## INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

## Mining Plan Modification REPORT

# Ranchi regional office

|    | Mine :                                 | file No : BIH/GLA/BX/2   | 204 | /RRO  | Mine code : 07BHR32009 |
|----|--|--|-----|---|------------------------|
|    | (i)                                    | Name of the Inspecting<br>Officer and ID No.   | :   | KQ3 ) G. S. KANNAN  |                        |
|    | (ii)                                   | Designation  | :   | Senior Mining Geologist   |                        |
|    | (iii)                                  | Accompaning mine<br>Official with<br>Designation   | :   | Shri. Ambastha, QP & Tripur   | cari, MM               |
|    | (iv)                                   | Date of Inspection   | :   | 09/08/2021  |                        |
|    | (v)                                    | Prev.inspection date   | :   |   |                        |
|    |  | PA   | RT- | I : GENERAL INFORMATION   |                        |
| 1. | (a)                                    | Mine Name  |     | JALIM AND SANAI (38.447)  |                        |
|    | (b)                                    | Registration NO.   |     | IBM/935/2011  |                        |
|    | (c)<br>(d)<br>(e)<br>(f)<br>(g)<br>(h) | Category<br>Type of Working<br>Postal address<br>State<br>District<br>Village<br>Taluka<br>Post office<br>Pin Code<br>FAX No.<br>E-mail<br>Phone<br>Police Station<br>First opening date<br>Weekly day of rest |     | A Other than Fully Mech.<br>Opencast<br>JHARKHAND<br>GUMLA<br>JALIM & SANAI<br>BISHUNPUR<br>BISHUNPUR<br>06526-24118<br>N.A.<br>06526-24016,24112,24446<br>BISHUNPUR<br>01/11/1983<br>SUN |                        |
| 2. |  | ess for<br>espondance  | :   | VILL JALIM & SANAI<br>PO-BISHNPUR<br>DIST-GUMLA   |                        |
| 3. | (a)<br>(b)<br>(c)<br>(d)               | Lease Number<br>Lease area<br>Period of lease<br>Date of Expiry  | :   | BHR0248<br>12.14<br>31/03/2030  |                        |
| 4. | Miner                                  | cal worked   | :   | BAUXITE Main  |                        |

|   | M/S HINDALCO INDUSTRIES LTD.<br>AT - COURT ROAD,<br>LOHARDAGA, LOHARDAGA<br>JHARKHAND<br>Phone:06526-22401112, 224446 & 224016.<br>FAX :06526-224112 & 224445<br>K.N.BHANDARI<br>M/s Hindalco Industries Ltd<br>P.O. Renukoot Dist.  |
|---|--|
|   | Sonebhadra (UP) SONBHADRA<br>UTTAR PRADESH<br>Phone:<br>FAX :  |
| Agent :   | B.K.JHA<br>M/s HINDALCO INDUSTRIES<br>Ltd. COURT ROAD PO& DIST –<br>LOHARDAGA (JHK) LOHARDAGA<br>JHARKHAND<br>Phone: Mob- 941708929, 06526-224112/224015<br>FAX : 06526-224118   |
| Mining Engineer                                     |  |
| Name :  | SRI AKHILESH SINHA,Full Time   |
| Qualification :                                     | B.E(Min)   |
| Appointment/ :<br>Termination date                  | 17/05/2010 30/07/2019  |
| Mining Engineer                                     |  |
| Name :  | Pradeep Kumar,Full Time  |
| Qualification :                                     |  |
| Appointment/ :<br>Termination date                  |  |
| Geologist   |  |
| Name :  | SHRI ABHISHEK KUMAR,Full Time  |
| Qualification :                                     | M.Sc (GEOLOGY)   |
| Appointment/ :<br>Termination date                  | 17/12/2008   |
| Manager   |  |
| Name :  | SRI TRIPURARI SINGH  |
| Qualification :                                     | MINES FOREMAN CERTIFICATE  |
| Appointment/ :<br>Termination date                  | 17/05/2010   |
| 6. Date of approval of Min<br>Plan/Scheme of Mining | ing : Existing rule 11 MCDR1988 03/03/1993<br>Mining Scheme rule 12 MCDR1988 30/03/2000<br>Renewal under rule 24 MCR1960 03/12/2004<br>Mining Scheme rule 12 MCDR1988 10/04/2012<br>FMCP under 23C(1) 26/02/2013<br>Mining Scheme rule 12 MCDR1988 19/12/2014<br>MP review under 17(1) MCR 2016 30/11/2017 |

### PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item  | Proposals  | Actual work  | Remarks  |
|--------|---|--|--|--|
| la     | Backlog of<br>previous year   | No Core<br>Boreholes has<br>been Proposed<br>during 2020-<br>2021  | As per proposal, No<br>boreholes has been<br>drilled during 2020-2021  | Original lease<br>area is 38.45<br>hectares, out of<br>which 20.46<br>hectares is forest<br>land and 5.85<br>hectares is non -<br>mineralized area.    |
| lb     | Exploration over<br>lease area for<br>geological axis 1<br>or 2                 | No Additional<br>exploration<br>was proposed<br>during 2020-<br>2021 in the<br>lease area<br>for<br>Geological<br>axis - 1   | No Additional<br>exploration was been<br>drilled in the lease<br>area during 2020- 2021  | 17 boreholes have<br>been drilled in<br>the lease area<br>during 1994 by<br>MECL and 10<br>boreholes during<br>2017-2018 by<br>Lessee.                 |
| lc     | Exploration<br>Agencies and<br>Expenditure in<br>lakh rupees<br>during the year | No Proposal<br>for<br>Exploration<br>during 2020-<br>2021  | Nil  | During 2017-2018,<br>10 boreholes with<br>167 meterage have<br>been drilled by<br>the Lessee. Having<br>minimum depth of<br>15m and maximum of<br>18m. |
| 1d     | Balance area to<br>be explored to<br>bring Geological<br>axis in 1 or 2         | No Additional<br>exploration<br>was been<br>drilled in<br>the lease<br>area during<br>2020- 2021   | No exploration was<br>carried out during 2020-<br>2021   | 17 + 10 boreholes<br>have been drilled<br>so far in the<br>lease area and 5.0<br>hectares has<br>explored to G-1.                                      |
| le     | Balance reserve<br>as on 01/04/20   | Reserves &<br>Resources as<br>on 01.04.2021<br>Proved<br>Mineral<br>Reserves<br>(111) = 52977<br>tons<br>Probable<br>Mineral<br>Resources<br>(122) = 80947<br>tons | Reserves & Resources as<br>on 01.04.2021<br>Proved Mineral Reserves<br>(111) = 74062 tons<br>Probable Mineral<br>Resources (122) = 80947<br>tons | Reserves and<br>Resources are<br>updated based on<br>the revised<br>threshold value.   |

1f General remarks Bauxite deposit is not It is part of of inspecting extensive and continuous Lease is having Chotanagpur officers on Granite but found in limited Same Geology. geology, Hence borehole has gneiss. area only. exploration etc to be drilled at Laterite, closer interval to Bauxite and Lithomerge get quantity and occur in the quality plateau top as capping of Chotanagpur Granite gneiss.

Development :

| Sl.No. | Item   | Propasals  | Actual work  | Remarks   |
|--------|--|--|--|---|
| 2a     | Location of<br>development<br>w.r.t.lease area   | Proposed to<br>work in<br>Quarry-2 & 3<br>during 2020-<br>2021.                                    | Development has been not<br>carried out as per the<br>proposal                                   | Violation has been<br>issued under Rule<br>11(1) on<br>22.02.2021 and<br>submitted<br>modification. |
| 2b     | Separate benches<br>in topsoil,<br>overburden and<br>minerals (Rule<br>15)                             | It is proposed<br>to form<br>Separate<br>Bench's in<br>Topsoil,<br>Overburden and<br>Mineral       | As per proposal benches are formed.  |   |
| 2c     | Stripping ratio<br>or ore to OB<br>ratio   | 1 : 0.10   | 1 : 0.83   |   |
| 2d     | Quantity of<br>topsoil<br>generation in m3   | to remove  | 29798 cu.m of topsoil<br>has been generated<br>during 2020-2021                                  |   |
| 2e     | Quantity of<br>overburden<br>generation in m3  | No OB has<br>proposed<br>during 2020-<br>2021 and 2379<br>cu.m of quarry<br>waste has<br>proposed. | 4250 cu.m of Quarry<br>waste has been removed.   |   |
| 2f     | General remarks<br>of inspecting<br>officers on<br>development of<br>pit w.r.t. type<br>of deposit etc | Proposed to<br>work in<br>Quarry-2 & 3<br>during 2020-<br>2021.                                    | 29798 cu.m of topsoil<br>and 4250 cu.m of Quarry<br>waste has been generated<br>during 2020-2021 | Violation has been<br>issued under Rule<br>11(1) on<br>22.02.2021 and<br>submitted<br>modification. |

Exploitation:

| Sl.No. | Item  | Propasals   | Actual work   | Remarks   |
|--------|---|---|---|---|
| 3a     | Number of pit<br>proposed for<br>production   | Proposed to<br>work in<br>Quarry-2 & 3<br>during 2020-<br>2021.                         | Production has been not<br>carried out as per the<br>proposal             | Violation has been<br>issued under Rule<br>11(1) on<br>22.02.2021 and<br>submitted<br>modification. |
| 3b     | Quantity of ROM<br>mineral<br>production<br>proposed  | The total<br>target of<br>Production was<br>49236 tons<br>during 2020-<br>2021.         | 41548 tons of production<br>have been achieved<br>during 2020- 2021.      |   |
| 3с     | Recovery of<br>sailable/usable<br>mineral from ROM<br>production  | 90%   | 83%   |   |
| 3d     | Quantity of<br>mineral reject<br>generation   | It is proposed<br>to produced<br>2379 cu.m of<br>mineral<br>rejects during<br>2020-2021 | 4250 cu.m of mineral<br>rejects has been<br>achieved                      |   |
| 3e     | Grade of mineral<br>rejects<br>generation and<br>threshold value<br>declared.                                     | Mineral<br>reject- below<br>the threshold<br>value and<br>outside the<br>ore zone.      | Mineral reject- below<br>the threshold value and<br>outside the ore zone. |   |
| 3f     | Quantity of sub<br>grade mineral<br>generation.   | No Sub Grade<br>Generation  | No Sub Grade Generation   |   |
| 3g     | Grade of sub<br>grade mineral<br>generation   | There is No<br>Generation of<br>Subgrade<br>Mineral                                     | There is No Generation<br>of Subgrade Mineral                             |   |
| 3h     | Manual /<br>Mechanised<br>method adopted<br>for segregating<br>from ROM   | Manual  | Manual  |   |
| 3i     | Any analysis or<br>beneficiation<br>study proposed<br>and carried out<br>for sub grade<br>mineral and<br>rejects. | No Proposal   | Nil   | Only Manual<br>Picking of Ore<br>from Intercalated<br>Waste.  |

| 3j | Provision of<br>drilling and<br>blasting in<br>mineral benches   | Spacing - 1m<br>Burden - 1m<br>Depth - 3m<br>It is Proposed<br>to drill by<br>115mm dia,<br>crawler<br>mounted down<br>hole drill.<br>Blasting is<br>done by using<br>Slurry<br>explosives. | Drilling & Blasting are<br>done as per proposal.  |  |
|----|--|---|---|--|
| 3k | Provision of<br>mining<br>machineries in<br>mineral benches  | Excavators<br>Tippers<br>Tractor<br>Jack Hammer<br>Air Compressor<br>Water Tanker   | As per proposal<br>machineries are<br>available in field.   |  |
| 31 | Whether height<br>of benches in<br>overburden and<br>mineral suitable<br>for method of<br>mining proposed<br>in MP/SOM | Bench height<br>of Soil/<br>Morrum will be<br>first bench<br>with 6m and 2m<br>was proposed<br>in Mineral.  | Benches are formed as per proposal.   |  |
| 3m | Total area<br>covered under<br>excavation/pits   | 0.73 hectares<br>are under Pit<br>during 2020-<br>2021.   | 0.66 hectares are under<br>Pit during 2020-2021.  |  |
| 3n | Ore to OB ratio<br>for the pit/mine<br>during the year.  | 1 : 0.10  | 1 : 0.83  |  |
| 30 | Total area put<br>in use under<br>different heads<br>at the end of<br>year   | Land use<br>Pattern as on<br>01.04.2021.<br>Quarry Face =<br>0.73 hect<br>Reclaimed =<br>4.84 hect<br>Reclaimed &<br>Planted area =<br>4.18 hect<br>Roads = 0.02<br>hect                    | Land use Pattern as on<br>01.04.2021.<br>Quarry Face = 0.66 hect<br>Reclaimed = 6.26 hect<br>Reclaimed & Planted area<br>= 3.43 hect<br>Roads = 0.02 hect | Quarry Face,<br>Backfilled area is<br>not tally with<br>field and<br>violation has<br>issued on<br>22.02.2021 and<br>submitted<br>modification |
| 3p | Production of<br>ROM mineral<br>during the last<br>five year period<br>as applicable                                   | 2020-2021 =<br>49236 tons<br>2019-2020 =<br>49439 tons<br>2018-2019 =<br>49898 tons<br>2017-2018 =<br>36180 tons<br>2016-2017 =<br>44839 tons   | 2020-2021 = 41548 tons<br>2019-2020 = 45545 tons<br>2018-2019 = 36037 tons<br>2017-2018 = 44624 tons<br>2016-2017 = 43675 tons                            |  |

| 3q | General remarks  | Mechanised | 41548 tons have been    |
|----|------------------|------------|-------------------------|
|    | of inspecting    | Method is  | achieved during 2020-   |
|    | officers on      | Proposed   | 2021 against 49236 tons |
|    | method of mining |            | of proposed production  |
|    | etc.             |            |                         |

Solid Waste Management - Dumping:

| Sl.No. | Item   | Propasals  | Actual work  | Remarks   |
|--------|--|--|--|---|
| 4a     | Separate dumping<br>of topsoil, OB<br>and mineral<br>rejects (Rule<br>32,33)   | There is no<br>proposal for<br>dumping during<br>2020-2021. It<br>is proposed to<br>backfill the<br>area<br>simultaneously |  | Violation has been<br>issued under Rule<br>11(1) on<br>22.02.2021 and<br>submitted<br>modification. |
| 4b     | Location of<br>topsoil, OB and<br>mineral reject<br>dumps                      | There is no<br>proposal for<br>dumping. It is<br>proposed to<br>backfill<br>Quarry-2 & 3<br>during 2020-<br>2021           | As per proposal the<br>backfilling has not<br>carried out.         | Violation has been<br>issued under Rule<br>11(1) on<br>22.02.2021 and<br>submitted<br>modification. |
| 4c     | Number of dumps<br>within lease<br>area and outside<br>of lease area           | Lease area<br>=Nil<br>Non Lease<br>area= Nil   | Lease area =Nil<br>Non Lease area= Nil                             | There is no<br>dumping and<br>backfill the area<br>simultaneously.                                  |
| 4d     | Location of<br>dumps w.r.t.<br>ultimate pit<br>limit (Rule 16)                 | There is no<br>proposal of<br>Dump.  | Nil  |   |
| 4e     | Number of active<br>and alive dumps.   | -  | There is no active dump<br>within lease area for<br>waste dumping. | Excavated area is<br>backfilled<br>simultaneously. So<br>dumping is not<br>proposed.                |
| 4f     | Number of dead<br>dumps.   | Dead Dumps =<br>Nil  | Dead Dumps = Nil   |   |
| 4g     | Number of dumps<br>established.  | No dumps have<br>been<br>established.  | No dumps have been<br>established.                                 |   |
| 4h     | Whether<br>Retaining wall<br>or garland drain<br>all along dumps<br>are there. | No Proposal  | Nil  |   |

| 4i | Length of<br>Retaining wall<br>or garland drain<br>all along dumps           | No Proposal  | Nil |   |
|----|--|--|-----|---|
| 4j | Number of<br>settling ponds  | No Proposal  | NIL |   |
| 4k | Specific<br>comments of<br>inspecting<br>officer on waste<br>dump management | There is no<br>proposal for<br>dumping during<br>2020-2021. It<br>is proposed to<br>backfill the<br>area<br>simultaneously |     | Violation has been<br>issued under Rule<br>11(1) on<br>22.02.2021 and<br>submitted<br>modification. |

Solid Waste Management - Backfilling:

| Sl.No. | Item  | Propasals  | Actual work  | Remarks   |
|--------|---|--|--|---|
| 5a     | Status of part<br>or full<br>extraction of<br>mineral from<br>mined out area<br>before starting<br>backfilling. | Simultaneously<br>Back filling<br>has proposed<br>to backfill<br>Quarry-2 & 3<br>during and<br>2020-2021                     | Simultaneously Back<br>filling was in process<br>and could not achieved<br>as per proposal |   |
| 5b     | Area under<br>backfilling of<br>mined out area  | It is proposed<br>to backfill<br>0.45 hectares<br>in Quarry-2<br>and 0.30<br>hectares in<br>Quarry-3<br>during 2020-<br>2021 | 0.66 hectares has<br>Backfilled against<br>proposal but in<br>unproposed area.             | Violation has been<br>issued under Rule<br>11(1) on<br>22.02.2021 and<br>submitted<br>modification. |
| 5c     | Concurrent use<br>of topsoil for<br>restoration or<br>rehabilitation<br>of mineral out<br>area (Rule 32)        | Concurrent use   | Concurrent use   |   |
| 5d     | Total area<br>fully reclaimed<br>and<br>rehabilitated   | Fully<br>Reclaimed and<br>Rehabilited =<br>7.33 hect   | Fully Reclaimed and<br>Rehabilited = 7.33 hect   |   |
| 5e     | General remarks<br>of inspecting<br>officers on<br>backfilling and<br>reclamation etc.                          | Back filling<br>has proposed<br>to backfill  | 0.66 hectares has<br>Backfilled during 2020-<br>2021                                       |   |

| Sl.No. | Item  | Propasals  | Actual work   | Remarks |
|--------|---|--|---|---------|
| ба     | Whether Annual<br>report on PMCP<br>submitted on<br>time and<br>correctly. Rule<br>23 E(2).                                     | It should be<br>on or before<br>1st July every<br>year.  | Submitted for the year 2020-2021.   |         |
| 6b     | Area available<br>for<br>rehabilitation<br>(ha) .   | 0.75 hectares  | 0.66 hectares   |         |
| 6c     | afforestation<br>done (ha).   | Proposed 0.68<br>hect in 2020-<br>2021   | 0.80 hectares has been<br>Afforested  |         |
| 6d     | No. of saplings<br>planted during<br>the year   | 1088 saplings<br>proposed in<br>Backfilled<br>area for 2020-<br>2021   | 1500 saplings have been achieved.   |         |
| бе     | Cumulative no<br>.of plants   | 800 nos of<br>saplings<br>proposed<br>during the<br>plan period<br>2014-2018 in<br>the backfilled<br>area and 2224<br>nos of<br>saplings<br>during 2018-<br>2021 | 1100 saplings have been<br>planted during 2014-2018<br>inside the backfilled<br>area and 3550 saplings<br>during 2018-2021. |         |
| 6f     | Any other method<br>of<br>rehabilitation  | No Proposal  | Nil   |         |
| бg     | Cost incurred on<br>watch and care<br>during the year   | 9.13 lakhs has<br>been proposed  | 11 Lakhs has spend  |         |
| 6h     | Compliance on<br>reclamation and<br>rehabilitation<br>by backfilling<br>(i) Voids<br>available for<br>backfilling ( Lx<br>B x D | 0.75 hectares  | 0.66 hectares   |         |
| бі     | Compliance on<br>reclamation and<br>rehabilitation<br>by backfilling<br>(ii) Voids<br>filled by waste<br>/ tailings             | No Proposal  | Nil   |         |

бi Compliance on Proposed 0.68 0.80 hectares has been reclamation and hect in 2020- Afforested rehabilitation 2021 by backfilling (iii)Afforestati on on backfilled area бk Compliance on No Proposal Nil reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir 61 Compliance on No Proposal Nil reclamation and rehabilitation by backfilling (v)any other specific means. Compliance of 1088 saplings 1500 saplings have been бm rehabilitation proposed in achieved. of waste land Backfilled within lease area for 2020-(i)afforestation 2021 Compliance of бn Proposed 0.68 0.80 hectares has been hect in 2020- Afforested rehabilitation of waste land 2021 within lease (ii)Area rehabilitation (ha) 60 Compliance of Simultaneously Simultaneously rehabilitation Backfilling Backfilling of waste land within lease (iii)Method of rehabilitation бр Compliance of Bi-Annually Environment monitoring environmental is carried out through Survey monitoring (core own as well as private zone and buffer agency. zone) бq General remarks Environment 1500 saplings have been 4650 saplings have of inspecting monitoring is achieved in 0.80 been planted officers on PMCP carried out hectares during 2020during 2014-2021 compliance and through own as 2021 in the backfilled progressive well as area. closure private operations etc. agency.

Mineral Conservation:

| 7a | ROM Mineral<br>dispatch or<br>grade-wise<br>sorting within<br>lease area                                 | The total<br>target of<br>Production was<br>49236 tons<br>during 2020-<br>2021.                         | 41548 tons of production<br>have been achieved<br>during 2020- 2021.                              |   |
|----|--|---|---|---|
| 7b | Method of grade-<br>wise mineral<br>sorting i.e.<br>manual or<br>mechanical.                             | Process and   | Mechanical Process and<br>Manual Picking of Ore<br>from Intercalated Waste                        |   |
| 7c | Different grade<br>of mineral<br>sorted out at<br>mines.   | Average<br>Grade:-<br>Al2O3 = 41.39%<br>SiO2 = 4.21%<br>Cut Off<br>Grade:-<br>Al2O3 = +30%<br>SiO2 = 5% | Average Grade:-<br>Al2O3 = 41.39%<br>Sio2 = 4.21%<br>Cut Off Grade:-<br>Al2O3 = +30%<br>Sio2 = 5% | Low grade are<br>Blended with High<br>grade ores to get<br>the desired plant<br>feed materials. |
| 7d | Any<br>beneficiation<br>process at mines   | Manually<br>sizing and<br>sorting are<br>proposed   | sorting and sizing is<br>being done   |   |
| 7e | General remarks<br>of inspecting<br>officer on<br>Mineral<br>conservation and<br>beneficiation<br>issues | 49236 tons  | 41548 tons of production<br>have been achieved<br>during 2020- 2021.                              | Low grade are<br>Blended with High<br>grade ores to get<br>the desired plant<br>feed materials. |

Environment:

| Sl.No. | Item   | Propasals   | Actual work  | Remarks |
|--------|--|---|--|---------|
| 8a     | Separate removal<br>and utilization<br>of topsoil (Rule<br>32)                     | removing<br>topsoil<br>separately and                   | Concurrent backfilling<br>and spreading of topsoil<br>over backfilled areas is<br>practiced for reclaimed<br>and rehabilitation of<br>mined out areas. |         |
| 8b     | Concurrent use<br>or storage of<br>topsoil   | Concurrent use  | Concurrent use   |         |
| 8c     | Separate dumps<br>for overburden,<br>waste rock,<br>rejects and<br>fines (Rule 33) | removing<br>topsoil<br>separately and<br>spreading over | Concurrent backfilling<br>and spreading of topsoil<br>over backfilled areas is<br>practiced for reclaimed<br>and rehabilitation of<br>mined out areas. |         |

| 8d | Use of<br>overburden,<br>waste rock,<br>rejects and<br>fines dumps for<br>restoring the<br>land to its<br>original use                 | The OB and<br>Waste<br>generated are<br>to be proposed<br>to backfilled<br>simultaneously<br>in the mined<br>out areas | Backfilling has done in<br>unproposed area and<br>restoring the land to<br>its original use. | Violation has been<br>issued under Rule<br>11(1) on<br>22.02.2021 and<br>submitted<br>modification. |
|----|--|--|--|---|
| 8e | Phased<br>restoration,<br>reclamation and<br>rehabilitation<br>of lands<br>affected by<br>mining<br>operations<br>(Pits, dumps<br>etc) | No Proposal  | Nil  |   |
| 8f | Baseline<br>information on<br>existence of<br>plantation and<br>additional<br>plantation done<br>(Rule 41)                             | 1088 saplings<br>has proposed<br>in 0.68<br>hectares<br>Backfilled<br>area for 2020-<br>2021                           | 1500 saplings have been<br>achieved in 0.80<br>hectares during 2020-<br>2021                 | 4650 saplings have<br>been planted<br>during 2015-2021<br>inside the<br>backfilled area.            |
| 8g | Survival rate  | No such<br>proposal in<br>the approved<br>document   | 80%  |   |
| 8h | Water sprinkling<br>on roads to<br>control airborne<br>dust  | proposed for   | Water sprinkling on road<br>is observed during the<br>inspection.                            |   |
| 8i | General remarks<br>of inspecting<br>officer on<br>aesthetic beauty<br>in and around<br>mines area                                      | at the top of  | -  |   |

Compliance of Rule 45:

| Sl.No. | Item  | Propasals                             | Actual work  | Remarks |
|--------|---|---------------------------------------|--|---------|
| 9a     | Status of<br>submission of<br>Monthly and<br>Annual returns | MR Submitted<br>up to = July<br>2021  | Both Annual & Monthly<br>returns are submitting<br>in online system. |         |
|        |   | AR Submitted<br>up to = 2020-<br>2021 |  |         |

9b Scrutiny of Mining As per record Mining Annual return Engineer and Engineer and Geologist for information Geologist has are present during on Mining Inspection shown Engineer, Geologist and Manager 9c Scrutiny of Land use Landuse Pattern is Annual return on Pattern as on filled as per approved land use pattern 01.04.2021. Mining Plan for area under Exploited area pits, reclaimed = 18.160 hect area, dumps etc. Reclaimed = 8.370 hect Current working = 7.160 hect 9d Scrutiny of 1500 saplings It is advised the lessee Annual return on have been to plant the saplings as afforestation planted within per the proposal. lease area and 500 saplings outside lease area during 2020-2021. 9e There is no There is no Mineral Scrutiny of Annual return on Mineral Rejects Generation mineral reject Rejects generation Generation (Grade and quantity) 9f Scrutiny of Bauxite Stock Mine has produced 41548 Annual return on as on tons of Production ROM stock and/or 01.04.2021 during 2020-2021 graded ore ROM Closing stock = Nil Dispatches of Processed ore 40% to below 45% Al2O3 = 1176 tons and 45% to below 50% Al203=40276 tons Scrutiny of It is captive mine of 9g Cost of Annual return on Production & Hindalco sale value, Ex. Ex. Mine Price Mine price and has shown production cost 9h Fixed Assets Fixed Assets is filled Scrutiny of Annual return on is given fixed assets

9k Scrutiny of Machineries As available in field Annual return on details given mining machineries

| Details of violations observed during current inspection and compliance position of violation pointed out |           |            |    |                     |                         |  |
|---|-----------|------------|----|---------------------|-------------------------|--|
| Violation observed  |           |            |    | Show couse position |                         |  |
| Rule NO.  | Issued on | Compliance | on | Rule NO.            | Issued on Compliance on |  |

#### Date :

### (G. S. KANNAN)

Indian Bureau of Mines