

Ref: TML/KGP/ 100 / 2015-16

Date:-22.06.2015

To
Dr. S.Kerketta
Scientist "E"
Government of India
Ministry of Environment & Forests
Eastern Regional Office
A/3, Chandrashekharpur
Bhubaneswar – 751 023
Odisha

Dear Sir,

Sub: Six monthly Compliance Report for existing Pig Iron Plant & Sinter Plant at Mahespur, Kharagpur

Please find enclosed the Six Monthly Compliance report (Oct'14 to March'15) for existing **Pig Iron plant** (Environmental clearance no:- J-11011/601/2008-IA II (I) dated June24, 2009) as well as status report of **Sinter Plant** (Environmental clearance no:- J-11011/742/2008-IA II (I) dated 2nd January, 2009) for the condition stipulated in Environment Clearance to the Tata Metaliks Ltd at Mahespur, Kharagpur.

1. Pig Iron Production-'Fy-2010-11'- 306190T,'Fy-2011-12'-287501T,'Fy-2012-13'- 288511T. 'Fy-2013-14 ' - 302,998.90T. Fy-2014-15*(April14* to September14*) - 1,49,876.166 T
FY 2014 -15*- 2,92,575.179 T
2. Water Consumption of'2014-15 (Oct 14 to March 15*)'- 373023 KL, FY 14-15'-795592 KL
3. Power Consumption of Oct 14* to March 15*:- 25738400 Kwh, FY 14-15- 51911900 Kwh.
4. Sinter Production- FY 2014-15- 4,76,061.369 T

The copy of the compliance report is being sent to you as hard copy as well as soft copy and same also will be uploaded in the Tata Metaliks Ltd website.for your kind perusal.

Thanking you

Yours sincerely
For Tata Metaliks Limited

Debasis Misra
VP (Operation)

Enclosure – As above

A	SPECIFIC CONDITIONS for enhancement of (3,20,000TPA to 3,45,000TPA) Pig Iron :						
i.	On-line stack monitoring facilities for all the stacks and sufficient air pollution control equipments viz gas cleaning system, dust catcher, bag filters etc. shall be provided to control emissions from the blast furnace below 100 mg/Nm ³ .						
Com	On line stack monitoring facility has installed in all three stacks.						
ii.	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust extraction system with bag filters shall be provided at material handling areas, crushers, hoppers, vibratory screens, transfer points etc. All the conveyors shall be covered with GI sheets to prevent fugitive emissions. Further, specific measures like water sprinkling around the coal stockpiles and asphaltting or concreting of the roads shall be done to control fugitive emissions.						
Com	Main charging conveyor, all vibrating screens and the transfer points of other conveyors have been covered with GI sheets. Regular mobile water spraying in the plant area and asphaltting/concreting of about 75% of the road has been completed, to control fugitive emissions. Dry fog system commissioned in both RMHS at ground hopper and transfer hopper.						
iii.	Data on ambient air quality, stack emissions and fugitive emissions shall be regularly uploaded on the website of the company and submitted on-line to the Ministry's Regional Office at Bhubaneswar, West Bengal Pollution Control Board (WBPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months. Data on SPM, SO ₂ and NO _x shall also be displayed outside the premises at the appropriate place for the general public.						
Com	Please See annexure E						
iv.	Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.						
Com	Area	Month	SPM (mg/m ³) Limit- 10	RPM (mg/m ³) Limit- 5	SO ₂ (mg/m ³) Limit- 5	NO ₂ (mg/m ³) Limit- 6	
	Cast House	December 2014	1.022	0.327	0.031	0.055	
	Bunker House		1.217	0.295	0.029	0.049	
	SPCM		1.182	0.275	0.029	0.054	
v.	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. Vehicular emissions should be regularly monitored.						
Com	Raw material mainly transported through railway wagon. Only vehicles having proper Vehicular Emission Certificate are allowed to enter the plant premises.						
vi.	Effluent Treatment Plant (ETP) shall be installed for the treatment of process water. All the wastewater generated shall be treated, recycled and reused either in the process or for dust suppression, green belt development and various other activities at the site. No wastewater shall be discharged outside the factory premises and 'Zero' discharge shall be adopted.						
Com	All waste water generated from different processes are collected in a pond and is recycled for						

	slag granulation & pig quenching purposes. Average running hours of the pump, having capacity of 20 m ³ / hr is 16 hrs /day.
vii.	The company shall obtain the permission for drawl of ground water from CGWA/CGWB.
Com	Complied
viii.	The solid materials collected from pollution control equipment shall be suitably stored and supplied to nearby pig iron/steel plant having sinter plant. The project authorities shall make the agreement with user of Coke, coal fines and iron ore fines and copy of the agreement shall be submitted to Ministry's Regional Office at Bhubaneshwar. Used oil shall be sold to recyclers and reprocessors only.
Com	Used oils (4610 kg) also sold to certified re-processing agencies only from 1 st April 2014 to 30 th March 2015.
ix	The blast furnace slag shall be granulated and sold to the cement manufacturing units for further utilization. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner. A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal. .
Com	76093 MT granulated Slag sold to outside agency in Fy 14-15(October 14 to March 15*)*.
x	Green belt shall be developed in 33 % area in and around the plant as per the CPCB guidelines in consultation with DFO.
Com	1466 nos plants saplings of trees and shrubs planted on 2014-2015 (Oct14 to Mar15). Total plant area-197 acre & greenery developed area are approx 66 acre (33%).
xi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel sector shall be strictly implemented.
Com	Tata Steel Group of Companies, as a whole are taking necessary initiatives to adhere to the CREP recommendations.
xii	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
	Increase in production capacity is mainly on account of improved operations / process improvement resulting in 'Enhancement of Production' and hence it is not an Expansion Project. Thus these requirements are not applicable in the present instance.

	GENERAL CONDITIONS for enhancement of (3,20,000TPA to 3,45,000TPA) Pig Iron :
i	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB) and the State Government.
	Increase in production capacity is mainly on account of improved operations / process improvement resulting in 'Enhancement of Production' and hence it is not an Expansion Project. Thus these requirements are not applicable in the present instance.
ii	No further expansion or modifications in the plant shall be carried out without prior

	approval of the Ministry of Environment and Forests.														
Com	Noted for future compliance.														
iii	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Pollution Control Board (SPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.														
Com	Noted for compliance.														
iv	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office and the SPCB / CPCB once in six months.														
Com	Please See annexure E														
v	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Further, specific measures like water sprinkling around the coal stockpiles and asphaltting or concreting of the roads shall be done to control fugitive emissions.														
Com	Regular mobile water spraying(20000l/day)in the plant area and asphaltting/concreting of about 75% of the road has been completed, to control fugitive emissions.														
vi	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.														
Com	All waste water generated from different processes are collected in a pond and is recycled for slag granulation & pig quenching purposes. Average running hours of the pump, having capacity of 20 m ³ / hr is 16 hrs /day.														
vii	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).														
Com	<p>The overall noise levels in and around the plant area is within the standards (75 dBA). Date of sampling :-23rd December 2014</p> <table border="1"> <thead> <tr> <th>Sl no</th> <th>Area / Location</th> <th>Ambient Limit (dBA)</th> <th>Result (dBA)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ADM Building (Near Main Gate)</td> <td rowspan="3">75 dBA (day time)</td> <td>56.2- 59.5</td> </tr> <tr> <td>2</td> <td>Material Gate</td> <td>59.5- 62.9</td> </tr> <tr> <td>3</td> <td>Near Cycle Stand</td> <td>60.4- 63.9</td> </tr> </tbody> </table>	Sl no	Area / Location	Ambient Limit (dBA)	Result (dBA)	1	ADM Building (Near Main Gate)	75 dBA (day time)	56.2- 59.5	2	Material Gate	59.5- 62.9	3	Near Cycle Stand	60.4- 63.9
Sl no	Area / Location	Ambient Limit (dBA)	Result (dBA)												
1	ADM Building (Near Main Gate)	75 dBA (day time)	56.2- 59.5												
2	Material Gate		59.5- 62.9												
3	Near Cycle Stand		60.4- 63.9												
viii	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.														
Com	OCCUPATIONAL HEALTH CHECK-UP 2014-15 (As it is carried out from January to March in every														

year)			
Sl no	Name of Investigation	No Of Employees	
1	Blood Test (TC, DC, Hb%)	486	
2	Audiometry	456	
3	P. F. T.	485	
4	Eye Test	167	
5	Physical Health Check-Up	270	
6	Blood sugar test	82	
ix	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.		
	Pond for accumulation of rain water is already in place.		
x	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc. Suggestions made during the public hearing shall be implemented.		
Com	Community development activities are ingrained in the working of the Company. Community development programme (April 2014 to March 2015)		
	Sl No	Activity	Remarks
	1	Awareness camp on Addiction for Villagers.	215 villagers Awareness on addiction of alcohol
	2	Awareness camp on Sex Education for students (girls)	160 (Rainbow students) Students of class-VII to class- XII were attended the awareness session.
	3	BLOOD DONATION CAMP	85 Personnel Horlicks drinks, Tiffin packets & gifts distributed to the donors.
	4	Gynecological Check-Up Camp for Students	66 students Medicines were distributed accordingly.
	5	Awareness Camp on Maternal Health & Hygiene for mothers	30 Mothers Leaflets were distributed among audience.
	6	General Health Check-Up Camp for Villagers	224 Villagers Blood Sugar & Blood Pressure check-up done. Medicines were distributed accordingly.
xi	Adequate fund shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.		
Com	Though the enhancement in production capacity, is not in the form of a Project, Company regularly allocates funds for pollution control measures / monitoring & CSR activities. Company also ensures utilization of funds for allocated purposes.		
xii	The Regional Office of this Ministry / CPCB / SPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.		

Com	Noted for compliance.
xiii	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office.
Com	Noted for compliance.
xiv	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
Com	Enhancement in Production capacity has been achieved by way of process modification and not by way of a Project.

Annexure E

Date Of Sampling:- 22nd Dec to 23rd Dec 2014.

Ambient PM₁₀ Level

Sl	Area / Location	Limit ($\mu\text{g}/\text{m}^3$)	Result - ($\mu\text{g}/\text{m}^3$)
1	Near ADM Building	100	80.99 (Avg)
2	Near Guest House		86.66 (Avg)

Ambient SO₂ Level

Sl	Area / Location	Limit ($\mu\text{g}/\text{m}^3$)	Result - ($\mu\text{g}/\text{m}^3$)
1	Near ADM Building	80	19.42 (Avg)
2	Near Guest House		20.77 (Avg)

Ambient NO₂ Level

Sl	Area / Location	Limit ($\mu\text{g}/\text{m}^3$)	Result - ($\mu\text{g}/\text{m}^3$)
1	Near ADM Building	80	42.63 (Avg)
2	Near Guest House		44.94 (Avg)

Particulate Matter – **Date Of Sampling:- 22nd December 2014.**

Sl	Process attached to stack	Limit - mg/Nm ³	Result
1	MBF-1 Stove	100	15
2	MBF-2 Stove		18
3	Boiler		38