out as per the proposal | All values of environment monitoring are within permissible limits. |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive closure operations  | Annual PMCP report has been submitted. Plantation has been carried out as per proposal. |  |   |

| Sl. No                           | Item   | Proposals   | Actual Work                                     | Remarks  |
|----------------------------------|--|---|---|--|
| <b>G. MINERAL CONSERVATION:-</b> |  |   |   |  |
| 7a                               | ROM mineral dispatch or grade wise sorting within lease area | Crushed/Processed ore fed to captive cement/steel plant | Only used in steel making (Blast Furnace grade) | Violation under Rule (11) issued for deviating the lease deed conditions |

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| 7b | Method of Grade-wise mineral sorting i.e. manual or mechanical                       | Mechanized method proposed  | Mechanized method adopted                         | By using Terrex Crusher to produce 8-40mm, 2-6mm & 0-2mm                                     |
| 7c | Different grade of mineral sorted out at mines                                       | No proposal   | Nil   |  |
| 7d | Any beneficiation process at mines   | No proposal   | No beneficiation is done in mines except crushing | Only crushing is done at mine site, after which mineral is dispatched to captive steel plant |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | The blasted ROM have been crushed to different size and fed to the captive steel plant. Violation under Rule (11) issued for deviating the lease deed conditions regarding use of limestone from this mining lease. |   |  |

| Sl. No                  | Item   | Proposals  | Actual Work   | Remarks   |
|-------------------------|--|--|---|---|
| <b>H. ENVIRONMENT:-</b> |  |  |   |   |
| 8a                      | Separate removal and utilization of topsoil  | Yes  | Not utilizing the generated topsoil as per the proposals        | Violation issued for not utilizing the generated topsoil as per the proposals |
| 8b                      | Concurrent use or storage of topsoil   | Concurrent use   | Not utilizing the generated topsoil as per the proposals        | -do-  |
| 8c                      | Separate dumps for overburden, waste rock, rejects and fines   | Separate dumps for overburden, waste rock, rejects is proposed   | Separate dump for all type of waste is being maintained         |   |
| 8d                      | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use            | No proposal  | Nil   |   |
| 8e                      | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.) | No proposal  | Nil   |   |
| 8f                      | Baseline information on existence of plantation & additional plantation done                                 | 3000 saplings  | 6189 saplings   |   |
| 8g                      | Survival rate  | 70%  | 70%   |   |
| 8h                      | Water sprinkling on roads to control airborne dust   | Water sprinkling on haul roads proposed to suppress the dust   | Continuous water sprinkling done on haul roads by water tankers |   |
| 8i                      | General remarks of inspecting officer on   | Aesthetic beauty in & around the mine area was good as the lessee had carried out afforestation & environmental protection measures as per |   |   |



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|  | aesthetic beauty in and around mines area | the proposal. |
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| Sl. No                            | Item  | Comments   |   | Remarks |
|-----------------------------------|---|--|---|---------|
| <b>I. COMPLIANCE OF RULE-45:-</b> |   |  |   |         |
| 9a                                | Status of Submission of Monthly & Annual Returns  | MR Submitted up to = Feb 2023<br>AR Submitted up to =FY 21-22  |   |         |
| Sl. No                            | Item  | Details Given in A.R   | Observation of I/Officer  | Remarks |
| 9b                                | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Mining Engg.-Pramod Kumar Geologist-Saorav Shrivastava Manager-Subhash Singh   | Same mine officials were present during the course of inspection.           | -       |
| 9c                                | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Covered under current workings-6.493 ha, Plant/building/roads-2.290 ha, Others-1.992 ha  | Violation under 11(1) issued for deviation in the approved land use pattern | -       |
| 9d                                | Scrutiny of Annual return on afforestation  | WML- 6189 saplings @ 70% survival rate<br>OML- 2818 saplings @ 60% survival rate.  | Appears to be correct   | -       |
| 9e                                | Scrutiny of Annual return on mineral reject generation (Grade & quantity)                     | Nil  | No generation of mineral rejects reported                                   | -       |
| 9f                                | Scrutiny of Annual return on ROM stock and/or graded ore                                      | ROM: in Tonne<br>Opening-88925.000<br>Production-627357.6<br>Closing-263187.920  | Appears to be correct.  | -       |
| 9g                                | Scrutiny of Annual return on sale value, Ex. Mine price & production cost                     | Ex mine price-Rs. 458.03/Ton<br>Sale value-0   | Limestone form the mine is used for captive consumption in steel plant      | -       |
| 9i                                | Scrutiny of Annual return on fixed assets   | Rs. 975527680 including land, machinery & building   | Appears to be correct.  | -       |
| 9k                                | Scrutiny of Annual return on mining machineries   | Back Hoe 0.9 cum-2 Nos.<br>Back Hoe 2.1 cum-2 Nos.<br>Tipper-6 Nos.<br>Drill Machine-2 Nos.<br>Front end loader-2 Nos.<br>Water tanker-1 Nos.<br>Pumps(ele)-2 Nos. | Appears to be correct.  | -       |

**III. Status of compliance of MCDR, 2017 including therewith the rectification of outstanding violation of the rules.**

| Date of last inspection | Violation pointed out  | Compliance reported        |
|-------------------------|--|----------------------------|
| 20.09.2021              | Rule 11(1), 13(2), 14(4), 19, 26(2),33, 45(5)(C), 46,54 and 55 on dated 24.09.2021 | All complied on 22.02.2022 |

Violation of Rule 11(1) of MCDR 2017 is pointed out during current inspection.

Date: 18.04.2023

प्रशान्त कुमर साहू / Prasant Kumar Sahu  
सहायक खनन अभियंता / Assistant Mining Engineer  
भारतीय खान ब्यूरो / Indian Bureau of Mines