



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FORESTS &
CLIMATE CHANGE

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F. No: 5-34/2008Env) / 2161

Dated: 27th July, 2017

To

The Scientist 'F'
IA Division (Industry),
Ministry of Environment, Forest & Climate Change
Vayu Wing, 3rd Floor, Indira Paryavaran Bhawan,
Aliganj, Jorbagh Road,
New Delhi-110003

(Kind Attention: Shri Sharath Kumar Pallerla)

Sub: A report on the status of compliance of conditions stipulated in the environment clearance dated 19.02.2008 read with letter dated 21.12.2010 and 22.03.2011 accorded by the MOEF&CC, New Delhi to Mini Integrated Steel Plant of M/s Singhal Enterprises Private Limited in Taraimar Village in Raigarh District in the State of Chhattisgarh – regarding.

Ref: IA Division of the MoEF&CC, New Delhi's letter no. J.11011/195/2007-IA.II (I) dated 19.02.2008 read with letter dated 21.12.2010 and 23.03.2011.

Sir,

I am directed to refer to the above subject and letter under reference above wherein the IA Division of the MoEF&CC, New Delhi has accorded the environment clearance to the Mini Integrated Steel Plant of M/s Singhal Enterprises Private Limited in Taraimar Village in Raigarh District in the State of Chhattisgarh. The Project proponent vide their letter no. nil dated 18.03.2017 has requested the Regional Office for a certified compliance report in respect of conditions stipulated in the environment clearance dated 19.02.2008 read with letter dated 21.12.2010 and 23.03.2011. In this connection, it is to inform that a visit for the monitoring of compliance of conditions stipulated in the environment clearance has been conducted by the Regional Office on 20.05.2017. Major findings during the monitoring are given as under:

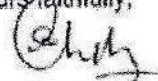
1. The PP has informed that some of the units for which EC has been accorded have been implemented and the remaining could not be implemented due to sluggish market conditions and non-availability of funds. Further, the environment clearance validity of 7 years has been expired on 19th February, 2015 and the proponent could not submit the request letter to the Ministry for the extension of the validity of EC before the expiry of validity period. Currently, production in their plant is being realized by the PP. Now a proposal has been submitted by the PP to the MoEF&CC for the permission to implement the unimplemented units as per the earlier EC accorded.
2. Following conditions were observed to be complied with partially by the PP:
 - i. Condition no. (i) of the specific conditions and condition no. (iii) of general conditions- electrostatic precipitators were not observed to be efficient as the smoke was visibly observed to be emitting from the stacks. The PP has informed that due to some technical glitches, the EP is not performing at desired efficiency and the same will be fixed. The PP has been advised to improve the efficiency to align the emissions of the PM within the prescribed limit. Examination of the instant level of the emissions, as available on online portal accessed in the office of the PP, revealed the same above average level. The PP has informed that increased level of emissions was due to technical issues with the EP and the same will be fixed to maintain the emissions within the permissible limits.
 - ii. Conditions no. (ii) & (iii) of specific condition and condition no. (iv) of general conditions- Measures installed by the PP to control fugitive emission needs to be further strengthen as the entire premises of the PP was observed to be laden with the dust. The PP has accordingly been advised to improve the efficiency of the environment protection measures, especially dust extraction system, water sprinkling and also good housekeeping practices to reduce the fugitive emission and also keep the premises tidy to the extent possible. Considerable secondary emissions were observed in the premises which further needs to be controlled by the PP.

- iii. Condition no. (vi) - It is informed that fly ash is being disposed of as per Fly Ash notification 1999, subsequent amendment in 2003 & 2009. However supporting detail regarding activities where fly ash is being utilized has not been made available by the PP.
 - iv. Conditions no. (vii) of the specific condition- No detail pertaining to the number of seedlings and area planted in the premises has been made available by the PP. During the inspection, it was observed that there is still scope for the plantation in the premises of the PP.
 - v. Conditions no. (viii) of the specific condition - Details of expenditure incurred on the environment protection measures has not been made available by the PP.
 - vi. Conditions no. (v) of General Conditions: It is observed that Ambient Air Quality Monitoring stations have been installed by the PP for the regular monitoring of air quality. However, no data on the air quality monitoring is recorded by the PP. To support their claim the PP has informed that since continuous online monitoring system has been installed the separate data on the ambient air quality is not collected. However, representative from the CECB and CPCB install their instruments and collects data on the AAQ. Details of the same has not been made available by the PP. The PP has been advised to keep a record of the regular data on the AAQM and submit the same to the Regional Office along with the compliance report.
 - vii. Condition no. (vii) of General condition - Detail of the monitoring of noise level during the day and night time has not been made available by the PP.
 - viii. Condition no. (viii) of General condition - Detail pertaining to the occupational health surveillance of the workers has not been made available by the PP.
 - ix. Condition no. (ix) of the General Conditions - Details of the expenditure incurred in the environment safeguards has not been made available by the PP.
 - x. No arrangements were observed to display the data RSPM, SO₂ and NO_x outside the premises at the appropriate place for the general public. The PP has ensured to install the same at the earliest.
 - xi. Stack height of the boiler was observed to be below 120 meters. The PP has been advised to keep the height of stack in accordance with the stipulation made in the EC dated 21.12.2010.
3. The PP has informed that no court cases in various courts of law are pending and no show cause notices has been issued by the CECB against their plant.
- A detailed report on the monitoring of the conditions stipulated in the environment clearance is enclosed herewith.

This issues with the approval of the Addl. PCCF (Central), Regional Office (West Central Zone) MoEF&C Nagpur.

Encl: as above

Yours faithfully,



Charan Jeet Singh
Scientist 'C'

Copy to:

1. Director RO HQ, Ministry of Environment, Forest & Climate Change, Government of India, 1st Floor Agni Wing, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi- 110 003.
2. Member Secretary, State Level Environment Impact Assessment Authority & Secretary, Housing and Environment Department, Government of Chhattisgarh, Mantralay Mahanadi Bhawan, New Raipur, Chhattisgarh
3. Director (Monitoring Cell), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi-110003
4. M/s Singhal Enterprises Private Limited, Singhal House-10, Sector 1, Shankar Nagar, Raipur - 492 007.
5. Guard File.



Charan Jeet Singh
Scientist 'C'

A REPORT ON THE STATUS OF COMPLIANCE OF CONDITIONS STIPULATED IN THE ENVIRONMENT CLEARANCE DATED 19.02.2008 READWITH 21.12.2010 AND 22.03.2011 ACCORDED BY THE MOEF&CC, NEW DELHI IN RESPECT TO MINI INTEGRATED STEEL PLANT OF M/S SINGHAL ENTERPRISES PRIVATE LIMITED IN TARAIMAR VILLAGE IN RAIGARH DISTRICT IN THE STATE OF CHHATTISGARH

1. Mini integrated steel plant of M/s Singhal Enterprises Pvt. Ltd at village Taraimal, District Raigarh in the state of Chhattisgarh had been accorded environment clearance by Ministry of Environment, Forests and Climate Change, New Delhi vide letter no. F. No. J.11011/195/2007-IA.II (I) dated 19.02.2008 read with letter dated 21.12.2010 and 23.03.2011 as per detail given below:

S. No.	Detail of environment clearance letter no.	Date	Capacity/Amendments
1.	J.11011/195/2007-IA.II (I)	19.02.2008	2,82,500 TPA
2.	J.11011/195/2007-IA.II (I)	21.12.2010	Environment clearance dated 19.02.2008 was amended due to change in the configuration of FBC based Power Plant from 1x8 MW and 2x25 MW FBC based captive Power Plant to 3x16 MW.
3.	J.11011/195/2007-IA.II (I)	22.03.2011	Environment clearance dated 19.02.2008 was amended due to change in configuration of DRI Kilns from 5x100 TPD, 3x40 TPD, 1x25 TPD to 6x100 TPD, 2x50 TPD and 1x40 TPD

2. The PP has informed that some of the units for which EC has been accorded have been implemented and the remaining could not be implemented due to sluggish market conditions and non-availability of funds. Further, the environment clearance validity of 7 years has been expired on 19th February, 2015 and the proponent could not submit the request letter to the Ministry for the extension of the validity of EC before the expiry of validity period. Currently, production in their plant is being realized by the PP. Now a proposal has been submitted by the PP to the MoEF&CC for the permission to implement the unimplemented units as per the earlier EC accorded. Following table represents the implementation status of the units for which EC has been accorded:

S. No	Details	Existing production Capacities Prior to issue of EC in 2008 (1)	Existing on for which EC Obtained on 19 th Feb.2008, and amended on 21 st Dec.2010 & 22 nd March 2011	Total Capacity after EC expansion after EC dated 19 th Feb 2008 and its amendments	Status of Implementation of Expansion Project for which EC accorded in Feb 2008 & amendments there of	Total Capacity in operation/under implementation as on Current Date	Units to be Implemented for EC sought
1.	DRI Kiln for Production of Sponge Iron	1,93,500 TPA	90,000 TPA	2,83,500 TPA	60,000 TPA	2,53,500 TPA in Operation	30,000 TPA
2.	Induction furnace with CCM & LRF	48,000 TPA	1,68,000 TPA	2,16,000 TPA	48,000 TPA	96,000 TPA in Operation	1,20,000 TPA
3.	Rolling Mill	---	90,000 TPA	90,000 TPA	---	Not implemented	---

4.	Ferro Alloy plant for production of Si-Mn	---	10,800 TPA	10,800 TPA	10,800 TPA	10,800 TPA	---
5.	Sinter Plant	---	2,59,200 TPA (1X50 M ²)	2,59,200 TPA (1X50 M ²)	---	Not implemented	2,59,200 TPA (1X50 M ²)
6.	Blast Furnace for production of Pig Iron	---	87,500 TPA (1X50 M ²)	87,500 TPA (1X50 M ²)	---	Not implemented	87,500 TPA (1X50 M ²)
7.	Coal Washery	---	1,50,000 TPA	1,50,000 TPA	---	1,50,000 TPA Applied for CTO	1,50,000 TPA
8.	Power Plant through WHRB	8 MW	8 MW	16 MW	---	8 MW in Operation	8 MW
9.	Power Plant through FBC Boiler	---	48 MW	48 MW	8 MW	8 MW under Operation & Installation of 1 X 18 MW is under construction	1X22 MW

3. Inspection on the status of monitoring of the conditions stipulated in the environment clearance has been conducted on 20.05.2017. A status report on the compliance of conditions stipulated in the environment clearance dated 19.02.2008 is given below

S. No.	EC condition details	Compliance status
	Specific Conditions	
i.	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. Online stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm ³ .	<p>Partially complied with</p> <p>It is observed that electrostatic precipitators have been installed at Sponge Iron kilns with WHRB based boilers and FBC Boiler. Ferro Alloys and Induction furnaces are equipped with fume extraction system and bag filters.</p> <p>The PP has informed that all the Electrostatic Precipitators and Bag filters are designed to achieve Particulate Matter emission level below 50 mg/ Nm³. However, during inspection, the electrostatic precipitators were not observed to be efficient as the smoke was visibly observed to be emitting from the stacks. The PP has informed that due to some technical glitches, the EP is not performing at desired efficiency and the same will be fixed. The PP has been advised to improve the efficiency to align the emissions of the PM within the prescribed limit.</p> <p>It is also observed that Continuous emission monitoring system has also been installed in Stacks attached to DRI kilns and FBC based boiler. However, examination of the instant level of the emissions, as available on online portal, revealed the same above average level. The PP has informed that increased level of emissions was due to technical issues with the EP and the same will be fixed to</p>

		maintain the emissions within the permissible limits. Details of the online emission monitoring is enclosed as Annexure-I
ii.	New DRI kiln shall be provided with waste heat recovery boiler (WHRB) to make use of flue gases generated during the process. Electrostatic Precipitator (ESP) shall be installed to waste heat recovery boiler (WHRB) and FBC boilers to control air emission to 100 mg/Nm ³ . Bag house to induction furnace (IF) and ladle furnace (LF) shall be provided. Fume extraction system with bag filters shall be provided to steel melt shop (SMS) to control fugitive emissions. Dust suppression system shall be provided in unloading areas. Dust extraction system with bag filters shall be provided in coal crushing and screening, cooler discharge area, product separation area etc. to control fugitive emissions.	<p>Being complied with</p> <p>It is observed that new DRI Kiln has not been provided by the PP. However, it is observed that following measures have been provided by the PP to minimize fugitive emissions:</p> <ol style="list-style-type: none"> Fume extraction system with bag filter is provided in induction furnace & ladle furnace. Cooler discharge, products house, intermediate bins and Crusher/ Stock house is equipped with bag filters. All the conveyors belts are covered throughout length. Internal roads are converted to cement roads. Regular water sprinkling is done <p>However, it is observed that measures installed by the PP to control fugitive emission needs to be further strengthen as the entire premises of the PP was observed to be laden with the dust. The PP has accordingly been advised to improve the efficiency of the environment protection measures, especially dust extraction system, water sprinkling and also good housekeeping practices to reduce the fugitive emission and also keep the premises tidy to the extent possible.</p>
iii.	Gaseous emission levels including secondary fugitive emission from blast furnace and sinter plant shall be controlled within the latest permission limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.	<p>Partially complied with</p> <p>The PP has informed that gaseous emission levels are being controlled within the latest permissible limits issued by the Ministry and is being monitored regularly as per the guidelines / Code of Practice issued by the CPCB is being followed by us. A monitoring report on the gaseous emission, as made available by the PP is enclosed at Annexure-I. However, during the inspection considerable fugitive emissions were observed in the premises of the PP due to poor housekeeping practices which further needs to be controlled by the PP.</p>
iv.	Total water requirement from Chuikansa nallah after expansion shall not exceed 14,058 m ³ /day. Closed cooling system shall be adopted in steel melt shop (SMS) and rolling mill. As reflected in the EIA/EMP report, DM and boiler blow down effluent shall be neutralized in neutralization tank and treated effluent shall be recycled into DRI plant and rolling mill as make up water and also used for ash conditioning, dust suppression and green belt development. The wastewater from coal beneficiation plant shall be reused for ash slurry preparation for the disposal of ash generated from AFBC boiler. All the treated wastewater shall be recycled and reused and Zero effluent discharge shall be ensured. No wastewater shall be discharged outside the premises. The domestic effluent shall be	<p>Being complied with</p> <p>The PP has informed that total water requirement, including requirement of expansion proposal, is 14,058 cum/day and requisite permission to draw water from Chuikansa Nallah has been obtained from Water Resource Department on 23rd June 2008.</p> <p>The PP has also informed that DM and boiler blow down effluent is being neutralized in neutralization tank and treated effluent is being recycled into DRI plant and Rolling mill as make up water and is also being used for ash conditioning, dust suppression and green belt development.</p> <p>The PP has also informed that wastewater to be generated from the coal beneficiation plant will be reused for ash slurry preparation for the disposal of ash generated from AFBC boiler, once coal beneficiated plant is commissioned.</p> <p>The PP has maintained the zero effluent discharge by reusing the waste water. The domestic effluent is being treated in septic tank followed by soak pit and is being used</p>

	treated in septic tank followed by soak pit and used for green belt development.	for green belt development.
v.	The iron ore, coal and scrap shall be recycled in the sinter plant. All the char/dolochar from DRI plant, coal, middlings and washery rejects from coal washery shall be utilized FBC boiler of power plant and no char shall be disposed off anywhere else. All the blast furnace (BF) slag shall be granulated and provided to the cement manufacturers for further utilization. Fly ash and bag filter dust from ESP of FBC boiler and WHRB shall be made available to the cement and brick making plants whereas bottom ash shall be disposed off in a suitably designed landfill as per CPCB guidelines to prevent leaching to the sub-soil and underground aquifer. All the other solid wastes including kiln accretions from DRI, slag from IF and Ferro Alloy plant shall be properly disposed off in environment-friendly manner. Waste oil shall be sold to authorized recyclers.	<p>Being complied with</p> <p>It is observed that installation of sinter plant and coal washery plant and blast furnace are yet to be commissioned by the PP in its premises. The PP has informed that iron ore, coal and scrap will be recycled in the Sinter Plant, once sinter plant is commissioned and Middlings and washery rejects will be utilised in FBC boiler, once coal washery plant is commissioned. It is also informed that blast furnace slag will be granulated and provided to the cement manufacturers of the region, once Blast furnace plant commissioned. It is observed that char/Dolochar generated from the DRI plant is being used in the FBC Plant. Fly ash and dust collected from the bag filters is being provided to the brick manufacturers.</p> <p>The PP has also informed that solid waste such as kiln accretion slag from DRI, Slag from IF & Ferro Alloys plant is being disposed of in environment-friendly manner and waste oil is being given to CECB authorized dealers.</p>
vi.	All the fly ash shall be utilized as per Fly Ash Notification 1999 subsequently amendment in 2003.	<p>Being complied with</p> <p>It is informed that fly ash is being disposed of as per Fly Ash notification 1999, subsequent amendment in 2003 & 2009. However supporting detail regarding activities where fly ash is being utilized has not been made available by the PP.</p>
vii.	As proposed, green belt shall be developed in 50 Ha. Out of total 137 Ha. (37 %) area within and around the plant premises as per the CPCB guidelines in consultation with DFO.	<p>Partially complied with</p> <p>The PP has informed that green belt has been developed in the 50 ha of land in their premises. However, growth of vegetation was observed to be stunted which is likely due to stacking of emissions on the leaves of the plants impeding with the process of photosynthesis and transpiration. The details pertaining to the number of seedlings and area planted in the premises has been made available by the PP in the Annexure II. During the inspection, it was observed that there is still scope for the plantation in the premises of the PP.</p>
viii.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel plants shall be implemented.	<p>Partially complied with</p> <p>Details of expenditure incurred on the environment protection measures has not been made available by the PP. However, detail of the same has not been provided.</p>
General conditions:		
i.	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the state government.	<p>Being complied with</p> <p>PP is complying with all the conditions stipulated in the Consent to Operate issued by CECB under Water and Air Act. The Regional Officer, Raigad has informed that conditions stipulated in the CTP are being complied with by the PP. A copy of the CTO is enclosed at Annexure-III.</p>
ii.	No further expansion or modification in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	<p>Being complied with</p> <p>The PP has agreed to consent with this condition.</p>
iii.	The gaseous emission from various process	Partially complied with

	<p>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 Board 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. The interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.</p>	<p>The PP has informed that gaseous emission from various process units conforms to the load / mass based standards notified by the Ministry on 19th May 1993 and standards prescribed from time to time. However, examination of the instant level of the emissions, as available on online portal assessed in the office of the PP, revealed the same above average level. The PP has informed that increased level of emissions was due to technical issues in the functioning of the EP and the same will be fixed to maintain the emissions within the permissible limits. Interlocking facilities have been reported to be provided by the PP in their plant to ensure that process get automatically stopped in case emission level exceeds the limit. However, the same appears to be not in proper function as despite inefficient proper functioning of ESP, the production operation in the plant was observed to be running.</p>
iv.	<p>In-plant control measures for checking fugitive emission from all the vulnerable sources like spillage / raw materials / coal handling etc. shall be provided. Further, specific measures like provision of dust suppression system consisting of water sprinkling, suction hoods, fans and bag filters etc. shall be installed at material transfer points and other raw material handling areas. Centralized de-dusting system i.e. collection of fugitive emissions through suction hood and subsequent treatment through bag filter or any other device and finally emitted through a stack of appropriately designed height conforming to the standards. Fugitive emission shall be regularly monitored and records maintained.</p>	<p>Partially complied with The PP has claimed that control measure for checking fugitive emission from all the vulnerable sources like spillage / raw materials / coal handling etc. is being provided. Dust suppression system consisting of water sprinkling, suction hoods, fans and bag filters etc. installed at material transfer points and other raw material handling areas. However, it is observed that measures installed by the PP to control fugitive emission needs to be further strengthen as the entire premises of the PP, including trees and their leaves, was observed to be laden with the dust. The PP has accordingly been advised to improve the efficiency of the environment protection measures, especially dust extraction system, water sprinkling and also good housekeeping practices to reduce the fugitive emission and also keep the premises tidy to the extent possible.</p>
v.	<p>At least four ambient air quality-monitoring stations should be establishment in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB / CPCB once in six months.</p>	<p>Partially complied with It is observed that Ambient Air Quality Monitoring stations have been installed by the PP for the regular monitoring of air quality. However, no data on the air quality monitoring is recorded by the PP. To support their claim the PP has informed that since continuous online monitoring system has been installed the separate data on the ambient air quality is not collected. However, representative from the CECB and CPCB install their instruments and collects data on the AAQ. Details of the same has not been made available by the PP.</p>
vi.	<p>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 from time to time. The treated wastewater shall be utilised for plantation purpose.</p>	<p>Being complied with The PP has informed that DM and boiler blow down effluent is being neutralized in neutralization tank and treated effluent is being recycled into DRI plant and Rolling mill as make up water and is also being used for ash conditioning, dust suppression and green belt development. The domestic waste water is being treated in septic tank followed by soak pit and is being used for green belt development. The PP has been advised to install mobile STP for the</p>

		treatment of domestic waste water.
vii.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noised 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).	Partially compiled with It is observed that turbine houses, compressor houses and other sources of noise within the premises of the PP have been provided with adequate silencer and acoustic enclosure for meeting the standard prescribed under EPA rules. However, detail of the monitoring of noise level during the day and night time has not been made available by the PP.
viii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Partially compiled with The PP has informed that occupational health surveillance of the workers is being done on a regular basis and records are being maintained as per the Factories Act. However, details of the same has not been made available by the PP.
ix.	The company shall develop surface water harvesting structure to harvest the rain water for utilization in the lean season beside recharging the ground water table.	Compiled with It is observed that 5 rain water harvesting pits have been provided by the PP in their premises for the storage of ground water. However, data on the monitoring of the ground water level has not been made available by the PP. The PP has been advised to keep a record to the data on the monitoring of the ground water level in consultation with the competent authority.
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 village like community development programmes, educational programmes, drinking water supply and health care etc.	Being compiled with The PP has informed environment safeguard measures as per EIA/EMP report have been implanted in the premises. The PP has also informed that the company has been continuously undertaking various community developments activities under its socio-economic development programme such as renovation of primary and secondary schools in nearby villages, providing financial assistances to educational institutions, construction of roads, providing drinking water, organization of free health camps in association with District Administration, etc.
xi.	The project authorities shall earmark Rs.35.0 Crores and Rs.1.50 Crores towards capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forest as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Ministry's Regional Office at Bhopal. The funds so provided should not diverted for any other purpose.	Partially compiled with The PP has informed that funds allocated for installation of pollution control equipment's and implementing the environmental protection measures is being utilized to fulfill the conditions stipulated by the Ministry of Environment and Forest as well as State Pollution Control Board. However, details of the expenditure incurred in the environment safeguards has not been made available by the PP.
xii.	The Regional Office of this Ministry at Bhopal / CPCB / CECB will monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	The PP has consented to this condition
xiii.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and	Compiled with Details of the advertisement is enclosed as Annexure IV.

	copies of the clearance letter are available with the CECB and may also be seen the Website of the Ministry of Environment and Forest at http://enfor.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 should be forwarded to the Regional Office.	
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.	The PP has consented to this condition
Compliance to the additional conditions stipulated in the Environment Clearance issued vide letter no. J-11011/195/2007 – IA II (I) dated 21.12.2010		
1.	Data on ambient air, stack and fugitive emission shall be regularly submitted online to Ministry's Regional Office at Bhopal, SPCB and Central Pollution Control Board as well as hard copy once six months and display data on RSPM, SO ₂ and NO _x outside the premises at the appropriate place for the general public.	Partially complied with No arrangements were observed to display the data RSPM, SO ₂ and NO _x outside the premises at the appropriate place for the general public.
2.	The National Ambient Air Quality Standards issued by the Ministry vide GSR No. 826 (E) dated 16th November 2009 shall be followed.	The PP has consented to this condition.
3.	The stack height of the boiler shall be 120 m.	Not complied with Stack height of the boiler was observed to be below 120 meters. .
4.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of the monitored data (both in hard copies as well by email) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhopal /CPCB/SPCB shall monitor the stipulated conditions.	The PP has consented to this condition and an undertaking in compliance to this condition has not been submitted.
5.	The environmental statement for each financial year ending 31st March in Form – V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also	Being combined with The PP has informed that Environmental Statement in Form – V is being regularly submitted. However, detail of the same has not been made available by the PP.

	be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MoEF by email.	
Compliance to the additional conditions stipulated in the Environment Clearance issued vide letter no. J-11011/195/2007 – IA II (I) dated 22.03.2011		
1.	The company shall comply with all conditions stipulated vide Ministry's letters of even no. dated 19-02-2008 and 21-12-2010	The PP has consented to this condition and an undertaking in compliance to this condition has not been submitted
2.	The overall capacity of the sponge iron production shall remain 2,82,000 TPA	The PP has consented to this condition and an undertaking in compliance to this condition has not been submitted
3.	In case of change in the scope of the project, the company shall obtain fresh environmental clearance as per the EIA Notification, 2006 and its subsequent amendments.	The PP has consented to this condition and an undertaking in compliance to this condition has not been submitted

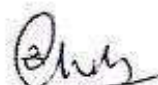
4. From the examination of the above, following is observed:

Conditions complied with partially by the PP

- i. Condition no. (i) of the specific conditions and condition no. (iii) of general conditions- electrostatic precipitators were not observed to be efficient as the smoke was visibly observed to be emitting from the stacks. The PP has informed that due to some technical glitches, the EP is not performing at desired efficiency and the same will be fixed. The PP has been advised to improve the efficiency to align the emissions of the PM within the prescribed limit. Examination of the instant level of the emissions, as available on online portal accessed in the office of the PP, revealed the same above average level. The PP has informed that increased level of emissions was due to technical issues with the EP and the same will be fixed to maintain the emissions within the permissible limits.
- ii. Conditions no. (ii) & (iii) of specific condition and condition no. (iv) of general conditions- Measures installed by the PP to control fugitive emission needs to be further strengthen as the entire premises of the PP was observed to be laden with the dust. The PP has accordingly been advised to improve the efficiency of the environment protection measures, especially dust extraction system, water sprinkling and also good housekeeping practices to reduce the fugitive emission and also keep the premises tidy to the extent possible. Considerable secondary emissions were observed in the premises which further needs to be controlled by the PP.
- iii. Condition no. (vi) - It is informed that fly ash is being disposed of as per Fly Ash notification 1999, subsequent amendment in 2003 & 2009. However supporting detail regarding activities where fly ash is being utilized has not been made available by the PP.
- iv. Conditions no. (vii) of the specific condition- No detail pertaining to the number of seedlings and area planted in the premises has been made available by the PP. During the inspection, it was observed that there is still scope for the plantation in the premises of the PP.
- v. Conditions no. (viii) of the specific condition - **Details of expenditure incurred on the environment protection measures has not been made available by the PP.**
- vi. **Conditions no. (v) of General Conditions:** It is observed that Ambient Air Quality Monitoring stations have been installed by the PP for the regular monitoring of air quality. However, no data on the air quality monitoring is recorded by the PP. To support their claim the PP has informed that since continuous online monitoring system has been installed the separate data on the ambient air quality is not collected. However, representative from the CECB and CPCB install their instruments

and collects data on the AAQ. Details of the same has not been made available by the PP. The PP has been advised to keep a record of the regular data on the AAQM and submit the same to the Regional Office along with the compliance report.

- vii. **Condition no. (vii) of General condition** - Detail of the monitoring of noise level during the day and night time has not been made available by the PP.
- viii. **Condition no. (viii) of General condition** - Detail pertaining to the occupational health surveillance of the workers has not been made available by the PP.
- ix. **Condition no. (ix) of the General Conditions** - Details of the expenditure incurred in the environment safeguards has not been made available by the PP.
- x. No arrangements were observed to display the data RSPM, SO₂ and NO_x outside the premises at the appropriate place for the general public. The PP has ensured to install the same at the earliest.
- xi. Stack height of the boiler was observed to be below 120 meters. The PP has been advised to keep the height of stack in accordance with the stipulation made in the EC dated 21.12.2010.
- xii. The PP has informed that no court cases in various courts of law are pending and no show cause notices has been issued by the CECB against their plant.



Charan Jeet Singh
Scientist 'C'



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FORESTS &
CLIMATE CHANGE

Regional Office (WCZ)
Ground Floor, East Wing
New Secretariat Building
Civil Lines, Nagpur - 440001
apccfcentral-ngp-mef@gov.in

F. No: 5-34/2008Env/ 2885

Dated: 15th November, 2017

To

The Scientist 'F'
IA Division (Industry),
Ministry of Environment, Forest & Climate Change
Vayu Wing, 3rd Floor, Indira Paryavaran Bhawan,
Aliganj, Jorbagh Road,
New Delhi-110003

(Kind Attention: Shri Sharath Kumar Pallerla)

Sub: A report on the status of compliance of conditions stipulated in the environment clearance dated 19.02.2008 read with letter dated 21.12.2010 and 22.03.2011 accorded by the MOEF&CC, New Delhi to Mini Integrated Steel Plant of M/s Singhal Enterprises Private Limited in Taraimar Village in Raigarh District in the State of Chhattisgarh – regarding.

Ref: IA Division of the MoEF&CC, New Delhi's letter no. J.11011/195/2007-IA.II (I) dated 19.02.2008 read with letter dated 21.12.2010 and 23.03.2011.

Sir,

I am directed to refer to the above subject and letter under reference above wherein the IA Division of the MoEF&CC, New Delhi has accorded the environment clearance to the Mini Integrated Steel Plant of M/s Singhal Enterprises Private Limited in Taraimar Village in Raigarh District in the State of Chhattisgarh and Regional Office of the MoEF&CC's letter of even number dated 27.07.2017 wherein a monitoring report on the status of compliance of conditions stipulated in the environment clearance dated 19.02.2008, along with observations of the Regional Office was forwarded to the IA Division of the MoEF&CC, New Delhi.

In this connection, it is to inform that project proponent vide their letter dated 31.10.2017 forwarded reply to the observation of the Regional Office. The project proponent in its reply has submitted the corrective measures and updated compliance along with justification for not complying and partially complying the conditions as per the observations of the Regional Office. A copy of the reply received from the User Agency is enclosed herewith for further necessary action in the matter.

Encl: as above

Yours faithfully,


Charan Jeet Singh
Scientist 'C'

Copy to:

1. Director RO HQ, Ministry of Environment, Forest & Climate Change, Government of India, 1st Floor Agni Wing, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi- 110 003.
2. Member Secretary, State Level Environment Impact Assessment Authority & Secretary, Housing and Environment Department, Government of Chhattisgarh, Mantralay Mahanadi Bhawan, New Raipur, Chhattisgarh
3. M/s Singhal Enterprises Private Limited, Singhal House-10, Sector 1, Shankar Nagar, Raipur – 492 007.
4. Guard File.


Charan Jeet Singh
Scientist 'C'

Singhal Enterprises Pvt. Ltd.

• SPONGE • POWER • STEEL •

Ref. No.

Date.

Date: 04-11-2017

To,
The Director (IA Division Industry – 1)
Ministry of Environment and Forest, Climate Change
Vayu Wing, 3rd Floor, Indira Paryavaran Bhawan,
Aliganj, Jorbagh Road,
New Delhi - 110003

Sub: Issue of Certified Compliance Report on the conditions stipulated in existing Environmental Clearance issued to Singhal Enterprises Pvt. Ltd. at Taraimal Village, Tamnar Tehsil (Formerly Gharghoda), Raigarh District, Chhattisgarh – *Submission of Action taken report for Non-Compliance raised – Reg.*

Ref:

1. Environmental Clearance issued by MoEF vide no. J-11011 / 195 / 2007 – IA II (I) dated 19-02-2008, 21-12-2010 & 22-03-2011
2. TOR letter issued by MoEF&CC vide no. J-11011/195/2007-IA II(I) dated 2nd August 2016
3. Certified Compliance Report vide F.No.5-34/2008 Env/2161 dated 27th July 2017 issued by RO, MoEF&CC, Nagpur

Respected Sir,

We thank your good office for issuing us the Certified Compliance Report for our existing Environment Clearance issued by MoEF vide no. J-11011 / 195 / 2007 – IA II (I) dated 19-02-2008, 21-12-2010 & 22-03-2011.

With reference to the above, we are here with submitting the Action taken report for Non-Compliances raised during RO, MoEF&CC, Nagpur visit (vide Reference 3 above):

S.No.	Non Compliance raised	Action taken
i.	Condition no. (i) of the specific conditions and condition no. (iii) of general conditions- electrostatic precipitators were not observed to be efficient as the smoke was visibly observed to be emitting from the stacks.	We would like to inform that during the visit, there was some technical glitches in the ESP, due to which it was not performing at desired efficiency. Now the same is has been rectified and now functioning at desired efficiency. Please find the Annexure - 1 for Stack

Page 1 of 5

S.No.	Non Compliance raised	Action taken
	<p>The PP has informed that due to some technical glitches, the ESP is not performing at desired efficiency and the same will be fixed. The PP has been advised to improve the efficiency to align the emissions of the PM within the prescribed limit. Examination of the instant level of the emissions, as available on online portal accessed in the office of the PP, revealed the same above average level. The PP has informed that increased level of emissions was due to technical issues with the ESP and the same will be fixed to maintain the emissions within the permissible limits.</p>	<p>monitoring report for all the stacks carried out by Chhattisgarh Environment Conservation Board (CECB).</p> <p>Interlocking facilities have been kept in place fully functional (i.e. so that whenever the Particulate Matter (Dust) from the ESP exceeds the standards, the plant will automatically shutdown).</p>
ii.	<p>Conditions no. (ii) & (iii) of specific condition and condition no. (iv) of general conditions- Measures installed by the PP to control fugitive emission needs to be further strengthen as the entire premises of the PP was observed to be laden with the dust. The PP has accordingly been advised to improve the efficiency of the environment protection measures, especially dust extraction system, water sprinkling and also good housekeeping practices to reduce the fugitive emission and also keep the premises tidy to the extent possible. Considerable secondary emissions were observed in the premises which further needs to be controlled by the PP.</p>	<p>We would like inform that following system have been improved:</p> <ul style="list-style-type: none"> a) All the conveyers are fully covered and no dust is coming out from the conveyance system. Please find Annexure – 2 for photographs showing Covered Conveyers System. b) Water Sprinkling System - All nozzles are checked thoroughly and replaced wherever required. Now working properly. Please find the Annexure – 3 for photographs showing Water Sprinkling system. c) We do here by confirm that we will maintain Good housekeeping practices in the entire plant premises by as providing dust cleaning system and very frequent cleaning of dust in the entire plant by appointing 8 – 10 people exclusive for Housekeeping. Please find the Annexure – 4 for photograph showing dust cleaning system.
iii.	<p>Condition no, (vi) - It is informed that fly ash is being disposed of as per Fly Ash</p>	<p>Fly ash generated from the plant is being utilized in the own brick manufacturing unit</p>

S.No.	Non Compliance raised	Action taken																												
	notification 1999, subsequent amendment in 2003 & 2009, However supporting detail regarding activities where fly ash is being utilized has not been made available by the PP.	and also being given to nearby Brick manufacturers. Please find the Annexure – 5 for Records and dispatch voucher for the same.																												
iv.	Conditions no. (vii) of the specific condition- No detail pertaining to the number of seedlings and area planted in the premises has been made available by the PP. During the inspection, it was observed that there is still scope for the plantation in the premises of the PP.	This monsoon we have developed more plantation as per the advice of RO, MoEF&CC. Now, greenbelt has been developed in an area of 50 Ha. in the premises. Please find Annexure - 6 for photographs showing Greenbelt in the plant premises. Please find Annexure - 7 for details pertaining to the number of seedling and area planted in premises.																												
v.	Conditions no. (viii) of the specific condition - Details of expenditure incurred on the environment protection measures has not been made available by the PP.	Please find the Annexure – 8 for details expenditure incurred on Environment Protection Measures																												
vi.	Conditions no. (v) of General Conditions: It is observed that Ambient Air Quality Monitoring stations have been installed by the PP for the regular monitoring of air quality. However, no data on the air quality monitoring is recorded by the PP. To support their claim the PP has informed that since continuous online monitoring system has been installed the separate data on the ambient air quality is not collected. However, representative from the CECB and CPCB install their instruments and collects data on the AAQ. Details of the same has not been made available by the PP. The PP has been advised to keep a record of the regular data on the AAQM and submit the same to the Regional Office along with the compliance report.	Please find the Annexure – 9 for data on Ambient Air Quality Monitoring. Following are the AAQ Monitoring Station: <table><tr><th>S.No.</th><th>AAQ Location</th><th>Direction</th><th>Distance</th></tr><tr><td>1</td><td>Near Weigh Bridge</td><td>---</td><td>---</td></tr><tr><td>2</td><td>Near Power Plant</td><td>---</td><td>---</td></tr><tr><td>3</td><td>Near SEPL Colony</td><td>---</td><td>---</td></tr><tr><td>4</td><td>Near Boundary Wall</td><td>---</td><td>---</td></tr><tr><td>5</td><td>Taraimal</td><td>SE</td><td>1.0 Kms.</td></tr><tr><td>6</td><td>Near Banjari Temple</td><td>NW</td><td>0.3 Kms.</td></tr></table> We do here by confirm that we will maintain the record at the plant premises also.	S.No.	AAQ Location	Direction	Distance	1	Near Weigh Bridge	---	---	2	Near Power Plant	---	---	3	Near SEPL Colony	---	---	4	Near Boundary Wall	---	---	5	Taraimal	SE	1.0 Kms.	6	Near Banjari Temple	NW	0.3 Kms.
S.No.	AAQ Location	Direction	Distance																											
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vii.	Condition no. (vii) of General condition -	We would like to inform your goodselves that																												

S.No.	Non Compliance raised	Action taken
	Detail of the monitoring of noise level during the day and night time has not been made available by the PP.	Noise level monitoring is being carried out regularly. However, no proper record was maintained earlier. We do here by confirm, that from now onwards we will maintain proper record in the plant premises. Please find Annexure – 10 for monitoring report.
viii.	Condition no. (viii) of General condition - Detail pertaining to the occupational health surveillance of the workers has not been made available by the PP.	We would like to inform that Occupational Health Surveillance of workers is being carried out regularly and records are being maintained. Please find the Annexure – 11 (a) for Sample Health report of employee and Annexure - 11 (b) for photographs showing Occupational Health Centre.
ix.	Condition no. (ix) of the General Conditions - Details of the expenditure incurred in the environment safeguards has not been made available by the PP.	Please find the Annexure – 8 for details of expenditure incurred in the environment safeguards in the plant premises.
x.	No arrangements were observed to display the data RSPM, SO ₂ and NO _x outside the premises at the appropriate place for the general public. The PP has ensured to install the same at the earliest.	We would like to inform you goodselves, that we have provided a 6 x 4 feet board outside the premises at the entrance gate for displaying data pertaining to RSPM, SO ₂ and NO _x . But in the due course time, board got damaged. Now we have provided new board outside the premises at the entrance gate. Please find the Annexure – 12 showing photograph of the display board.
xi.	Stack height of the boiler was observed to be below 120 meters. The PP has been advised to keep the height of stack in accordance with the stipulation made in the EC dated 21.12.2010	We have calculated the stack height (sulphur dioxide emissions) as per CPCB norms by using following equation $\text{Stack height} = 14 (Q)^{0.3}$ [where, Q is the emission rate of SO ₂ in kg/hr] Stack height of 120 m is mentioned inadvertently in the EC issued dt. 21.12.2010 Hence it is not applicable. Please refer to Annexure – 14 regarding stack height.
xii.	Condition no. (ix) of General condition – Data on monitoring of Ground water	Currently we are using water from Chuikansa Nallah which is about 2.5 Km away from our

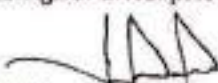
S.No.	Non Compliance raised	Action taken
	level has not been made available by the PP.	site. A dedicated pipeline has already been laid from the river to the site. However we would like to inform your good office that we will install Peizometer within 3 months time to monitor Ground water level in the plant premises.
xiii.	Condition no. (4) of Additional Conditions stipulated in the EC issued vide letter J-11011/195/2007- IA II (I) dated 21-12-2010 – submission of six monthly compliance report to Respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	We do here by confirm that from now onwards we will submit the six monthly compliance report (both hard copies as well as email)
xiv.	Condition no. (5) of Additional Conditions stipulated in the EC issued vide letter J-11011/195/2007- IA II (I) dated 21-12-2010 – submission of Environmental Statement (Form V) for each financial year to concerned SPCB	We are submitting the Form V to CECB regularly. Please find the Annexure - 13 for acknowledgement of latest Form V submitted to CECB.

Please find herewith the action taken report for Non-Compliances and hope you will find the same in order.

Thanking you,

Yours faithfully,

For: Singhal Enterprises Pvt. Ltd.


Director

Copy to:

1. Shri. Charan Jeet Singh, Scientist - C, Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur - 440001.