



Ref. No. GD/1082/126-A

Dated: 25.10.2018

The Additional Director,  
Government of India,  
Ministry of Environment, Forest & Climate Change,  
Eastern Regional Office,  
A/3, Chandrasekharpur,  
Bhubaneswar-751023

REGD. POST WITH A/D

Dear Sir,

Sub: Six monthly Environment Compliance Statements for the period Apr'18 to  
Sep'2018.

We are enclosing herewith the six monthly "Environmental Clearance Compliance Statement" along with compliance statement against the additional EC conditions. This is in respect of our Gomardih Dolomite Quarry of M/s Tata Steel Limited for the period from April'2018 to September'2018. We are monitoring the conditions laid both in general & specific category and the status of compliance for the period as mentioned above.

Thanking You.

Yours faithfully  
F: Tata Steel Limited

(Rajesh Kumar)  
Agen-Cum-Manager,  
Gomardih Dolomite Quarry

Encl: As above

Copy to: MOEF, Regional Office, A/3, Chandrasekharpur, Bhubaneswar, Odisha-751023- with a copy of enclosures.

: CPCB, Southern Conclave, Block 502, 5<sup>th</sup> & 6<sup>th</sup> Floors, 1582 Rajdanga Main Road, Nabapalli, Rajdanga Kasba, Kolkata-700107 W.B.- with a copy of enclosures.

: Member Secretary, OSPCB, Bhubaneswar- with copy of enclosures.

: Regional Officer, OSPCB, Sector-5, Rourkela, Odisha-769002- with a copy of enclosures.

### **TATA STEEL LIMITED**

Gomardih Dolomite Quarry, Tunmura-770070, Sundargarh, Odisha, India  
Tel: 7894449615 e-Mail: admingdq@tatasteel.com

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**Name of the project:**  
Gomardih Dolomite Quarry,  
Tata Steel Limited

**Project Code:**  
**Period of Compliance Report:**  
April 2018- Sept 2018

**Clearance Letter No.:**  
J-11015/5/92-IA-II(M) dated on  
18.05.1994

**Specific Conditions:**

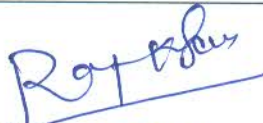
| Sl. No. | Conditions | Compliance Status |
|---------|------------|-------------------|
|         | Nil        | Nil               |
|         |            |                   |
|         |            |                   |

**General Conditions:**


| Sl. No.    | Conditions   | Compliance Status   |                 |                  |  |                 |                 |  |    |       |      |     |       |  |    |       |       |      |       |  |        |       |       |      |       |  |            |       |       |     |       |  |     |       |       |      |       |  |       |     |    |    |    |  |
|------------|--|---|-----------------|------------------|--|-----------------|-----------------|--|----|-------|------|-----|-------|--|----|-------|-------|------|-------|--|--------|-------|-------|------|-------|--|------------|-------|-------|-----|-------|--|-----|-------|-------|------|-------|--|-------|-----|----|----|----|--|
| 1          | This clearance is valid only for mining operation limited to 146.66 ha. (112.13 ha. of Gomardih Block and 34.53 ha. of Khotkuribahal Block), which includes the area under application for mining rights   | Mining operation in Gomardih Dolomite Quarry is being done in the area of 62.96 ha. (Surface rights) which comes within the area of 112.13 ha. of Gomardih Block (EC No. J-11015/5/92-IA-II(M) Dated 18 <sup>th</sup> May 1994)   |                 |                  |  |                 |                 |  |    |       |      |     |       |  |    |       |       |      |       |  |        |       |       |      |       |  |            |       |       |     |       |  |     |       |       |      |       |  |       |     |    |    |    |  |
| 2          | The levels of SPM concentration should not exceed 500 µg/m <sup>3</sup> at any station within the mine leasehold. Emission of SO <sub>2</sub> , NO <sub>2</sub> and CO should be maintained below the levels prescribed by competent authority. The measures suggested in the EMP in this regard should be strictly implemented. | <table border="1"> <thead> <tr> <th>Location</th> <th>PM<sub>10</sub></th> <th>PM<sub>2.5</sub></th> <th>SO<sub>2</sub></th> <th>NO<sub>2</sub></th> <th>*CP:-<br/>Crusher Plant,<br/>NH:- Near Hospital,<br/>VTC:-<br/>Vocational training centre<br/>**PM<sub>10</sub>(µg/m<sup>3</sup>), PM<sub>2.5</sub>(µg/m<sup>3</sup>), SO<sub>2</sub>(µg/m<sup>3</sup>), NO<sub>2</sub>(µg/m<sup>3</sup>)</th> </tr> </thead> <tbody> <tr> <td>CP</td> <td>69.28</td> <td>37.7</td> <td>6.2</td> <td>24.33</td> <td></td> </tr> <tr> <td>NH</td> <td>53.45</td> <td>27.07</td> <td>5.47</td> <td>21.33</td> <td></td> </tr> <tr> <td>Gate-1</td> <td>62.53</td> <td>32.93</td> <td>5.92</td> <td>23.75</td> <td></td> </tr> <tr> <td>Substation</td> <td>59.47</td> <td>30.62</td> <td>5.5</td> <td>24.55</td> <td></td> </tr> <tr> <td>VTC</td> <td>56.65</td> <td>29.48</td> <td>5.57</td> <td>23.45</td> <td></td> </tr> <tr> <td>Limit</td> <td>100</td> <td>60</td> <td>80</td> <td>80</td> <td></td> </tr> </tbody> </table> | Location        | PM <sub>10</sub> | PM <sub>2.5</sub>  | SO <sub>2</sub> | NO <sub>2</sub> | *CP:-<br>Crusher Plant,<br>NH:- Near Hospital,<br>VTC:-<br>Vocational training centre<br>**PM <sub>10</sub> (µg/m <sup>3</sup> ), PM <sub>2.5</sub> (µg/m <sup>3</sup> ), SO <sub>2</sub> (µg/m <sup>3</sup> ), NO <sub>2</sub> (µg/m <sup>3</sup> ) | CP | 69.28 | 37.7 | 6.2 | 24.33 |  | NH | 53.45 | 27.07 | 5.47 | 21.33 |  | Gate-1 | 62.53 | 32.93 | 5.92 | 23.75 |  | Substation | 59.47 | 30.62 | 5.5 | 24.55 |  | VTC | 56.65 | 29.48 | 5.57 | 23.45 |  | Limit | 100 | 60 | 80 | 80 |  |
| Location   | PM <sub>10</sub>   | PM <sub>2.5</sub>   | SO <sub>2</sub> | NO <sub>2</sub>  | *CP:-<br>Crusher Plant,<br>NH:- Near Hospital,<br>VTC:-<br>Vocational training centre<br>**PM <sub>10</sub> (µg/m <sup>3</sup> ), PM <sub>2.5</sub> (µg/m <sup>3</sup> ), SO <sub>2</sub> (µg/m <sup>3</sup> ), NO <sub>2</sub> (µg/m <sup>3</sup> ) |                 |                 |  |    |       |      |     |       |  |    |       |       |      |       |  |        |       |       |      |       |  |            |       |       |     |       |  |     |       |       |      |       |  |       |     |    |    |    |  |
| CP         | 69.28  | 37.7  | 6.2             | 24.33            |  |                 |                 |  |    |       |      |     |       |  |    |       |       |      |       |  |        |       |       |      |       |  |            |       |       |     |       |  |     |       |       |      |       |  |       |     |    |    |    |  |
| NH         | 53.45  | 27.07   | 5.47            | 21.33            |  |                 |                 |  |    |       |      |     |       |  |    |       |       |      |       |  |        |       |       |      |       |  |            |       |       |     |       |  |     |       |       |      |       |  |       |     |    |    |    |  |
| Gate-1     | 62.53  | 32.93   | 5.92            | 23.75            |  |                 |                 |  |    |       |      |     |       |  |    |       |       |      |       |  |        |       |       |      |       |  |            |       |       |     |       |  |     |       |       |      |       |  |       |     |    |    |    |  |
| Substation | 59.47  | 30.62   | 5.5             | 24.55            |  |                 |                 |  |    |       |      |     |       |  |    |       |       |      |       |  |        |       |       |      |       |  |            |       |       |     |       |  |     |       |       |      |       |  |       |     |    |    |    |  |
| VTC        | 56.65  | 29.48   | 5.57            | 23.45            |  |                 |                 |  |    |       |      |     |       |  |    |       |       |      |       |  |        |       |       |      |       |  |            |       |       |     |       |  |     |       |       |      |       |  |       |     |    |    |    |  |
| Limit      | 100  | 60  | 80              | 80               |  |                 |                 |  |    |       |      |     |       |  |    |       |       |      |       |  |        |       |       |      |       |  |            |       |       |     |       |  |     |       |       |      |       |  |       |     |    |    |    |  |
| 3          | The quality of effluent finally discharged into the main water course should conform to the standards prescribed under CSR 422 (E) dated 19.5.1993.  | <ul style="list-style-type: none"> <li>Gomardih Dolomite Quarry does not involve in any wet beneficiation &amp; processing of ROM</li> <li>No effluent is being discharged in our process</li> <li>Oil &amp; grease trap is present for trapping of oil traces in the water used for HEMM washing</li> </ul>  |                 |                  |  |                 |                 |  |    |       |      |     |       |  |    |       |       |      |       |  |        |       |       |      |       |  |            |       |       |     |       |  |     |       |       |      |       |  |       |     |    |    |    |  |
| 4          | Regular monitoring of air and water quality should be made in and around the core zone. The sampling points and frequency should be decided in consultation with State Pollution Control Board. The quarterly data should be furnished to Ministry regularly.  | <ul style="list-style-type: none"> <li>Ambient Air Quality is being monitored taking samples from 5(five) different locations as given below: <ul style="list-style-type: none"> <li>Near Sub-station</li> <li>Near First Gate of Mines</li> <li>Near Crusher Plant</li> <li>Near V.T. Centre</li> <li>Near Hospital</li> </ul> </li> <li>Water Quality is monitored taking samples from 4 (four) different locations as given below:- <ul style="list-style-type: none"> <li>Intake surface water: Intake point at Nakti Nala</li> </ul> </li> </ul>   |                 |                  |  |                 |                 |  |    |       |      |     |       |  |    |       |       |      |       |  |        |       |       |      |       |  |            |       |       |     |       |  |     |       |       |      |       |  |       |     |    |    |    |  |

  
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|                  |  | <ul style="list-style-type: none"> <li>• Drinking water: Tap water at Guest House</li> <li>• Mine Effluent: Mine discharge water</li> <li>• Domestic Effluent: Canteen effluent</li> </ul>  |      |                       |                         |                 |      |      |                  |      |      |
|------------------|--|---|------|-----------------------|-------------------------|-----------------|------|------|------------------|------|------|
| 5                | The authorities should implement adequate noise control measure as proposed in the EMP to keep the noise level within the prescribed limits.   | <p>Adequate noise control measures have been implemented at Gomardih. Different measures taken either to curb noise at the source or to subdue it are enumerated below.</p> <table border="1"> <thead> <tr> <th>Area</th> <th>Avg in day time dB(A)</th> <th>Avg in night time dB(A)</th> </tr> </thead> <tbody> <tr> <td>Industrial Area</td> <td>68.0</td> <td>58.1</td> </tr> <tr> <td>Residential Area</td> <td>51.3</td> <td>38.1</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>• Sound Proof cabin for HEMM</li> <li>• NONEL system of blasting to control the noise</li> <li>• Proper maintenance &amp; monitoring are being carried out to maintain noise prescribed limits.</li> <li>• Rubber liners provided at each transfer points like hopper and screen inside the crusher plant.</li> <li>• Schedule maintenance of all mining machinery is being done to control the noise.</li> <li>• Green belt developed for noise attenuation.</li> <li>• Ear Plug &amp; ear muffs are provided to the workers working in drilling operation &amp; blasting.</li> <li>• Employees are undergone periodical medical exam.</li> <li>• All the personnel are trained on safety in work place.</li> </ul> | Area | Avg in day time dB(A) | Avg in night time dB(A) | Industrial Area | 68.0 | 58.1 | Residential Area | 51.3 | 38.1 |
| Area             | Avg in day time dB(A)  | Avg in night time dB(A)   |      |                       |                         |                 |      |      |                  |      |      |
| Industrial Area  | 68.0   | 58.1  |      |                       |                         |                 |      |      |                  |      |      |
| Residential Area | 51.3   | 38.1  |      |                       |                         |                 |      |      |                  |      |      |
| 6                | No change in method of working (including Calendar Plan excavation), be made without prior consent of this Ministry.   | <ul style="list-style-type: none"> <li>• The Production of Dolomite ore has been restricted to the 0.816 MTPA (ROM) approved in the previous EC approved by the Ministry.</li> <li>• The mechanized opencast working is carried out as per the approved Mining Plan and subsequent schemes of mining. The present working of the mine is being carried out as per the Mining Plan approved vide letter No.MXXII(b)-14/20172303/DM dt.31.03.2018.</li> </ul>   |      |                       |                         |                 |      |      |                  |      |      |
| 7                | The reclamation plan and land use plan as envisaged in the EMP should be strictly implemented. Also green belt should be developed in other areas like mine colony interface. OBR area etc. to attenuate noise level and also to arrest fugitive dust. | <p>The reclamation plan and land use plan as envisaged in the EMP is being followed.</p> <ul style="list-style-type: none"> <li>• During the year, we have planted 880 numbers of saplings.</li> <li>• Total green belt area is 5.49ha and trees 27,900 Nos.</li> <li>• Beside above, the saplings planted at different locations of the mine like OB dump, northern lease boundary and around the mineral storage area are being maintained by watering and guarding. Similarly, the saplings planted along both side of the roads leading from Mine to Sonakhan railway siding and that connecting SH-10 and mine are being maintained. A team of gardeners have been engaged to take care of the plantation, park and garden inside the colony throughout the year to maintain greenery.</li> </ul>  |      |                       |                         |                 |      |      |                  |      |      |

  
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| 8  | Details of chemicals used for dust suppression with regard to their toxicity and the techniques employed for same should be furnished to the Ministry for observing the performance and non-toxicity of such methods.   | No chemical is used for dust suppression.   |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
|--|---|---|-------|--------------------------|---------------|----------|------------------|----------|--|-----------|-----------------------|----------|------------|-----------|---------------------|----------|-----------------------------------|----------|-----------------------------|--------|----------------------------|--------|--------------------------|------------------|
| 9  | Environmental Management cell has to be established to carry out functions relating to environmental management action plans. The head of the Cell should directly report to the Chief Executive.   | Gomardih Dolomite Quarry has a separate and dedicated team for carrying out environmental management action plan.<br>Team consists :-<br>Labour :- 2<br>Field assistant :- 1<br>Monitoring supervisor :- 1<br>Assistant Manager (HSE):- 1<br>Chemists :- 2  |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
| 10   | Adequate fund provision (capital and recurring expenditure) should be made for implementation of all safeguard measures and the funds should not be diverted for other purpose.   | <p>We have provided adequate fund for implementation of all safeguard measures. Details are as below.</p> <table border="1" data-bbox="816 779 1439 1469"> <thead> <tr> <th data-bbox="816 779 1180 853">Items</th> <th data-bbox="1180 779 1439 853">Expenditure: (2018-2019)</th> </tr> </thead> <tbody> <tr> <td data-bbox="816 853 1180 913">Afforestation</td> <td data-bbox="1180 853 1439 913">2,36,000</td> </tr> <tr> <td data-bbox="816 913 1180 974">Dust Suppression</td> <td data-bbox="1180 913 1439 974">5,59,656</td> </tr> <tr> <td data-bbox="816 974 1180 1034">Environment &amp; weather , exhaust monitoring</td> <td data-bbox="1180 974 1439 1034">11,17,410</td> </tr> <tr> <td data-bbox="816 1034 1180 1095">Drinking water Supply</td> <td data-bbox="1180 1034 1439 1095">9,71,838</td> </tr> <tr> <td data-bbox="816 1095 1180 1155">Sanitation</td> <td data-bbox="1180 1095 1439 1155">10,29,880</td> </tr> <tr> <td data-bbox="816 1155 1180 1216">Malaria eradication</td> <td data-bbox="1180 1155 1439 1216">1,34,284</td> </tr> <tr> <td data-bbox="816 1216 1180 1276">Garland drain &amp; storm water drain</td> <td data-bbox="1180 1216 1439 1276">1,81,000</td> </tr> <tr> <td data-bbox="816 1276 1180 1337">Environment awareness (EMS)</td> <td data-bbox="1180 1276 1439 1337">59,998</td> </tr> <tr> <td data-bbox="816 1337 1180 1397">Hazardous waste management</td> <td data-bbox="1180 1337 1439 1397">10,000</td> </tr> <tr> <td data-bbox="816 1397 1180 1469"><b>Total (in Rupees)</b></td> <td data-bbox="1180 1397 1439 1469"><b>39,24,766</b></td> </tr> </tbody> </table> | Items | Expenditure: (2018-2019) | Afforestation | 2,36,000 | Dust Suppression | 5,59,656 | Environment & weather , exhaust monitoring | 11,17,410 | Drinking water Supply | 9,71,838 | Sanitation | 10,29,880 | Malaria eradication | 1,34,284 | Garland drain & storm water drain | 1,81,000 | Environment awareness (EMS) | 59,998 | Hazardous waste management | 10,000 | <b>Total (in Rupees)</b> | <b>39,24,766</b> |
| Items                                      | Expenditure: (2018-2019)  |   |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
| Afforestation                              | 2,36,000  |   |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
| Dust Suppression                           | 5,59,656  |   |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
| Environment & weather , exhaust monitoring | 11,17,410   |   |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
| Drinking water Supply                      | 9,71,838  |   |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
| Sanitation                                 | 10,29,880   |   |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
| Malaria eradication                        | 1,34,284  |   |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
| Garland drain & storm water drain          | 1,81,000  |   |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
| Environment awareness (EMS)                | 59,998  |   |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
| Hazardous waste management                 | 10,000  |   |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
| <b>Total (in Rupees)</b>                   | <b>39,24,766</b>  |   |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
| 11   | The Ministry of any other concerned competent authority may stipulate any other conditions at any stage. The Ministry reserves the right to modify the conditions to revoke the approval. If necessary, either due to change in scope and consequent environmental scenario of feedback from field monitoring of the impacts. | No such conditions have been imposed so far.  |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |
| 12   | Environmental compliance status report vis-à-vis progress should be submitted for the scrutiny of this Ministry once in six months regularly.   | Environmental Condition compliance status report is furnished to the Ministry in every six months as per the EIA Notification, 2006. The six monthly report for the period of Oct-2017 to March-2018 was submitted to the Ministry vide letter no GD/592/126-A, dated.22.05.2018.   |       |                          |               |          |                  |          |  |           |                       |          |            |           |                     |          |                                   |          |                             |        |                            |        |                          |                  |

  
 Agent-Cum-Manager  
 Gomardih Dolomite Quarry  
 TATA STEEL LIMITED