



Date: 25.12.2014

To,

The Deputy Director
Ministry of Environment and Forest
Regional Office (Central Region)
Sector-H, Aliganj
Lucknow-226024

Subject: Compliance Report of Environmental Clearance Conditions of Zinc, Lead M&C unit and Silver Plant.

Ref: Letter no. J-11011/327/2010/IA-II (I) dated 26.04.2011 from MoEF EC-51/10/265 dated 16.03.2010 from SEIAA

Dear Sir,

We have received Environmental Clearance from Ministry of Environment and Forest for our Zinc (4,65,000 TPA) and Lead (1,50,000 TPA) Melting-Casting Plant on 26<sup>th</sup> April 2011 and 500 TPA Silver Plant from SEIAA on 16.03.2010.

Please find enclosed herewith Compliance Status Report of Environmental Clearance Conditions of the same for the period of April 2014 to September 2014.

Thanking you.

Yours faithfully,

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For Hindustan Zinc Ltd. Pantnagar Metal Plant

CC: 1. Chief Environment Officer UEPPCB Dehradun.

2. Regional Office UEPPCB Kashipur.

Hindustan Zin Zonal Officer CPCB Lucknow.

Pantnagar Metal Plant

Plut No. 2 & 3, Sector 14, IIE, SIDCUI. Penthagan

Uttarakhand (India) PIN-263158

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Send By speed post on 25-12-2014

#### Compliance Status of Environment Clearance (April 2014 to September 2014)

(Reference: EC-51/10/265 dated 16.03.2010)

1. Name of the Project: Hindustan Zinc Ltd. Pantnagar Silver Plant

2. Location of the Project: Plot No.2, Sector-14,

IIE SIDCUL.Pantnagar

Dist.: Udhamsingh Nagar (Uttarakhand)

3. Product and Production wise capacity:

**Product:**-Refined Silver (500TPA)

By products: 1.Antimony concentrate (1400TPA)

2. Bismuth concentrates (140TPA)

3. Copper Matte (140TPA)

4. Oxidation Slag (840TPA)

Sr. No	Specifications	Status
Α	Specific conditions:	
1	Water requirement shall not exceed 350KLD, which shall be sourced from the bore well, waste water from all the processes shall be taken to common effluent treatment plant (CETP) of IIE, Pantnagar, US Nagar, and Domestic water shall be treated through appropriate capacity sewage treatment plant (STP). The treated water shall then be taken to lagoons from where it shall be utilized for cooling, flushing, gardening and green belt development, cooling water shall be re-circulated. No waste water shall be discharged outside the plant boundary and 'Zero discharge' shall be strictly adhered to.	Water requirement total water withdrawal ensured always within the stipulated limit of 325 m3/day for silver plant.  An ETP plant of 87 KLD has been installed in-house to treat and reuse the effluent generated as against the earlier plan of sending it to the CETP of IIE Pantnagar, US Nagar. ETP is being used to treat combined trade effluents from the Silver Plant and company's Melting & Casting unit in the same complex. As there is not effluent generation from process so, ETP is not in operation.  STP of 30 KLD installed to treat the effluent from Silver plant and Melting & Casting unit in same complex.
		No wastewater is being discharged outside the plant and zero discharge is maintained.
2	The unit shall install noble furnace (1nos) of 14 MT/day capacities. Cupel furnaces (2nos) of 2.5MT/day capacity and induction furnaces (3nos) of 0.6MT/day capacity with appropriate capacity fumes	Erection and commissioning of Noble Lead Furnace (1 nos), Cupel furnaces (2 Nos), induction furnaces (3 nos) completed as per stipulation. The pollution control systems installed include the following,

	collection system, bag filters and stack height.	<ul> <li>85,602 Nm3/Hr</li> <li>Bag filters to maintain the emission as per norms</li> <li>Stack of 40 meter height with appropriate monitoring port hole and platform.</li> </ul>
3	-	Installation of HSD fired 500 KVA DG with acoustic enclosure and stack of 20 m height
4	The project authority shall strictly maintain air emission effluent discharge standards as per the rules.	Noted and being complied.
5	Hazardous chemicals and hazardous waste shall be stored and disposed as the hazardous waste (management, handling and transboundary) Rules 2008.	Appropriate storage facilities have been made for storing Hazardous Chemicals.  Authorization under Hazardous waste (management, handling and transboundary movement) rules granted by UEPPCB.
6	One-third of the total area of the project shall be developed as green belt with suitable species of plants as per the CPCB guidelines	Till date, 10,000 No's saplings have been planted. The greenbelt of 38% area has been covered.
7	The project authority shall carry out regular ground water quality monitoring of the area, particularly for metal contents at least two different locations, permanent ambient air quality monitoring station shall also be installed in the premises to assess ambient air quality	Ground water quality being monitored for the metals contents quarterly, from plant bore wells. Air quality monitoring is being carried out from four locations inside the plant selected as per wind direction pattern & established in consultation with UEPPCB.
8	The project authority shall obtain "Consent to Establish" and "Consent to operate' from UEPPCB.	<ul> <li>UEPPCB has granted the following,</li> <li>Consent to establish (Letter No.UEPPCB/HO/NOC-1509/2010/18 dated 01.04.2010)</li> <li>Consolidated Consent Authorization for is granted by UEPPCB and was valid up to 31.03.2014.</li> <li>Application of Renewal for the period 2014-15 submitted to UEPPCB and it is pending at HO-UEPPCB.</li> </ul>
9	The project authority shall obtain the necessary permission NOC from the	<ul> <li>NOC obtained from Central Ground Water Authority (CGWA) for groundwater</li> </ul>

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	respective regulatory authorities prior to operation for the unit.	<ul> <li>withdrawal</li> <li>NOC obtained from Airport Authority of India (AAI) for Stacks.</li> <li>License obtained for fuel storage from Chief Controller of Explosives (CCOE).</li> </ul>
10	The project authority shall submit the compliance report of Environment Clearance in every six months to the authority.	Being Complied.
11	The 'Environmental Clearance" is valid for silver refining process only	Noted.
В	General conditions:	
1	The project authorities shall strictly adhere to stipulation made by the UEPPCB	Noted and is being complied.
2	No further modification or expansion shall be carried out without prior approval of the competent authority. In case of deviations or alterations in the project proposal from those submitted to this authority for the clearance, a fresh reference shall be made to the authority to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted and shall be complied.
3	At no time the emissions shall exceed the prescribed limits in the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Shall be complied.
4	The gaseous emissions (Sox, NOx, CO, VOC and HC) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by	Gaseous emissions of SOx, NOx, CO and Particulate matter being carried periodically.  Emission levels are being ensured as per the stipulations. Attached here for reference. (Annexure-I)

	the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	
5	•	Ambient air quality monitoring location finalized in the downwind direction of the plant in consultation with UEPPCB.
6	The stacks of appropriate height as per the central pollution board guidelines shall be provided to control the emissions from various vents.	40 m stack height for furnace off
7	provided. Magnetic seals shall be	Proper storage yard is constructed for storing of raw materials.  There are no solvents used in our process and hence the conditions stipulated regarding solvents may be exempted.
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	control of fugitive emissions. The detector's sensitivity shall be in ppm levels	
9	The company shall undertake following waste minimization measures:  Metering and control of quantities of active ingredients to minimize waste, reuse of by-products from the process as raw materials or as raw material substitutes in other processes  Use of automated filling to minimize spillage  Use of closed feed system into batch reactors  Venting equipment through vapor recovery system, use of high pressure hoses for equipment cleaning to reduce waste water generation	<ul> <li>All active ingredients are measured and controlled to ensure minimum waste</li> <li>The by-products are being reused as raw materials in other processes of HZL's sister units</li> <li>Maximum automation has been adopted in the design of the equipments to arrest spillages.</li> <li>Hygiene ventilation systems have been installed to arrest fugitive emissions.</li> </ul>
10	Fugitive emission in the work zone environment, products and raw material storage area shall be regularly monitored. The emissions shall confirm to the limits imposed by the UEPPCB, Central Pollution Control Board. Dust powder from the formulation process shall be collected by dust extractor.	Hygiene ventilation systems have been installed to arrest fugitive emissions. Work zone monitoring is being done monthly, In the Raw material handling, process and finished good area and emission maintained below the limit.
11	The project authorities shall strictly comply with the rules and guidelines under manufacture, storage and import of hazardous chemicals rules, 1989 as amended in October, 1994 and January, 2000 and Hazardous waste (management and handling) rules, 1989 as amended from time to	
12	The overall noise levels in and around the plant area shall be kept	noise standards, at the design stage of the

	including acoustic hoods, silencers, enclosures etc on all sources of noise generation. The ambient noise levels shall confirm to the standard prescribed under Environment (protection) act 1986 rules, 1989 viz 75 dB(A) (day time) and 70dB(A) (Night time)	<ul> <li>Sound attenuation panels provided around the noise generating equipment.</li> <li>Acoustic enclosure provided for DG set.</li> <li>Noise level monitoring being done and ensured within limit.</li> </ul>	
. 13	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the factories act.	Being complied.	
14	Training shall be imparted to all employees on Safety and health aspects of Chemical handling. Preemployment and routine periodical medical examination for all the employees shall be undertaken on regular basis.	Trainings to all employees on Safety and health aspects of Chemical handling are being provided time to time.  The periodic medical examination is being carried out for the relevant occupational hazards at a frequency, as per statutor requirements.	
15	The company shall harvest surface as well as rain water from the roof tops of the buildings proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities for the project to conserve fresh water.	A rain water storage ponds of capacity of 2542 1500 & 841 cum is constructed inside the property area for storing the rainwater for reuse after appropriate treatment, if required. We have conducted Water screening study of buffer zone & core zone as per CGWB guidelines and found that plant area falls in Tarain. Water table in the plant area is very high. Hence, recharge of ground water is not possible. As per observation from the study. We can recharge water 30 Km away in forest area for which request submitted to forest department, reply is awaited.	
16	The project authority shall also comply with all the environmental protection measures and safeguards proposed in the EIA- EMP report. All the recommendations made in respect of environmental management and risk mitigation measures relating to the project shall be implemented	Environment protection measures and safeguards recommended in the EIA/EMP report has been implemented for Socio-Economic development activities baseline study has been conducted with help of external agency. Action plan for implementation of recommendations in study is made and being ensured in phased manner.	

17	The company will undertake all relevant measures for improving the socio-economic condition of the surrounding areas. CSR activities will be undertaken by involving the local villages and administration.	Socio-Economic development activities commensurate to the need of the local surrounding villages shall be implemented with the help of administration, as committed.
18		Noted and being complied as a part of CSR activities as above (point B17).
19	A separate environmental management cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.	Environment laboratory is set up with requisite facilities for environment monitoring and management.
20	The authority may revoke / suspend the environment clearance if implementation of any of the condition is not satisfactory and also the authority reserves the right to stipulate additional condition(s) if found necessary. The project authority in a time bound manner will implement these conditions.	Noted
21	The stipulated conditions, will be enforced, inter alia under the provisions of Water (Prevention and control of Pollution) Act,1974, The Air (Prevention and Control of Pollution) Act,1981, The Environment (Protection)Act,1986, Hazardous Waste (Management and Handling) Rules,2003,2008 and the Manufacture and Use and import of Hazardous chemical rules,1989 and the Public Liability Insurance act,1991, along with their amendments and rules.	
22	The Authority reserves the right to stipulate additional condition(s), if found necessary. The company in the	

	time bound manner shall implement these conditions.	
23	The Environment clearance is valid for five years from the date of issue of Environment clearance or Commissioning of the project whichever earlier. The Project authority shall inform to the authority as well as UEPPCB the date of start of the project and its completion.	Noted. Project activities are started in May 2010 and Plant commissioning done in the month of Dec.2011. and accordingly informed to SEIAA & UEPPCB.
24	The implementation of the project	submitted to UEPPCB and shall be posted
25	The Project authority shall inform the public that the project had been accorded the environment clearance by the authority and copies of the clearance letter are available with the UEPPCB, may also be seen at the website of the state board. This shall be advertised within 7 days from the date of issue of clearance letter, at least in two local news paper that are widely circulated in the region, of which one shall be the vernacular language of the locality concerned and a copy of the same shall be forwarded to SEIAA and UEPPCB.	Advertisement published in two newspapers i.e. Dainik Jagran and Amar Ujala. Copy of the same submitted to SEIAA and UEPPCB.

# Annexure - I

S.No.	Month	Analysis	stack attached to furnace	Stack of NOX Scrubber
1		PM(mg/Nm <sup>3</sup> )	38.3	16.3
2		SO <sub>2</sub> (mg/Nm3)	22.8	8.6
3	Apr-14	NO <sub>x</sub> (mg/Nm3)	75.4	20.6
4	1	CO(mg/Nm3)	-	-
5		Lead(mg/Nm3)	<1.0	<1.0
6		PM(mg/Nm <sup>3</sup> )	40.2	15.9
7		SO <sub>2</sub> (mg/Nm3)	21.5	7.2
8	May-14	NO <sub>x</sub> (mg/Nm3)	80.2	18.5
9		CO(mg/Nm3)	-	-
10		Lead(mg/Nm3)	<1.0	<1.0
11		PM(mg/Nm <sup>3</sup> )	42.9	13.9
12		SO <sub>2</sub> (mg/Nm3)	19.7	8.3
13	Jun-14	NO <sub>x</sub> (mg/Nm3)	83.8	19.2
14		CO(mg/Nm3)	-	-
15		Lead(mg/Nm3)	<1.0	<1.0
16		PM(mg/Nm³)	45.2	11.7
17		SO <sub>2</sub> (mg/Nm3)	17.2	6.5
18	Jul-14	NO <sub>x</sub> (mg/Nm3)	89.6	16.3
19	1	CO(mg/Nm3)	-	-
20		Lead(mg/Nm3)	<1.0	<1.0
21		PM(mg/Nm <sup>3</sup> )	69.2	25.2
22	]	SO <sub>2</sub> (mg/Nm3)	36.3	6.2
23	Aug-14	NO <sub>x</sub> (mg/Nm3)	72.8	20.5
24		CO(mg/Nm3)	-	_
25		Lead(mg/Nm3)	<1.0	<1.0
26		PM(mg/Nm <sup>3</sup> )	34.9	12.7
27		SO <sub>2</sub> (mg/Nm3)	29.3	6.5
28	Sep-14	NO <sub>x</sub> (mg/Nm3)	84.7	16.3
29		CO(mg/Nm3)	-	_
30		Lead(mg/Nm3)	<1.0	<1.0

#### · Compliance Report of Environment Clearance

Name of the Project: Hindustan Zinc Ltd.

Zinc and Lead Melting-Casting Plant.

Plot No.2, Sector -14, IIE SIDCUL Pantnagar (Uttarakhand)

Clearance Letter No: J-11011/327/2010/IA-II(I) Dt.26<sup>th</sup> April 2011

Period of Compliance Report: April.2014 to September.2014

Sr.No	Condition	Compliance Status
Α	Specific conditions.	
1	On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. bag filters shall be provided to keep the emission levels below 50 mg/Nm³ by installing energy efficient technology.	Efficient bag filters with online PM analyzers for all process stacks are provided to keep emission level below the 50 mg/Nm3. Online SO2 analyzer provided for DG stacks.  Ambient Air quality monitoring is being done monthly in four location approved by UEPPCB by external agency registered from MOEF and exploring feasibility to put system for continuous monitoring facility is under progress.
2	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 should be followed.	Noted and is being followed.
3	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30 <sup>th</sup> May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.	All Fugitive emission is being treated through stacks connected with bag filters. Apart from this monthly work zone monitoring is being carried out. Reports of stacks and work zone attached here for reference. (Annexure-I & I-A)
4	The total water requirement shall not exceed 500 KLD. Permission to draw water from the Competent Authority shall be obtained. No	Water requirement of Zinc and Lead M&C process and silver process is limited to 325m3/day. For which

5	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry's Regional Office at Lucknow, SPCB and CPCB.	CGWA is already given consent (Letter no. : 21-4(34)/CGWA/UR/2010-1776 on dated 08 March 2010. However, by considering future requirement of water revised application for withdrawal of additional 175m3/day is submitted to CGWB on 15.07.2014. Effluent treatment plant of 87 KLD is provided for treating the combined trade effluents from the company's Zinc & Lead melting casting and Silver refining plant in the same complex, but there is no effluent generation from process. Hence, ETP is not in operation.  STP of 30 KLD is provided for treating the combined sewage effluents from the company's zinc & Lead melting casting and Silver refining plant in the same complex. The entire treated sewage effluent is being used for plantation.  With the above steps, zero discharge is being maintained.  Storm water shall be allowed to drain ensuring no contamination.  We do not take any surface water and no effluent shall be discharged to surface water body.  Ground water from bore well is being monitored at inside the plant.  Treated effluent is being monitored monthly.  Monitoring reports are attached here.(Annexure-II)
6	Efforts shall be made to make use of rain water	Three rain water storage ponds of capacity 2542, 1500 and 841 cum is

	requirement. Only balance water requirement should be met from other sources	for storing the rainwater for reuse after appropriate treatment, if required.
7	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Lucknow, SPCB and CPCB within 3 months of issue of environment clearance letter.	Risk and Disaster Management Plan has been submitted to Ministry's Regional Office at Lucknow, SPCB and CPCB on 20.07.2011.
8	As proposed, green belt shall be developed in 33 % of the plant area. Selection of plant species should be as per the CPCB guidelines in consultation with the DFO.	Phase wise plantation work has been done- to achieve the desired green belt coverage. Till date, about 10,000 Nos.of saplings (38 % of total area) have been planted in the entire complex that also includes a Silver refining plant.
9	At least 5 % of the total cost of the project shall be earmarked towards the enterprise social commitment (ESC) and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Lucknow. Implementation of such program should be ensured accordingly in a time bound manner.	CSR plan prepared and submitted to MOEF-Regional Office Lucknow, CPCB regional office Lucknow and UEPPCB Dehradun along with E.C compliance report as dated 20.07.2012., This is being implemented in phased manner with the help of local administration
10	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	As a project implementation philosophy, all construction labors are housed in labor camps provided by their employers and they commute to project site everyday with amenities as provided by their employers. No housing facilities are provided to the construction labor in the premises. Project activities are already completed in FY 2013-14.
В	General Conditions	
1	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB) and the State Government.	Shall be complied with.
2	No further expansion or modifications in the plant shall be carried out without prior approval	

	of the Ministry of Environment and Forests.	Shall be complied with
3	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>X</sub> are anticipated in consultation with the SPCB including one ambient air quality monitoring station in the downwind direction. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Lucknow and the SPCB / CPCB once in six months.	Four Sampling locations & in consultation with UEPPCB established within the plants, downwind direction where the EIA studies were conducted monitored quarterly along with one sampling point at the location where ground level concentration was predicted to be the highest. Monthly monitoring is being carried out in plant area.  Data on ambient air quality and stack emission shall be submitted regularly as stipulated and attached here. (Annexure-III).
4	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 form time to time. The treated wastewater shall be utilized for plantation purpose.	All industrial waste water is being treated as per stipulated standards and reused for industrial purpose. The domestic effluent is being treated to ensure stipulated quality and used for plantation.
5	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)	All noise generation equipments like DGs and Air compressor are installed with acoustic hoods, enclosure and noise level ensured within prescribed limit.
6	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Initial Medical examination of each employee is being done before starting any work. The periodic medical examination being carried out for the relevant occupational hazards at a frequency, as per statutory requirements.
7	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.	Storm water, ponds are made for use after appropriate treatment as explained in point A6 above. Water screening study of buffer zone & core zone was conducted as per CGWB guidelines and found that plant area is in Tarain. water table in

the plant area is very high. Hence, recharge of ground water is not possible. As per observation from the study. We can recharge water 30 Km away in forest area for which request to forest department, reply is awaited.

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.

Environment protection measures and safeguards recommended in the EIA/EMP report has been for Socio-Economic implemented activities baseline development study has been conducted with help of external agency. Action plan for implementation of recommendations in study is made and being ensured in phased manner.

The requisite funds shall be earmarked towards the capital cost and recurring cost/annum for environmental protection 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.

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A sufficient fund is made available for operation and maintenance of the facility during operation phase. The said funds not been diverted for any other purpose.

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 also be put on the web site of the company by the proponent.

written There were no suggestions/representations received from anybody while the proposal processing the copy of the Nevertheless. clearance letter has been sent to the Panchayat, Panchayat, Zila and Urban Municipal Corporation Local Body (SIDCUL).

The clearance letter along with compliance reports shall be uploaded on the company website.

11	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; RSPM, SO <sub>2</sub> , NOx and Lead (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.	Compliance status is being submitted to Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB.  Provision to upload compliance status on company website is under progress.  Display board on criteria pollutants provided at main gate.
12	The project proponent 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 Regional Office of MOEF at Lucknow, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Lucknow / CPCB / SPCB shall monitor the stipulated conditions.	Being complied.
13	The environmental statement for each financial year ending 31 <sup>st</sup> 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 be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	Environmental statement of every being submitted to Regional Office MoEF, CPCB and UEPPCB.  Provision to upload environment status in the company website is under progress and will be ensured.
14	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Lucknow.	Noted and published in newspapers of Dainik Jagaran and Amar Ujala. Copies have been submitted to Regional office at Lucknow.along with reply of letter No. IV/ENV/Utr/Ind-34/110/2011/156 dated 08.06.2011 on 20.07.2011 and to CPCB Regional office Lucknow and UEPPCB Dehardun
15	Project authorities shall inform the Regional Office as well as the Ministry, the date of	

financial closure and final approval of the production started in third week of project by the concerned authorities and the March 2012. Financial closure of the date of commencing the land development work.

project done in financial year 2013-

## Annexure - I

-			Stack -1	Stack -2	T	
S.No.	Month	Analysis			Stack of	
			Furnace	Attached to Zinc Furnace	Lead Plant	
1		PM(mg/Nm <sup>3</sup> )	21.3	24.3	39.2	
2		SO <sub>2</sub> (mg/Nm3)	9.5	10.2	13.4	
3	Apr-14	NO <sub>x</sub> (mg/Nm3)	21.8	23.6	67.3	
4		CO(mg/Nm3)	-	-	-	
5		Lead(mg/Nm3)	<1.0	<1.0	<1.0	
6		PM(mg/Nm³)	23.5	26.2	41.5	
7		SO <sub>2</sub> (mg/Nm3)	8.3	9.3	16.9	
8	May-14	NO <sub>x</sub> (mg/Nm3)	17.5	20.8	75.3	
9		CO(mg/Nm3)	-	-	_	
10		Lead(mg/Nm3)	<1.0	<1.0	<1.0	
11		PM(mg/Nm <sup>3</sup> )	21.7	24.2	44.2	
12	Jun-14	SO <sub>2</sub> (mg/Nm3)	9.2	10.3	14.9	
13		NO <sub>x</sub> (mg/Nm3)	19.7	22.9	70.6	
14		CO(mg/Nm3)	-	-	-	
15		Lead(mg/Nm3)	<1.0	<1.0	<1.0	
16		PM(mg/Nm³)	23.5	20.9	48.3	
17		SO <sub>2</sub> (mg/Nm3)	7.3	8.6	16.6	
18	Jul-14	NO <sub>x</sub> (mg/Nm3)	21.8	19.7	74.2	
19		CO(mg/Nm3)	-	-	-	
20		Lead(mg/Nm3)	<1.0	<1.0	<1.0	
21		PM(mg/Nm³)	21.9	25.9	35.2	
22		SO <sub>2</sub> (mg/Nm3)	7.3	9.2	12.3	
23	Aug-14	NO <sub>x</sub> (mg/Nm3)	22.5	22.3	58.7	
24		CO(mg/Nm3)	-	-	-	
25		Lead(mg/Nm3)	<1.0	<1.0	<1.0	
26		PM(mg/Nm³)	19.2	23.7	46.2	
27		SO <sub>2</sub> (mg/Nm3)	9.3	7.4	22.5	
28	Sep-14	NO <sub>x</sub> (mg/Nm3)	15.8	18.2	96.7	
29		CO(mg/Nm3)	-	-	-	
30		Lead(mg/Nm3)	<1.0	<1.0	<1.0	

## Annexure - I-A

America 174						
S.No.	Meatta	PARAMETTR.	Lead Plant Working Floor	Zinc Furnace Top floor	Zine casting m/c area	
1		SPM (µg/m³)	0.442	0.364	0.388	
2	Apr-14	SO <sub>2</sub> ( μg/m3)	0.021	0.013	0.012	
3	76, 14	NO <sub>x</sub> ( μg/m3)	0.039	0.029	0.033	
4		Pb( mg/m3)	<0.1	<0.1	<0.1	
5		SPM (µg/m³)	0.439	0.352	0.359	
6	May-14	SO <sub>2</sub> ( μg/m3)	0.019	0.014	0.011	
7	IVIQY 14	NO <sub>χ</sub> ( μg/m3)	0.035	0.027	0.031	
8		Pb( mg/m3)	<0.1	<0.1	<0.1	
9		SPM (µg/m³)	0.429	0.329	0.342	
10	Jun-14	SO <sub>2</sub> ( μg/m3)	0.017	0.012	0.009	
11	Juli 14	NO <sub>x</sub> ( μg/m3)	0.032	0.026	0.028	
12		Pb( mg/m3)	<0.1	<0.1	<0.1	
13		SPM (µg/m³)	0.438	0.314	0.329	
14	Jul-14	SO <sub>2</sub> ( μg/m3)	0.015	0.011	0.01	
15	30. 14	NO <sub>x</sub> ( μg/m3)	0.029	0.023	0.025	
16		Pb( mg/m3)	<0.1	<0.1	<0.1	
17		SPM (µg/m³)	0.428	0.327	0.312	
18	Aug-14	SO <sub>2</sub> ( μg/m3)	0.014	0.017	0.008	
19	7.05 2 1	NO <sub>x</sub> ( μg/m3)	0.038	0.029	0.023	
20		Pb( mg/m3)	<0.1	<0.1	<0.1	
21		SPM (µg/m³)	0.458	0.319	0.392	
22		SO <sub>2</sub> ( μg/m3)	0.017	0.011	0.009	
23	Sep-14	NO <sub>x</sub> ( μg/m3)	0.03	0.032	0.028	
24	•	Pb( mg/m3)	<0.1	<0.1	<0.1	
25		Zn( mg/m3)	-	<0.1	<0.1	
26		Sb( mg/m3)	-	-	-	

#### Annexure - II

S.No			To Profession	
1		рН	7.02	7.56
2	]	TDS( mg/L)	586	680
3		Total Suspended Solids( mg/L)	120	44
4	Apr-14	COD( mg/L)	459.7	72.8
5	]	Oil & Grease( mg/L)	10.0	<4.0
6		BOD ( mg/L)	138	22
7	]	Total Hardness ( mg/L)	150	182
8		рН	7.09	7.48
9		TDS( mg/L)	610	705
10	1	Total Suspended Solids( mg/L)	124	42
11	May-14	Total Hardness ( mg/L)	144	178
12	1	Oil & Grease( mg/L)	8.0	<4.0
13	1	COD( mg/L)	502.9	68.2
14	]	BOD ( mg/L)	150	21
15		На	7.05	7.42
16		TDS( mg/L)	630	720
17		Total Suspended Solids( mg/L)	134	38
18	Jun-14	Total Hardness ( mg/L)	156	170
19		Oil & Grease( mg/L)	10.0	<4.0
20	1	COD( mg/L)	530.5	72.9
21		BOD ( mg/L)	158	23
22		рН	7.12	7.39
23		TDS( mg/L)	680	734
24	1	Total Suspended Solids( mg/L)	120	34
25	Jul-14	Total Hardness ( mg/L)	162	186
26		Oil & Grease( mg/L)	8.0	<4
27		COD( mg/L)	509.2	65.3
28		BOD ( mg/L)	150	20
29		рН	6.81	6.95
30		TDS( mg/L)	702	884
31		Total Suspended Solids( mg/L)	158	32
32	Aug-14	Total Hardness ( mg/L)	130	192
33		Oil & Grease( mg/L)	9.0	<4
34		COD( mg/L)	461.8	64.8
35	1	BOD ( mg/L)	172	24
36		рН	7.12	7.42
37		TDS( mg/L)	642	688
38		Total Suspended Solids( mg/L)	110	34
39	Sep-14	Total Hardness ( mg/L)	130	170
40		Oil & Grease( mg/L)	9.0	<4
41		COD( mg/L)	438.5	59.2
42		BOD ( mg/L)	172	23

Annexure - III

SNO	tion ii	PARAMETER	Back side of DiG Area	SE camer of tead	Near Main Gate	Canteen east side in new plot
1		PM <sub>10</sub> ( μg/m³)	85.4	73.2	75.3	63.6
2		PM <sub>2.5</sub> ( μg/m3)	48.8	43.7	44.5	33.4
3		SO <sub>2</sub> ( μg/m3)	21.3	12.4	14.4	11.6
4		NO <sub>x</sub> ( μg/m3)	38.6	32.5	27.2	21.3
5	]	CO(mg/m3)	<1.15mg/m3	<1.15mg/m3	<1.15mg/m3	<1.15mg/m3
6	Apr-14	Pb( μg/m3)	<0.1	<0.1	<0.1	<0.1
7		As( μg/m3)	<0.1	<0.1	<0.1	<0.1
8		O3( μg/m3)	<10.0	<10.0	<10.0	<10.0
9		NH3( μg/m3)	<20.0	<20.0	<20.0	<20.0
10		C6H6( µg/m3)	<1.0	<1.0	<1.0	<1.0
11		PAH((as Benzo (α) Pyrid	<1.0	<1.0	<1.0	<1.0
12		PM <sub>10</sub> (μg/m³)	87.3	75.1	78.3	65.7
3		PM <sub>2.5</sub> ( μg/m3)	51.2	41.7	42.1	30.8
14		SO <sub>2</sub> ( μg/m3)	19.4	13.9	16.5	12.6
15		NO <sub>x</sub> ( μg/m3)	40.7	30.4	30.8	23.4
16		CO(mg/m3)	<1.15mg/m3	<1.15mg/m3	<1.15mg/m3	<1.15mg/m3
17	May-14	Pb( μg/m3)	<0.1	<0.1	<0.1	<0.1
18		Nickel ( µg/m3)	<15.0	<15.0	<15.0	<15.0
19		As( μg/m3)	<0.1	<0.1	<0.1	<0.1
20		O3( μg/m3)	<10.0	<10.0	<10.0	<10.0
21		NH3( μg/m3)	<20.0	<20.0	<20.0	<20.0
22		C6H6( µg/m3)	<1.0	<1.0	<1.0	<1.0
23		PAH((as Benzo (α) Pyrid	<1.0	<1.0	<1.0	<1.0
24		PM <sub>10</sub> (μg/m³)	85.5	77.2	74.1	62.4
25		PM <sub>2.5</sub> ( μg/m3)	53.8	43.5	39.5	32.7
26		SO <sub>2</sub> ( μg/m3)	17.6	15.7	14.6	10.3
27		NO <sub>x</sub> ( μg/m3)	36.2	27.6	33.4	21.5
28		CO(mg/m3)	<1.15mg/m3	<1.15mg/m3	<1.15mg/m3	<1.15mg/m3
29	Jun-14	Pb( μg/m3)	<0.1	<0.1	<0.1	<0.1
<u>0</u> 0		Nickel ( μg/m3)	<15.0	<15.0	<15.0	<15.0
31		As( μg/m3)	<0.1	<0.1	<0.1	<0.1
32		O3( μg/m3)	<10.0	<10.0	<10.0	<10.0
33 34		NH3( μg/m3) C6H6( μg/m3)	<20.0 <1.0	<20.0 <1.0	<20.0 <1.0	<20.0 <1.0
35		PAH((as Benzo (α) Pyrid	<1.0	<1.0	<1.0	<1.0
36		PM <sub>10</sub> ( μg/m <sup>3</sup> )	83.5	73.6	70.2	65.4
37		PM <sub>2.5</sub> ( μg/m3)				
	Jul-14	SO <sub>2</sub> ( μg/m3)	55.9	45.2	41.6	34.6
38			15.7	12.8	10.3	8.8
39		NO <sub>x</sub> ( μg/m3)	33.4	25.1	28.4	19.7
40		CO(mg/m3)	<1.15mg/m3	<1.15mg/m3	<1.15mg/m3	<1.15mg/m3
41		Pb( μg/m3)	<0.1	<0.1	<0.1	<0.1
42		Nickel ( μg/m3)	<15.0	<15.0	<15.0	<15.0
43		As( μg/m3)	<0.1 <10.0	<0.1 <10.0	<0.1 <10.0	<0.1 <10.0
44		O3( μg/m3) NH3( μg/m3)	<10.0	<20.0	<10.0	<20.0
L 42	J	[rans/ hg/ms]	<b>\2</b> U.U	~20.0	\20.0	\20.0

46	l	CCUCL 1 2)	4.0		1.0	4.0
46		C6H6( µg/m3)	<1.0	<1.0	<1.0	<1.0
47		PAH((as Benzo (α) Pyrid	<1.0	<1.0	<1.0	<1.0
48		PM <sub>10</sub> ( μg/m³)	86.3	71.8	76.9	66.1
49		PM <sub>2.5</sub> ( μg/m3)	52.8	40.3	46.2	34.8
50		SO <sub>2</sub> ( μg/m3)	17.9	11.6	15.3	7
51		NO <sub>x</sub> ( μg/m3)	35.2	28.1	31.8	19.4
52	•	CO(mg/m3)	<1.15mg/m3	<1.15mg/m3	<1.15mg/m3	<1.15mg/m3
53	Aug-14	Pb( μg/m3)	<0.1	<0.1	<0.1	<0.1
54		Nickel ( μg/m3)	<15.0	<15.0	<15.0	<15.0
55		As( μg/m3)	<0.1	<0.1	<0.1	<0.1
56		O3( μg/m3)	<10.0	<10.0	<10.0	<10.0
57		NH3( μg/m3)	<20.0	<20.0	<20.0	<20.0
58		C6H6( μg/m3)	<1.0	<1.0	<1.0	<1.0
59		PAH((as Benzo (α) Pyrid	<1.0	<1.0	<1.0	<1.0
60		PM <sub>10</sub> ( μg/m³)	90.4	79.4	85.6	68.5
61		PM <sub>2.5</sub> ( μg/m3)	54.2	45.3	49.2	34.9
<b>-62</b>		SO <sub>2</sub> ( μg/m3)	17.6	11.8	14.7	10.2
63		NO <sub>x</sub> ( μg/m3)	35.9	26.2	34.5	21.8
64		CO(mg/m3)	<1.15mg/m3	<1.15mg/m3	<1.15mg/m3	<1.15mg/m3
65	Sep-14	Pb( μg/m3)	<0.1	<0.1	<0.1	<0.1
66		Nickel ( μg/m3)	<15.0	<15.0	<15.0	<15.0
67		As( μg/m3)	<0.1	<0.1	<0.1	<0.1
68		O3( μg/m3)	<10.0	<10.0	<10.0	<10.0
69		NH3( μg/m3)	<20.0	<20.0	<20.0	<20.0
70		C6H6( μg/m3)	<1.0	<1.0	<1.0	<1.0
71		PAH((as Benzo (α) Pyrid	<1.0	<1.0	<1.0	<1.0

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