



संयोजन अंक

भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण एवं वन मंत्रालय
MINISTRY OF ENVIRONMENT & FORESTS

SPEED POST

क्षेत्रीय कार्यालय, पश्चिम क्षेत्र,
Regional Office, Western Region
"केंद्रीय पर्यावरण भवन"

"Kendriya Paryavaran Bhavan"

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भोपाल (मध्य प्रदेश)/Bhopal-462016 (M.P.)

अणु डाक /E-mail: apccfbhopal@gmail.com

Dated: 25.3.2014

No:5-290/2009(ENV)/806

To,

Dr. T. Chandini,
Director (IA),
Ministry of Environment & Forests,
Paryavaran Bhawan,
CGO Complex, Lodi Road,
New Delhi-110003

Sub: Integrated Steel Plant (3.0 MTPA) at village Ngar, Tehsil Jagdalpur, District Bastar, Chhattisgarh by M/s National Mineral Development Corporation Ltd. -- regarding.

Ref: Ministry's letter No. J-11011/681/2008-IA.II (I) dated 15.9.2009.

महोदय,

मंत्रालय के उपरोक्त संदर्भित पत्रांक के संदर्भ में उक्त परियोजना को पर्यावरणीय दृष्टिकोण से अनुमति देते समय अनुबद्ध शर्तों के अनुपालन एवं अनुवीक्षण प्रतिवेदन (मॉनिटरिंग रिपोर्ट) एतद् द्वारा संलग्न कर प्रेषित है। अनुवीक्षण प्रतिवेदन मंत्रालय की वेबसाइट पर भी अपलोड की जा रही है।

संलग्न: उपरोक्तानुसार।

भवदीय,

(डॉ. एस. के. लाल)

वैज्ञानिक 'बी'

प्रतिलिपि: 1. Deputy Director (Monitoring Cell), Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, Lodi Road, New Delhi-110003 for information and n/a.
2. Shri L.N. Mathur, Executive Director, NMDC Iron & Steel Plant, M/s NMDC Ltd., Nagarnar, Dist. Jagdalpur - 494001 (C.G.) - for information.

(डॉ. एस. के. लाल)

वैज्ञानिक 'बी'

Monitoring covering letter

Monitoring the Implementation of Environmental Safeguards
Ministry of Environment & Forest

Western Region, Regional Office, Bhopal

MONITORING REPORT

PART – I

DATA SHEET

1.	Project type: River valley/ Mining/ Industry / Thermal/ Nuclear/Other (specify)	:	Industry
2.	Name of the project	:	Integrated Steel Plant (3.0 MTPA) at village Ngar, Tehsil Jagdalpur, District Bastar, Chhattisgarh by M/s National Mineral Development Corporation Ltd.
3.	Clearance letter (s)/OM No. & dated	:	J-11011/681/2008-IA.II (I) dated 15.9.2009
4.	Location: a) District (s) b) State (s) c) Location Latitude/Longitude	:	 : Bastar : Chhattisgarh : 82°10" E/19°05" N
5.	Address for correspondence a) Address of the Concerned Project Chief Engineer (with Pin Code & telephone/ telex/ fax numbers) b) Address of the Concerned Project Chief Engineer (with Pin Code & telephone/ telex/ fax numbers)	:	 : Shri L.N. Mathur, Executive Director, : NMDC Iron & Steel Plant, M/s NMDC Ltd., Nagarnar, Dist. Bastar - 494001 Tel: 07782-265301, Fax: 265353
6.	Salient features a) Of the project b) Of the EMP	:	 : Copy of EIA/EMP report submitted to RO, : MOEF, Bhopal vide letter no. NISP/2009/891 : dated 21.1.2010
7.	Break-up of the project area a) Submergence area: forest & non-Forest b) Others	:	 : Govt. Revenue Land: 155.95 ha, : Private Land: 609.37 ha, : Forest Land: 36.48 ha, Total: 802.22 ha
8.	Break-up of the project affected population with enumeration of those losing houses/dwelling units only agricultural land only both dwelling units & agricultural land & landless laborers/artisans: a) SC, ST/Adivasi b) Others	:	 : Private land/agricultural land-only. No home oustees. Total no. affected 1355 people out of which 292 people employed NMDC Ltd. till date. : 507 : 848
9.	Financial details: a) Project cost as originally planned and subsequent revised estimates and the year of price reference	:	 : Rs. 17829 Crores (Dec. 2008)
	b) Allocation made for EMP with item wise and year wise break-up	:	Rs. 916 Crores. Capital Cost Rs. 219 Crores. recurring cost per ann.

	c) BC ratio/IRR and the year of assessment	: IRR Pre Tax – 26.1. Dec 2008 Post Tax 22.3
	d) Whether ① includes the cost of EMP as shown in the above	: Yes
	e) Actual expenditure incurred on the project so far	: Rs. 2864 Crores upto 30.9.13. Construction activity started in June 2011.
	f) Actual expenditure incurred on the EMP so far	: Nil
10.	Forest land requirement	
	a) The status of approval for diversion of forest land for non-forestry use	: 1. 25.72 ha for plant. Forest clearance was accorded by MOEF vide letter no. 6-CHCO12/2010-BHO/3034 dated 6.5.2011
	b) The status of clearing felling	: No tree felling involved 2. 10.76 ha for railway siding. Forest clearance was accorded by MOEF vide letter no. 6CHC/035/2006 BHO/876 dated 17.5.2010. 1035 trees was felled.
	c) The status of CA, if any	: Technical specification for green belt development has been finalized. Plantation work will start by 2015.
11.	The status of clear felling in non-forest areas (Such as submergence area or reservoir, approach Roads.), if any with quantitative information required.	: Not required
12.	Status of construction (Actual &/or planned)	
	a) Date of commencement	: June 2011
	b) Date of completion	: 42 months (expected by 2015)
13.	Reasons for delay if the project is yet to start	: Nil
14.	Dates of site visits	
	a) The dates on which the project was monitored by the Regional Office on previous occasions, if any	: -
	b) Date of site visits for this monitoring report	: 21/22.2.2014
15.	Details of correspondence with project Authorities for obtaining act on plans/information on status of compliance to safeguards other than the routine letters for logistic support for site visits.	: As below
Date Letter From RO		Date Reply from PA
23.10.09	Status of the project and compliance called	21.1.10 Status and compliance of EC condition submitted
-	-	8.5.12 Status of project submitted
8.6.12	Compliance and six monthly report been called by explanation	9.7.12 Explanation submitted
-	-	27.9.12 Six monthly report submitted
21.10.13	Project status, work progress and compliance called	26.10.13 Project status, work progress and compliance submitted

PART - II
(CHECK LIST OF COMPLIANCE)
O.M. No.: J-11011/681/2008-IA.II (I) dated 15.9.2009

No.	Conditions (in brief)	Status of Compliance
SPECIFIC CONDITIONS		
i	No construction activity started without prior approval from the Central/State Govt.	Agreed upon
ii	Efforts shall be made to reduce RSPM levels	Not Complied
iii	Electrostatic precipitator shall be provided	Partly Complied
iv	Standards prescribed for the coke oven plants	Agreed to Comply
v	Fugitive emissions	Partly Complied
vi	Gaseous emissions	Partly Complied
vii	Vehicular pollution	Partly Complied
viii	Total water requirement from Sabri and Indravati River	Complied
ix	Wastewater from coke oven and by-product recovery plant	Agreed to Comply
x	Water consumption shall not exceed 16 m ³ /ton	Agreed to Comply
xi	Ground water monitoring	Not Complied
xii	BF slag shall be granulated and provided to cement manufacturers	Agreed to Comply
xiii	Time bound action plan shall be submitted	Not Complied
xiv	Proper handling, storage, utilization and disposal of solid waste	Agreed to Comply
xv	Fly ash	Agreed to Comply
xvi	Green belt	Partly Complied
xvii	Recommendations made to the State Forest Department	Agreed to Comply
xviii	Rehabilitation and resettlement shall be implemented	Agreed to Comply
xix	Commitments made to the public during public hearing	Agreed to Comply
xx	All the recommendations made in CREP	Partly Complied
xxi	Company shall provide housing for construction labour	Partly Complied
GENERAL CONDITIONS		
i.	PA must strictly adhere to the stipulations made by CECB	Agreed to Comply
ii.	No further expansion or modifications	Agreed
iii.	Gaseous emissions	Agreed to Comply
iv.	Control measures for checking fugitive emissions	Partly Complied
v.	AAQ monitoring stations	Partly Complied
vi.	Industrial wastewater	Agreed to Comply
vii.	Noise levels	Partly Complied
viii.	Occupation health surveillance	Partly Complied
ix.	Rain water harvesting	Agreed to Comply
x.	Environmental protection measures and safeguards	Agreed to Comply
xi.	Funds shall be earmarked towards capital & recurring cost/annum	Agreed upon
xii.	Copy of clearance sent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local body and the local NGO	To be Complied by the respective organization
xiii.	PP shall upload the status of compliance	Agreed upon
xiv.	PP shall submit six monthly reports on the status of compliance	Agreed upon
xv.	Form-V is submitted to SPCB	Agreed
xvi.	Advertisement within seven days	Complied
xvii.	Financial closure and final approval	Complied
5	Ministry may revoke or suspend the clearance	Agreed upon
6	Ministry reserves the right to stipulate additional conditions	Agreed upon
7	Any appeal against EC within 30 days	Agreed upon
8	Conditions will be enforced under the provisions of the Water Act, 1974, the Air Act, 1981, the EP Act, 1986, HWMH rules, 2003 & the P.I.J, 1991	Agreed upon

PART – III

DESCRIPTIVE REPORT ON STATUS OF COMPLIANCE TO CONDITIONS OF ENVIRONMENTAL CLEARANCE AND ENVIRONMENTAL MANAGEMENT O.M. No.: J-11011/681/2008-IA.II (I) dated 15.9.2009

SPECIFIC CONDITIONS	
<u>Condition No. i</u>	- No construction activity should be started at site without obtaining prior approval from the Central/State Govt. for the 25.72 forest land under the Forest (Conservation) Act, 1980 and subsequent amendments.
<u>Compliance</u>	- Agreed upon. The forest clearance for 25.72 ha was accorded vide letter dated 6.5.2011.
<u>Condition No. ii</u>	- Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line AAQ monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm ³ . At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
<u>Compliance</u>	- No time bound action plan has been submitted as per stipulation. The height of stacks - coke oven 120 mtr, blast furnace 55 mtr, sinter plant 120 mtr, SMS 65 mtr and calcinations plant 30 mtr. The PA submitted that AAQ monitoring and continuous stack monitoring will be installed with interlocking facilities.
<u>Conditions No. iii</u>	- ESP shall be provided to sinter plant, stock house and cast house of blast furnace. Gas cleaning plant comprising of dust catcher and 2-stage venture scrubber followed by wet ESP shall be provided to blast furnace (BF). Bag filters shall be provided to ladle furnace. Dust extraction system shall be provided to coke oven. Air emissions from coke oven operations shall be also controlled by providing high pressure liquor ammonia system, pushing emission control (PEC), leak proof doors etc. BF gas, coke oven gas, mixed gas (BF & CO gas), BOF shall be used to generate power. Part of the BF gas shall be supplied to CDP Plant, cast house; CO to BOF shop & CCM shop and coke oven and BF gas to coke oven battery, hot strip mill, sinter plant hot strip mill, lime and dolomite plant. The SPM levels from all the sources shall be controlled within 100 mg/Nm ³ .
<u>Compliance</u>	- PA submitted that pollution control equipments have been ordered in various packages. The construction work is in full swing but the status of supply of pollution control equipments and their installation at site is not visible. The compliance should be at par with the work progress specially the project is in construction phase.
<u>Conditions No. iv</u>	- 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 elemental sulphur shall be recovered. Naphthalene scrubbing and solar oil regeneration unit shall be installed to remove and recover naphthalene from coke oven gas.
<u>Compliance</u>	- PA submitted that the equipments/units have been ordered in various packages and assured for the compliance of the condition.

<u>Conditions No. v</u>	-	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust extraction system with bag filters shall be provided to coal crusher house/coke sorting plant, raw material handling section, SMS material handling area, lime and dolomite plant. Water sprinkling and dry fogging system shall be provided for dust suppression from raw material handling area. Dust extraction system with bag filters/ESP shall be provided to stock house and cast house of blast furnace (BF). Bag filters shall be provided to ladle furnace. Dust extraction system with ESP shall be provided to sinter plant to control process and fugitive emissions. All the roads in the work area shall be asphalted. Monitoring of fugitive emissions in the work zone environment shall be carried out regularly as per the CPCB guidelines and reports submitted to Jharkhand PCB/CPCB and Ministry's RO at Bhubaneswar.
<u>Compliance</u>	-	PA submitted that the equipments/units have been ordered in various packages and assured for the compliance of the condition as per the CPCB guideline after the commissioning of plant, also assured for regular submission of the reports.
<u>Conditions No. vi</u>	-	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 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.
<u>Compliance</u>	-	PA submitted that the compliance of the condition as per the stipulation will be followed after the commissioning of plant.
<u>Conditions No. vii</u>	-	Vehicular pollution due to transportation of raw material and finished product shall be controlled and efforts shall be made to reduce of the transport of the raw materials and end products on the surrounding environment including agricultural land. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product. All the raw materials including fly ash shall be transported in the closed containers only and shall not be overloaded. Vehicular emissions shall be regularly monitored.
<u>Compliance</u>	-	PA submitted that proper arrangements will be made to control dust emissions during loading and unloading of the raw material and finished product. It is observed that lot of vehicular movement is at the site and due to heavy vehicles movement dust emission is very high and needs proper attention during the construction phase. PA has been advised to control the dust emission on priority basis.
<u>Conditions No. viii</u>	-	Total water requirement from Sabri and Indravati River shall not exceed 3747 m ³ /hr as per the MoU signed with Water Resources Department, Govt. of Chhattisgarh on dated 11.6.2009. No ground water shall be used. Closed circuit system shall be adopted. Cooling tower blow down water shall be used in gas cleaning plant of blast furnace and then reused for slag granulation/slag cooling. Blow down water from BOF re-circulation system shall be reused in SMS slag yard. Blow down water from power plant shall be reused in pig casting machines. Neutralizing pit shall be provided to soft and DM water plant. Settling tanks fitted with oil & grease traps shall be used for treatment of effluent from thin slab caster and hot strip mill. Individual shop-wise wastewater treatment facilities shall be provided. All

<u>Compliance</u>	- the effluent shall be treated in effluent treatment plant (ETP) and treated wastewater including cooling tower blow down shall be recycled and reused for ash handling, dust suppression and green belt development and various other project related activities. No wastewater shall be discharged outside the premises and 'Zero' effluent discharge shall be ensured. Domestic effluents shall be treated in sewage treatment plant and sewage sludge shall be used as manure for green belt development.
<u>Conditions No. ix</u>	- PA assured to comply with the condition and submitted that all efforts for 'zero' discharge will be implemented.
<u>Compliance</u>	- The wastewater from coke oven and by-product recovery plant containing ammonia, cyanides, thio-cyanates, phenols, oil & grease shall be treated in BOD plant and reused for quenching of hot coke. Continuous monitoring of Total Organic Compounds (TOC) shall be done at the outlet of ETP (BOD plant).
<u>Compliance</u>	- PA assured that continuous monitoring of TOC will be done at the outlet of ETP after commissioning of the plant.
<u>Conditions No. x</u>	- The water consumption shall not exceed 16 m ³ /Ton of steel as per prescribed standard.
<u>Compliance</u>	- PA assured to comply with the condition.
<u>Conditions No. xi</u>	- Ground water monitoring around the solid waste disposal site/secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's RO at Bhopal, CPCB and CECB.
<u>Compliance</u>	- Ground water monitoring will be done on regular basis and regular reports will be submitted to MOEF and CPCB. PA has been advised to install piezometers for regular monitoring and assessment during the construction phase.
<u>Conditions No. xii</u>	- All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. BF & BOF sludge, BF flue dust, BOF scale, mill scrap, lime dust, dolo dust shall be used in sinter plant. BOF slag shall be reused in manufacturing cement or in sinter plant. Skull/scrap and mill scrap shall be reused in BOF plant. Cinder shall be used in road construction. Tar sludge from coke oven wastes including broken refractory mass shall be properly disposed off in environment-friendly manner. Oily waste, spent lubricants and lead acid batteries shall be provided to authorized recyclers/reprocessors.
<u>Compliance</u>	- PA assured to comply with the condition.
<u>Conditions No. xiii</u>	- A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal to the Ministry's RO at Bhopal.
<u>Compliance</u>	- At present no time bound action plan has been prepared. However, PA submitted that after commissioning of the plant time bound action plan will be submitted.
<u>Conditions No. xiv</u>	- 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 OR at Bhopal, CECB and CPCB.
<u>Compliance</u>	- At present no monitoring has been done but PA assured that condition will be complied and regular reports on solid/hazardous waste will be submitted after commissioning of the plant.

<u>Conditions No. xv</u>	- Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003. All the fly ash shall be provided to cement and brick manufacturers for further utilization and 'Memorandum of Understanding' shall be submitted to the Ministry's RO at Bhopal.
<u>Compliance</u>	- Detailed fly ash utilization plan is yet to be prepared by PA, however, it is submitted that MOU have been finalized for supply of fly ash to the cement plant and brick manufacturing units.
<u>Conditions No. xvi</u>	- As proposed, green belt shall be developed in 33% area within and around the plant premises as per the CPCB guidelines in consultation with DFO.
<u>Compliance</u>	- PA submitted that green belt development plan is covered under package no. 41 and it is in finalization stage. However, green belt plan for 33% of area is not yet prepared as per the CPCB guidelines.
<u>Conditions No. xvii</u>	- Recommendations of the State Forest Department shall be obtained regarding likely impact of the proposed steel plant on the surrounding reserve forests viz. Kanger RF, Ultnar RF, Kakadpasa RF, Chalanguda RF and Metawada RF and implemented.
<u>Compliance</u>	- PA submitted that recommendation of State Forest Department is to be obtained and after which suitable measures will be implemented. However, no serious action has been taken up for the compliance. A detailed study has to be carried out on the impacts of the upcoming steel plant on the surrounding reserve forest.
<u>Conditions No. xviii</u>	- Rehabilitation and resettlement shall be implemented as per the policy of the Govt. of Chhattisgarh. Compensation paid in any case shall not less than the norms prescribed under the National Resettlement and Rehabilitation Policy, 2007.
<u>Compliance</u>	- PA submitted that norms prescribed under NRR Policy 2007 have been followed for R&R. Total affected persons are 1355 out of which 507 are SC/ST. It is claimed that 292 persons are given employment in NMDC till date. About 35% cases are still pending for final outcome. PA has been advised to prepare R&R plan and form policy for rehabilitation and resettlement for treating all the PAPs uniformly. Details of R&R and time bound plan & its implementation status is still awaited.
<u>Conditions No. xix</u>	- All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 27 th February, 2009 shall be satisfactorily implemented.
<u>Compliance</u>	- The recommendation and commitments made in public hearing is to be achieved satisfactorily. PA has been advised to take up the matter at the senior management level and comply the recommendation and all the commitments as assured. A detail plan has to be submitted in this regard.
<u>Conditions No. xx</u>	- All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel sector shall be implemented.
<u>Compliance</u>	- PA assured to achieve and full fill all the recommendations made in CREP for the steel sector as the project work progresses.
<u>Conditions No. xxi</u>	- 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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

<u>Compliance</u>	-	PA submitted that construction labour are engaged by the contractors and the condition for providing all necessary infrastructure and facilities as per condition is a mandatory part of the contract package. It is observed that two labour colonies are established at the steel plant construction site and two colonies are at the other side of the road. It is observed that the other two colonies are not been provided full infrastructure and facilities as stipulated in the condition.
GENERAL CONIDITIONS:		
<u>Condition No. i</u>	-	The PA must strictly adhere to the stipulations made by the CECB and the State Government.
<u>Compliance</u>	-	Agreed to Comply.
<u>Condition No. ii</u>	-	No further expansion or medications in the plant should be carried out without prior approval of the MOEF.
<u>Compliance</u>	-	Agreed to Comply.
<u>Conditions No. iii</u>		The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 th 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. On-line continuous monitoring system shall be installed in stacks to monitor SPM and interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
<u>Compliance</u>	-	Agreed to Comply.
<u>Conditions No. iv</u>	-	In plant control measures for checking fugitive emissions from all the vulnerable sources like spillages/raw materials/coal handlings 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, blast furnace stock house and other enclosed 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 for induction furnaces existing in the industry and proposed induction and are furnaces. Fugitive emissions shall be regularly monitored and records maintained.
<u>Compliance</u>	-	PA submitted that the equipments/units have been ordered in various packages and assured for the compliance of the condition as per the stipulated condition after the commissioning of plant, also assured for regular submission of the reports.
<u>Conditions No. v</u>	-	At least four AAQ monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the CECB. Data on AAQ and stack emission should be regularly submitted to this Ministry including its RO at Bhopal and the CECB/CPCB once in six months.
<u>Compliance</u>	-	PA submitted that the compliance of the condition as per the stipulation has been initiated and four monitoring stations as per condition has been established and regular monitoring is being done and reports are submitted.

<u>Conditions No. vi</u>	-	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
<u>Compliance</u>	-	PA submitted that the compliance of the condition as per the stipulation will be followed after the commissioning of plant.
<u>Conditions No. vii</u>	-	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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
<u>Compliance</u>	-	PA submitted that regular monitoring of the noise level has been done and reports are well within the limit. The workers working in noisy area has been provided noise control equipments.
<u>Conditions No. viii</u>	-	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
<u>Compliance</u>	-	PA submitted that regular health check up of the workers is being done and records are maintained as per Factory Act. A small dispensary having contract employees is running adjoining to the site. PA has been advised to have permanent staff medical and paramedical workers to take up the occupational health of the workers, the compliance should be on priority for the health point of view.
<u>Conditions No. ix</u>	-	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
<u>Compliance</u>	-	PA submitted that water harvesting structures to harvest the rain water has been planned, however, at present no structure has been developed for water harvesting.
<u>Conditions No. x</u>	-	The PP shall also comply with all 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.
<u>Compliance</u>	-	Agreed upon.
<u>Conditions No. xi</u>	-	As proposed, Rs. 916.00 Crores and Rs. 219.00 Crores shall be earmarked towards capital cost and recurring cost/annum for environment pollution measures to implement the conditions stipulated by the MOEF as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the RO of the Ministry at Bhopal. The funds so provided should not be diverted for any other purpose.
<u>Compliance</u>	-	Agreed upon.
<u>Conditions No. xii</u>	-	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall be put on the web site of the company by the proponent.
<u>Compliance</u>	-	PA has submitted that copy of the letter has been sent.

<u>Conditions No. xiii</u>	-	The PP shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the RO of the MOEF, the respective Zonal Office of CPCB and the CECB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
<u>Compliance</u>	-	PA submitted that the compliance of the condition as per the stipulation is being done but no monitoring report and monitoring data been submitted at the time of visit. PA has been advised to submit the report and update data should be uploaded on the website, also monitoring data is to be displayed on the main gate.
<u>Conditions No. xiv</u>	-	The PP shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the RO of MOEF at Bhubaneswar, the respective Zonal Office of CPCB and the CECB. The RO of this Ministry at Bhopal/CPCB/CECB shall monitor the stipulated conditions.
<u>Compliance</u>	-	Agreed upon.
<u>Conditions No. xv</u>	-	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned SPCB as prescribed under the EP Rules, 1986, as amended subsequently, shall also 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 RO of the MOEF by e-mail.
<u>Compliance</u>	-	Agreed upon. PA submitted that project is under construction phase hence not yet prepared after commissioning of the plant same will be submitted.
<u>Conditions No. xvi</u>	-	The PP shall inform the public that the project has been accorded EC by the Ministry and copies of the clearance letter are available with the CECB and may also be seen at Website of the MOEF at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the RO.
<u>Compliance</u>	-	Complied.
<u>Conditions No. xvii</u>	-	PA shall inform the RO 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.
<u>Compliance</u>	-	PA submitted that the construction work is still going on and Rs. 2864 Crores has been incurred up to 30.9.2013. Yet to be closed as construction work is still going on.
<u>Conditions No. 7</u>	-	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
<u>Compliance</u>	-	Agreed upon.
<u>Conditions No. 8</u>	-	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner shall implement these conditions.
<u>Compliance</u>	-	Agreed upon.

<u>Conditions No. 9</u>	- Any appeal against this EC shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1987.
<u>Compliance</u>	- Agreed upon.
<u>Conditions No. 10</u>	- The above conditions shall 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 Wastes (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.
<u>Compliance</u>	- Agreed upon.

SUMMARY NOTE :

It is inferred from the above that the implementations of environmental safeguards some are found satisfactory except the green belt development, AAQ Monitoring and time bound conditions and preparation of plans as stipulated should be implemented in pari-passu of the project development work. With regard to uploading of EC compliance of conditions along with analytical reports on the web-site of the company, PA has agreed to upload the same. PA has been advised to submit the action taken report on the conditions mentioned above which are not complied or partially complied and submit data & reports to Regional Office on regular basis and upload the same on the website.


Scientist 'B'