



Ref. No. FAMD/GDQ/383/FY20

Dated: 28/JUN/2019

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

Dear Sir,

Sub: Six monthly Environment Compliance Statements for the period Oct'18 to
Mar'2019.

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 October'2018 to March' 2019. 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

Per 

Agent-Cum-Manager,
Gomardih Dolomite Quarry

Encl: As above

Copy to: MOEF, Regionl Office, A/3, Chandrasekharapur, Bhubaneswar, Odisha-751023- with a copy of enclosures.
: CPCB, Southern Conclave, Block 502, 5th & 6th 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 91 7894449615

Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001
Tel 91 22 66658282 Fax 91 22 66657724

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

Project Code:
Period of Compliance Report:
October 2018- March 2019

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

Specific Conditions:

Sr.No.	Conditions	Compliance Status

General Conditions:

Sr.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 th May 1994)																																										
2	The levels of SPM concentration should not exceed 500 µg/m ³ at any station within the mine leasehold. Emission of SO ₂ , NO ₂ 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>PM₁₀</th> <th>PM_{2.5}</th> <th>SO₂</th> <th>NO₂</th> <th>*CP:- Crusher Plant, NH:- Near Hospital, VTC:- Vocational training centre **PM₁₀(µg/m³), PM_{2.5}(µg/m³), SO₂(µg/m³), NO₂(µg/m³)</th> </tr> </thead> <tbody> <tr> <td>CP</td> <td>76.2</td> <td>44.7</td> <td>6.9</td> <td>25.3</td> <td></td> </tr> <tr> <td>NH</td> <td>57.8</td> <td>32.6</td> <td>6.2</td> <td>21.2</td> <td></td> </tr> <tr> <td>Gate-1</td> <td>70.5</td> <td>41.3</td> <td>6.7</td> <td>26</td> <td></td> </tr> <tr> <td>Substation</td> <td>66.4</td> <td>39</td> <td>6.5</td> <td>22.7</td> <td></td> </tr> <tr> <td>VTC</td> <td>62.45</td> <td>35.65</td> <td>6.46</td> <td>22.05</td> <td></td> </tr> <tr> <td>Limit</td> <td>100</td> <td>60</td> <td>50</td> <td>40</td> <td></td> </tr> </tbody> </table>	Location	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	*CP:- Crusher Plant, NH:- Near Hospital, VTC:- Vocational training centre **PM ₁₀ (µg/m ³), PM _{2.5} (µg/m ³), SO ₂ (µg/m ³), NO ₂ (µg/m ³)	CP	76.2	44.7	6.9	25.3		NH	57.8	32.6	6.2	21.2		Gate-1	70.5	41.3	6.7	26		Substation	66.4	39	6.5	22.7		VTC	62.45	35.65	6.46	22.05		Limit	100	60	50	40	
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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"> Gomardih Dolomite Quarry does not involve in any wet beneficiation & processing of ROM No effluent is being discharged in our process Oil & grease trap is present for trapping of oil traces in the water used for HEMM washing 																																										
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	<ul style="list-style-type: none"> Ambient Air Quality is being monitored taking samples from 5(five) different locations as given below: <ul style="list-style-type: none"> Near Sub-station Near First Gate of Mines Near Crusher Plant Near V.T. Centre Near Hospital 																																										

	furnished to Ministry regularly	<ul style="list-style-type: none"> Water Quality is monitored taking samples from 4 (four) different locations as given below:- <ul style="list-style-type: none"> Intake surface water: Intake point at Nakti Nala Drinking water: Tap water at Guest House Mine Effluent: Mine discharge water Domestic Effluent: Canteen effluent 									
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>67.55</td> <td>58.2</td> </tr> <tr> <td>Residential Area</td> <td>51.46</td> <td>38.36</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Sound Proof cabin for HEMM NONEL system of blasting to control the noise Proper maintenance & monitoring are being carried out to maintain noise prescribed limits. Rubber liners provided at each transfer points like hopper and screen inside the crusher plant Green belt developed for noise attenuation Ear Plug & ear muff are provided to the workers working in drilling operation & blasting Employees are undergone periodical medical exam All the personnel are trained on safety in work place 	Area	Avg in day time dB(A)	Avg in night time dB(A)	Industrial Area	67.55	58.2	Residential Area	51.46	38.36
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Industrial Area	67.55	58.2									
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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"> The Production of Dolomite ore has been restricted to the 0.816 MTPA (ROM) approved in the previous EC approved by the Ministry. 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. 									
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"> During the year, we have planted 2538 numbers of saplings Total green belt area is 5.49ha and trees 27900 Nos. 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. 									
8	Details of chemicals used for dust suppression with regard to	No chemical is used for dust suppression.									

	their toxicity and the techniques employed for same should be furnished to the Ministry for observing the performance and non-toxicity of such methods.																							
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. Team consists :- Labour :- 2 Field assistant :- 1 Monitoring supervisor :- 1 Assistant Manager (HSE):- 1 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.	We have provided adequate fund for implementation of all safeguard measures. Details are as below <table border="1" data-bbox="780 766 1397 1507"> <thead> <tr> <th>Items</th> <th>Expenditure: (Oct 2018-Mar 2019)</th> </tr> </thead> <tbody> <tr> <td>Afforestation</td> <td>11800</td> </tr> <tr> <td>Dust Suppression</td> <td>279828</td> </tr> <tr> <td>Environment & weather , exhaust monitoring</td> <td>1179766.50</td> </tr> <tr> <td>Drinking water Supply</td> <td>813000</td> </tr> <tr> <td>Sanitation</td> <td>708000</td> </tr> <tr> <td>Malaria eradication</td> <td>167000</td> </tr> <tr> <td>Garland drain & storm water drain</td> <td>90500</td> </tr> <tr> <td>Environment awareness (EMS)</td> <td>100000</td> </tr> <tr> <td>Hazardous waste management</td> <td>300000</td> </tr> <tr> <td>Total (in Rupees)</td> <td>3874094.5</td> </tr> </tbody> </table>	Items	Expenditure: (Oct 2018-Mar 2019)	Afforestation	11800	Dust Suppression	279828	Environment & weather , exhaust monitoring	1179766.50	Drinking water Supply	813000	Sanitation	708000	Malaria eradication	167000	Garland drain & storm water drain	90500	Environment awareness (EMS)	100000	Hazardous waste management	300000	Total (in Rupees)	3874094.5
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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	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 Apr-2018 to Sep-2018 was submitted to																						

	in six months regularly.	the Ministry vide letter no GD/1082/126-A, dated 25.10.2018.
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For 
Agent-Cum-Manager
Gomardih Dolomite Quarry
TATA STEEL LIMITED