

# AARTI STEELS LIMITED

## STEEL & POWER

An ISO 9001, 14001 & OHSAS 18001  
Certified Company

Office : Plot No. 18/1B, Sector-10, CDA  
Cuttack – 753 014, (Orissa) India  
Phone : +91-671-3061000, 2309285,  
Fax : +91-671-3061150, 2309407  
E-mail : [cuttack@aartisteelsltd.com](mailto:cuttack@aartisteelsltd.com) ; [aartisteel@sify.com](mailto:aartisteel@sify.com)

Ref: ASL/SP/MOEF/Env./

Date: 19.05.2012

To

**The Chief Conservator of Forests (C),**  
Government of India, Ministry of Environment & Forests,  
Eastern Regional Office, A/3, Chandrasekharpur,  
Bhubaneswar – 751023, Fax: 0674-2302432

**Sub: Compliance Status of Specific & General conditions of environmental clearance letter no. J-11011 / 287 / 2008-IA II(I) dated 13.05.2009 issued by Ministry of Environment & Forests, Govt. of India to the expansion project by M/s Aarti Steels Limited at village Ghantikhal in dist. Cuttack in Orissa-reg.**

Ref: Environmental Clearance letter no. J-11011 / 287 / 2008-IA II (I) dated 13.05.2009

Dear Sir,

With reference to above, please find enclosed the status of compliance for the period from 01.11.2011 to 30.04.2012 as indicated below:

1. Progress on the construction of the project-as annexure-A.
2. Analysis data on air (ambient & stack) and noise quality-as annexure-B
3. Point wise status of compliance of Environmental Clearance-as annexure-C

Thanks & Regards,

For Aarti Steels Ltd,

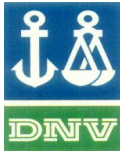
**(LTP Narayan)**  
**President**

Encl: As above

**Copy to: Dr. P.L. Ahujarai, Director,**

IA Division (Industry),  
Ministry of Environment and Forests, Paryabharan Bhawan,  
CGO Complex, Lodi Road, New Delhi-110003, e-mail: [plahujarai@yahoo.co.in](mailto:plahujarai@yahoo.co.in)  
Fax: 011-24367668.

**Works** : Ghantikhal, P.O.: Mahakalabasta, Via: Athagarh, Dist.: **Cuttack**–754 029 (Orissa),  
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### ANNEXURE A

### PHASE WISE DEVELOPMENT OF PROJECT AND PROGRESS ON THE CONSTRUCTION OF THE PROJECT & MILE STONE

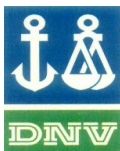
Product Portfolio (Proposed capacities)	Item	Capacity	Status	Target
	Power Plant	50 MW	Commissioned in March, 2010	
	Coal Washery	1.0 MTPA	Yet to be started	By Sept.2013
	Sponge Iron Kiln	2x500 TPD	Yet to be started	By Sept.2013
	Power Plant	60 MW	Yet to be started	By Sept.2013
	Sinter Plant	343000 TPY	Yet to be started	By Sept.2013
	Coke oven	236000 TPY	Yet to be started	By Sept..2013
	2 x 9 MVA Ferro-Alloys Plant	25000 TPA	Yet to be started	By Sept..2013

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### ANNEXURE-C

#### Compliance Status of Specific & General conditions of Environmental

#### Clearance letter no. J-11011 / 287 / 2008-IA II(I) dated 13.05.2008 issued by

#### Ministry of Environment & Forests, Govt.of India.

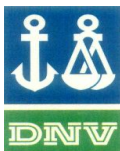
Sl.No.	Specific conditions	Compliance
A (i)	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted.	<p>We are taking the following steps to reduce the RSPM level in the ambient air:</p> <p>Dust suppression system for raw material handling area has already been commissioned. All transfer points of belt conveyor have been provided with spray nozzles for suppressing the dust. All conveyors, transfer points etc has been provided with enclosures. Water spraying arrangement has been provided in coal yard, truck tippler. We have already installed arm sprinklers for Coal Stock Yard .Further; we have drawn high pressure water pipe line in the coal yard to moisten the coal before loading in the dumpers for feeding to coal washery.This has substantially reduced the dust generation during further processing.</p> <p>In addition to above,</p> <p>-Regular water Spraying &amp; cleaning is being practiced on the internal roads. Out of 5.1 KM internal roads,4.6 KM internal roads have been blacktopped. Blacktopping of remaining roads is under progress and shall be completed by 15<sup>th</sup> June,2012.</p> <p>-We have installed arm sprinklers for dust suppression at Iron Yard &amp; Railway Siding area</p> <p>-We have provided rotating sprinkler system in DRI unit and on the road from Iron Ore Crushing unit to DRI cooler discharge unit for dust suppression.</p>

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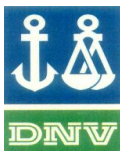
		<p>-Water Spraying arrangement using 14 KL tanker is being made during non-monsoon period for Dust Suppression along the internal roads, Coal Stack yard and other areas for effective dust control. Also manual water spraying arrangement using water hose has been made for dust control.</p> <p>-We have installed rotating sprinkler for dust suppression on the way from Power Plant area to waste water sump area.</p> <p>-We have already installed rotating sprinklers in SMS &amp; FAP unit.</p> <p>-Adequate pneumatic dust handling system at the hoppers of CFBC (ESP), AFBC ESP, WHRB ESP &amp; DRI Bag Filter has already been installed &amp; operating satisfactorily. Collected dust gets disposed off in ash pond in slurry form along with Ash of CPP.</p> <p>-Bottom ash is being disposed off in ash pond in slurry form along with ash of CPP.</p> <p>- The solid waste generated are being suitably disposed off within the premises without creating any dust nuisance or environmental contamination.</p> <p>-Material transportation through trucks, tippers etc is being carried out in covered condition to avoid spillages and dust emission.</p> <p>-Unloading of materials by trucks is being carried out with proper care avoiding dropping of the materials from height. The material is being moistened by sprinkling water while loading/unloading.</p>
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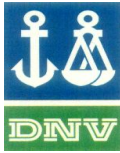
	<p>On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks.</p> <p>Sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm<sup>3</sup>.</p> <p>Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.</p>	<p>However, in order to improve the AAQ in and around our plant premises, further, we have installed additional Bag Filter for Capacity enhancement of existing bag filter of DRI Kiln as per recommendation of M/s IIT, Kharagpur to control fugitive emission.</p> <p>Not applicable to our case. As per new notification of MOEF dated 6<sup>th</sup> April, 2011 the plants having steel making capacity of 1.0 MTPA &amp; above and power generating capacity of 500 MW and above are required to establish permanent On-line Ambient Air Quality Monitoring and continuous stack monitoring facilities for all the stacks.</p> <p>At no time the emission level goes beyond the prescribed standards as the installed pollution control devices i.e. ESP is designed to ensure emission level below the prescribed standards i.e. 100mg/Nm<sup>3</sup>.</p> <p>In the event of failure of any pollution control system adopted by the unit, the pollution control system is being rectified to achieve the desired efficiency first and then only we are restarting the respective unit. However, we are exploring the possibility of provision of Interlocking facilities so that process can be automatically stopped in case emission level exceeds the limit.</p>
(ii)	<p>Hot gases from DRI kiln shall pass through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in Waste Heat Recovery Boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and Stack. Electrostatic precipitator (ESP) shall be</p>	<p>Shall be Complied along with the installation of DRI Kiln, Sinter Plant, Coal Washery, Blast Furnace, Coke Oven and Sub Merged Arc Furnace.</p> <p>However for 50 MW power plant (already commissioned), Flue gas from CFBC (with inlet dust concentration of around 100 gm/Nm<sup>3</sup>) passes through economizer followed by air pre heater &amp;</p>

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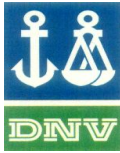
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	provided to DRI plant, Captive Power plant and Sinter plant to control air emissions within 100 mg/Nm <sup>3</sup> . Bag filters shall be provided to submerged arc furnace. Dry fog system will be provided to coal washery. Dust extraction system with bag filters shall be provided to the Coke oven. Bag filters shall be provided to submerged arc furnace. Gas cleaning plant having dust catcher and bag filter shall be provided to Blast furnace (BF). Bag house shall be provided to BF-Dry gas cleaning system.	ESP(6 fields) before getting emitted through a RCC stack of height 101 m(quantity of emission-approx.4,00,000 Nm <sup>3</sup> /hr).The ESP has been designed to achieve emission standard of 35 mg/Nm <sup>3</sup> with 6 fields in operation and 50 mg/Nm <sup>3</sup> with 5 fields in operation
(iii)	All the waste gases from the DRI plant, blast furnace, coke oven, and F-grade coal shall be utilized to generate power. Gaseous fuels from the blast furnace shall also be used in BF runners, stoves and sinter etc. No coke oven gases shall be discharged into the atmosphere but used in in the WHRB to generate power.	Shall be Complied along with the installation of DRI Kiln,Sinter Plant,Coal Washery,Coke Oven,Blast Furnace and Sub Merged Arc Furnace.
(iv)	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided .Dry fog dust suppression system and water sprinkling at coal washery, raw material handling areas and dust collectors at material transfer points, conveyor belts, coal crushers and screening areas and finish product handling etc shall be provided.Further, specific measures like water sprinkling around the coal stockpiles, loading/ unloading points and asphaltting or concreting of the internal roads/ working zones shall be done to control fugitive emissions.	Dust suppression system for raw material handling area has already been commissioned. All transfer points of belt conveyor have been provided with spray nozzles for suppressing the dust. All conveyors, transfer points etc has been provided with enclosures Water spraying arrangement has been provided in coal yard, truck tippler. We have already installed arm sprinklers for Coal Stock Yard .Further; we have drawn high pressure water pipe line in the coal yard to moisten the coal before loading in the dumpers for feeding to coal washery.This has substantially reduced the dust generation during further processing.  In addition to above,  -Regular water Spraying & cleaning is being practiced on the internal roads. Out of 5.1 KM internal roads,4.6 KM internal roads have been

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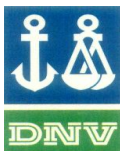
		<p>blacktopped. Blacktopping of remaining roads is under progress and shall be completed by 15<sup>th</sup> June,2012.</p> <p>-We have installed arm sprinklers for dust suppression at Iron Yard &amp; Railway Siding area</p> <p>-We have provided rotating sprinkler system in DRI unit and on the road from Iron Ore Crushing unit to DRI cooler discharge unit for dust suppression.</p> <p>-Water Spraying arrangement using 14 KL tanker is being made during non-monsoon period for Dust Suppression along the internal roads, Coal Stack yard and other areas for effective dust control. Also manual water spraying arrangement using water hose has been made for dust control.</p> <p>-We have installed rotating sprinkler for dust suppression on the way from Power Plant area to waste water sump area.</p> <p>-We have already installed rotating sprinklers in SMS &amp; FAP unit.</p> <p>-Adequate pneumatic dust handling system at the hoppers of CFBC(ESP),AFBC ESP,WHRB ESP &amp; DRI Bag Filter has already been installed &amp; operating satisfactorily.Collected dust get disposed off in ash pond in slurry form along with Ash of CPP.</p> <p>-Bottom ash is being disposed off in ash pond in slurry form along with ash of CPP.</p> <p>- The solid waste generated are being suitably disposed off within the premises without creating</p>
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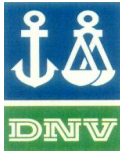
	Dust extraction system with bag filters along with dust suppression system shall be provided to proportioning unit, mixing unit, sinter crushing & screening unit to keep the dust in work zone environment within the permissible limit.	<p>any dust nuisance or environmental contamination.</p> <p>-Unloading of materials by trucks is being carried out with proper care avoiding dropping of the materials from height. The material is being moistened by sprinkling water while loading/unloading.</p> <p>However, in order to improve the AAQ in and around our plant premises, further, we have installed additional Bag Filter for Capacity enhancement of existing bag filter of DRI Kiln as per recommendation of M/s IIT, Kharagpur to control fugitive emission.</p> <p>Shall be Complied along with the installation of Sinter Plant.</p>
(v)	Data on ambient air quality, stack emissions, and fugitive emissions shall be uploaded on the Company's website and also regularly submitted on-line to the Ministry's Regional Office at Bhubaneswar, Orissa Pollution Control Board (OPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months. Data on SPM, SO <sub>2</sub> and NO <sub>x</sub> shall also be displayed prominently outside the premises at the appropriate place for the information of general public.	Data on ambient air quality monitored for the parameters PM <sub>2.5</sub> , RSPM, SO <sub>2</sub> , NO <sub>x</sub> , CO, Data on Stack air quality monitored for the parameters P.M., temperature and velocity & data on fugitive emission monitored for the parameter SPM for running plants is being submitted through e-mail & hard copy once in six months. Data on PM <sub>2.5</sub> , RSPM, SO <sub>2</sub> and NO <sub>x</sub> is being displayed prominently at the appropriate place for the information of general public.
(vi)	Gaseous emission levels including secondary fugitive emissions from blast furnace and sinter plant shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of	Shall be Complied along with the installation of Blast Furnace, Sinter Plant & Sponge Iron Plant.

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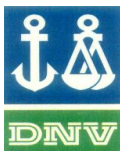
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	Practice issued by the CPCB shall be followed. The emission standards issued by the Ministry in May, 2008 for the sponge plants shall be followed.	
(vii)	Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	Material transportation through trucks, tippers etc is being carried out in covered condition to avoid spillages and dust emission. Unloading of materials by trucks is being carried out with proper care avoiding dropping of the materials from height. The material is being moistened by sprinkling water while loading/unloading. Regular water spraying and cleaning is being practiced on the internal roads and major internal roads have been black topped to control fugitive emission.
(viii)	All the standards prescribed for the coke oven plants shall be followed as per the latest guidelines. Proper and full utilization of coke oven gases in power plant using waste heat recovery steam generators shall be ensured and no flue gases shall be discharged into the air.	Shall be Complied along with the installation of Coke Oven.
(ix)	As proposed, dry coke quenching method shall be adopted in the proposed non-recovery type of the coke oven.	Shall be Complied along with the installation of Coke Oven.
(x)	Total water requirement from River Mahanadi for the proposed expansion shall not exceed 25,512 m <sup>3</sup> /day as per the permission accorded by the State Water Resource Department, Orissa vide letter no. WII-DM-Misc.-5/2003/13857 dated 26 <sup>th</sup> December, 2003. Prior permission for the drawl of extra water, if any, shall be obtained from the concerned department. No ground water shall be used.  BF-GCP and coal washery water shall be treated in thickener and used in the pig casting machine.	Being Complied.  Shall be Complied along with the installation of Blast Furnace & Coal Washery.

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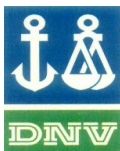
	<p>Acidic and Alkaline effluent from DM water plant shall be neutralized and reused in the plant through ash pond. Oil traps and skimming devices shall be provided for removal of oil and grease. All the waste water from process shall be treated and recycled and reused for ash slurry making, sprinkling, green belt development. No waste water shall be discharged outside the premises and 'Zero' effluent discharge shall be ensured.</p> <p>Domestic effluent shall be treated in Septic tank followed by soak pit and used for green belt development.</p>	<p>We are not discharging any process effluent. The blow down water from cooling tower, Boiler, coolers &amp; RO plant after treatment in neutralization pit is collected in wastewater sump and the same is reused for slurry making. Overflow decanted water from ash slurry is collected in wastewater sump and recycled. Thus the company achieves zero discharge by using treated effluent in the process. (Water Balance Diagram &amp; Flow sheet of effluent is enclosed for reference as <b>annexure-C-I</b>).</p> <p>Domestic effluent of Factory premises and colony are discharged to individual soak pits via septic tanks.</p>
(xi)	The water consumption shall not exceed 16 m <sup>3</sup> /Ton of Steel as per prescribed standard.	Being Complied.
(xii)	Ground water monitoring around the solid waste disposal site / secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's Regional Office at Bhubaneswar , CPCB and OPCB.	Ground water monitoring around the solid waste disposal site is being carried out once in a six month <b>(report enclosed vide annexure-C-II)</b> .
(xiii)	<p>All the char from DRI plant, coal washery rejects and middlings shall be utilized in the CFBC boiler of power plant. No char shall be disposed off anywhere else. CFBC power plant shall be installed before installation of Sponge Iron Plant so that utilization of char in the CFBC boiler is ensured.</p> <p>All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. SMS slag shall also be properly utilized in environment friendly manner. DRI fines, coke breeze, sinter dust, GOP dust, SMS dust, scale, iron ore fines</p>	<p>Coal washery rejects and middlings are being utilized in the boiler of power plant. DRI plant (under this project expansion programme) is yet to be installed. However, Char generated from existing DRI plant is being utilized in power plant for power generation.</p> <p>Shall be Complied along with the installation of Blast Furnace, Sinter Plant, Sponge Iron Plant., DRI Plant, Coke oven.</p>

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# AARTI STEELS LIMITED

## STEEL & POWER

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Certified Company

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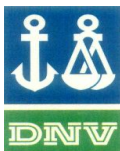
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	<p>shall be used in sinter plant.</p> <p>All the other solid wastes including broken refractory mass shall be properly disposed off in environment friendly manner.</p> <p>Resin used in demineralization plant shall be disposed off properly in impervious lined pit as per CPCB guidelines. Oily waste shall be provided to authorized recyclers / reprocessors.</p>	<p>All the other solid wastes including broken refractory mass are being properly disposed off in environment friendly manner.</p> <p>Resin used in demineralization plant is being disposed off properly in impervious lined pit with cover as per CPCB guidelines. Oily waste is being sold to authorized recyclers / reprocessors only.</p>
(xiv)	Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture Silico Manganese (Si-Mn).	Shall be Complied along with the installation of Ferro Alloys Plant.
(xv)	The slag from the ferro alloy plant after metal recovery shall be used for road making only after passing through Toxic Chemical Leachability Potential (TCLP) test. Otherwise, hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines. Metal recovery plant shall be installed to recover metal.	Shall be Complied along with the installation of Ferro Alloys Plant.
(xvi)	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid / hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, OPCB and CPCB.	Action plan for solid waste management has already been submitted to the Ministry keeping in view proper solid waste management. A copy of the said plan is enclosed vide <b>annexure-C-III</b> . Hazardous waste management is enclosed vide <b>annexure-C-IV</b> .
(xvii)	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	<p>We have taken the following measures to reduce solid waste generation, its proper utilization and disposal:</p> <p>Rejects of coal washery are being used as fuel in CFBC boiler for generation of steam. 90% of Char generated is being utilized in power plant.</p>

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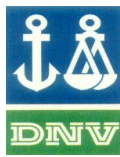
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		<p>Used oil is being sold to regd. Recyclers/re-refiners only. Constructed used oil storage shed with concrete platform for storage of used oil (a hazardous waste).Constructed bio-medical waste disposal pit for disposal of our First Aid Centre bio-medical waste. We have provided canteen waste disposal pit. Waste after recovery is used as manure for green belt development. We are recycling rejected dedusting bags in to carry bags. We are using Boiler Bottom ash of as soil conditioner for plantation development.</p>
(xviii)	<p>Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 as amendment in 2003. Ash from captive power plant shall be provided to fly ash brick / cement manufacturers.</p>	<p><b><u>Fly Ash Utilization</u></b></p> <p>Wet fly ash of Ash Pond along with moorum is being utilized for ash dyke raising. There will be provision for increasing the capacity of ash pond by raising its height further. Efforts are on to find the option for utilizing the Boiler Ash in Cement Making/Brick Making/Road/Embankment/Dam Making/Soil Conditioner for crop and plantation development/Concrete Work/Land Fill/Back filling of low-lying land and discarded mines etc. so that disposal of ash Pond is reduced to maximum possible extent.</p> <p>We wish to inform you that we are generating around 270 TPD of Fly Ash from our 50 MW Power Plant. We would like to inform you that we have utilized 30% utilization in the year 2010-2011 and achieved 32% utilization in the year 2011-2012 by utilizing the Fly Ash in Brick Manufacturing/Land Filling/Ash dyke Raising etc.</p> <p>In order to boost the utilization further, we have taken the following steps:</p> <ul style="list-style-type: none"> <li>-Utilising of fly ash for citrus plant development on Test Basis.</li> <li>-Utilising fly Ash as soil conditioner for plantation</li> </ul>

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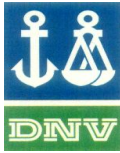
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		<p>development inside our plant premises.</p> <ul style="list-style-type: none"> <li>- The civil construction is being carried out with 100% fly ash bricks only.</li> <li>-We have discussed with a cement manufacturer (M/s J.K.Mahalaxmi Cement )who is setting up a cement plant by 2014 adjacent to our plant for manufacturing of pozzulona cement by utilizing our fly ash. The party has already agreed to use our fly ash in their plant.</li> <li>-Plan to utilize fly ash for citrus &amp; fruit plant development on large scale basis by 2012.</li> <li>-We are also exploring the possibility to tie up with the party who can lift bulk of Fly Ash.</li> <li>-We have placed order on C-FARM,New Delhi for providing solution for 100% utilization of fly ash. Report has been received in Sept.-2011. Suggestions shall be implemented as per approval of the management in a phased manner by 2014.However,as per their advice we have supplied 75 Ton of Fly Ash to farmers of diff. villages in Cuttack ,Jagatsighpur &amp; Kendrapada areas for utilizing the fly ash on their land on trial basis for rice cultivation. As reported by CRRi verbally,the test result is satishfactory.However,the detailed report in writing is expected to be received by June,2012 after which our fly ash is expected to be utilized in other districts on large scale basis by 2013.</li> </ul> <p>In order to boost the utilization of fly ash,we have written to the following Agencies for lifting/utilizing our Fly ash as per their requirement for <b>road/dam/embankment construction/land</b></p>
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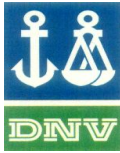
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		<p><b>filling/Reclamation of waste &amp; degraded land/ Brick &amp; Cement Making/Soil Conditioner for Crop &amp; Plantation development etc.</b></p> <p>*TIFAC,Fly Ash Utilisation Programme,New Delhi</p> <p>*CEO,Hazelberg Asia Pvt.Ltd.,Singapore.</p> <p>*The Assistant executive Director,Ms OCL,Cuttack.</p> <p>*The CMD, MCL, Burla.</p> <p>*The Project Director,NHAI,Bhubaneswar</p> <p>*The Vice-Chairman,CDA,Cuttack</p> <p>* The Vice-Chairman,BDA,Bhubaneswar.</p> <p>*The Divisional Railway Manager RM,E.Co.Rly,Khurda Road,</p> <p>*The Executive Engineer,NH Division,Dhenkanal</p> <p>*The Chief Engineer (Construction), Rail Vihar,Bhubaneswar.</p> <p>*The Commissioner, BMC,Bhubaneswar.</p> <p>*The Commissioner,CMC,Cuttack</p> <p>* The Director (Mines),Bhubaneswar</p> <p>*The Director, Agriculture Dept., Bhubaneswar etc.</p>
(xix)	As proposed, green belt shall be developed in 94 ha (33%), out of total 283.4 ha in and around the plant as per the CPCB guidelines in consultation with DFO.	We would like to inform you that up till now we have planted around 50000 nos of trees covering an area of 35 Ha .Out of 283.4 Ha of our total plant area approx. 68 Ha is already covered under thick plantation since beginning of the project. We are also

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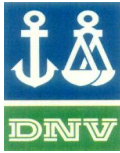
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		taking the maintenance of these existing plantations. Hence out of 283.4 Ha, total 103 Ha (plant layout showing 103 Ha (36%) plantation is enclosed vide <b>annexure-C-V</b> ) is already covered under plantation and only 180.4 Ha area is vacant area for project development. However, plantation in vacant areas has already been undertaken. The non covered areas are being planted in phased manner.
(xx)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel sector shall be implemented.	The CREP recommendation compliance/action plan report is enclosed vide <b>annexure-C-VI</b> .
(xxi)	The company shall provide housing for 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.	Being Complied.
	<b>General Conditions</b>	
<b>B (i)</b>	The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB) and the state Government.	Accepted.
(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Accepted.
(iii)	The gaseous emissions from various process units shall conform to the load / mass based standards modified by the Ministry on 19 <sup>th</sup> May, 1993 and standards prescribed from time to time by the Ministry. Orissa Pollution Control Board (OPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	The gaseous emissions (Particulate Matter) from stack attached to CFBC boiler is being monitored once in a month (reports enclosed). We would like to inform that as per the O.S.P.C.B. consent condition we are maintaining the particulate emission from the above mentioned process unit below 100 mg/Nm <sup>3</sup> . However, Load based standard notified by the ministry for integrated steel plant shall be applicable in our case, after installation of Coke

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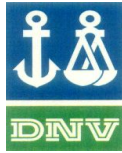
	At no time, the emission level shall go beyond the prescribed standards.	Oven plant.  At no time the emission level goes beyond the prescribed standards as the installed pollution control devices i.e. ESP is designed to ensure emission level below the prescribed standards i.e.100mg/Nm <sup>3</sup> .
(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 <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the OPCB.  Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and OPCB, CPCB once in six months.	Location of four ambient air quality monitoring stations have already been finalized in downward direction as well as where maximum ground level concentration of PM2.5, RSPM, SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the Orissa State Pollution Control Board.  Data on ambient air quality monitored for the parameters PM2.5, RSPM, SO <sub>2</sub> , NO <sub>x</sub> , CO in the above stations,Data on Stack air quality monitored for the parameters P.M., temperature and velocity & data on fugitive emission monitored for the parameter SPM for running plants is being submitted once in six months.Monitoring reports are enclosed.
(v)	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December,1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Since the Industrial waste water is not being discharged outside and is being utilized inside our plant for slurry making and re-cycled, hence the standards prescribed under GSR 422(E) dated 19 <sup>th</sup> May,1993 and 31 <sup>st</sup> December,1993 or as amended from time to time is not applicable to our case.
(vi)	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	The overall noise levels in and around the plant area is being kept well within the prescribed standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures as applicable etc. on all sources of noise generation. The overall noise levels in and around the plant area is being monitored once in a month.Noise monitoring reports

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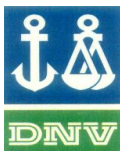
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	viz. 75 dBA (day time) and 70 dBA (night time).	are enclosed for reference which shows that the noise level is well within the standards of 85dB (A) for noise generating sources also it can be noted from the reports that the ambient noise levels also conform to the standards prescribed in EPA Rules, 1989 viz.75dB (A)(day time) and 70 dB(A) (night time).
(vii)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational Health Surveillance of the workers is being done once in a year and records are maintained as per the Factories Act.
(viii)	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.	We have prepared a scheme for surface-run off rain water harvesting in consultation with Professor, IIT, Kharagpur.As per the scheme, now the rain water is routed through a series of settling pits and finally collected in 100x80x5 m size rain water harvesting pit( <b>already constructed</b> ). Water harvested from the pit shall be pumped to our raw water reservoir during the ensuing monsoon.The work of Installation of Pumps,Pipelines etc. for transporting the collected rain water to raw water reservoir for recycling is under progress and shall be completed by 15 <sup>th</sup> June 2012.
(ix)	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.	All the environment protection measures and safeguards recommended in the EIA/EMP report are being complied in a phased manner.  Social infrastructure and peripheral development work report done so far has been attached vide <b>annexureC-VII</b> .  Further regarding health care- regular health check up of local people of Dhurusia,Mahakalabasta,Ghantikhal &Kakhadi villages are being carried out by our company Doctor &Pharmacist using mobile health van.

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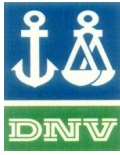
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(x)	As proposed, Rs 45.00 Crores and Rs 5.00 Crores shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures and judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Please refer <b>annexure-C-VIII</b> for financial provision of 45 Crore for the implementation of the EMP. We abide that the funds so provided shall not be diverted for any other purpose.
(xi)	The Regional Office of this Ministry at Bhubaneswar / CPCB / OPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	The stipulated conditions are being monitored by the Regional Office of the Ministry at Bhubaneswar/State Pollution Control Board. A six monthly compliance report and the monitored data along with statistical interpretation are being submitted to them regularly.
(xii)	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 OPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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 at Bhubaneswar.	Already Complied (copy of the advertisement is enclosed as <b>annexure-C-IX</b> for reference).
(xiii)	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.	Date of Financial Closure: March, 2009. Date of Final approval of the project: May 2009. Date of commencing the land development work: March 2009.
(5)	The Ministry may revoke or suspend the clearance, if implementation of any of the	Accepted.

### Works

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# AARTI STEELS LIMITED

## STEEL & POWER

An ISO 9001, 14001 & OHSAS 18001  
Certified Company

Office : Plot No. 18/1B, Sector-10, CDA

Cuttack – 753 014, (Orissa) India

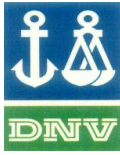
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	above conditions is not satisfactory.	
(6)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	Accepted
(7)	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred with in a period of 30 days as prescribed under section 11 of the National Environment Appellate Act, 1997.	Accepted.
(8)	The above conditions will be enforced, inter-alia under the provisions of the water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	Accepted

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