

Vide Letter No.: HZL/PMP/18-19/H-II

Date: 03.04.2019

To,
The Regional Officer (North Central Zone),
Ministry of Environment, Forests & Climate Change,
25, Subhash Road, Dehradun-248001
Uttarakhand

Subject: Submission of Environment Clearance compliance report for Pantnagar Silver Refinery Plant (Refined Silver production 800TPA) of M/s Hindustan Zinc Limited, Plot No 2 & 3, Sector 14, IIE, SIDCUL, Pantnagar, Dist. U.S. Nagar for the period **October-2018 to March-2019.**

Ref; Letter No:- E.C. No.- 10-9(10)/2018 dated 08-02-2019 from SEIAA, Dehradun.

Dear Sir,

With reference to the aforesaid subject, we have obtained Environment Clearance from State Environment Impact Assessment Authority, Dehradun for Pantnagar Silver Refinery Plant (Refined Silver production 800TPA) on dated 08.02.2019.

Please find enclosed herewith the Compliance report of Environment Clearance for Pantnagar Silver Refinery Plant (Refined Silver production 800TPA) of M/s Hindustan Zinc Limited, Plot No 2 & 3, Sector 14, IIE, SIDCUL, Pantnagar, Dist. U.S. Nagar for the period of October-2018 to March-2019.

In case any additional information / documents / clarifications are required, the same may kindly be informed to us.

Thanking you.
Yours faithfully,

(Lalan Deo)

Unit Head

Pantnagar Silver Refinery Plant
Hindustan Zinc Limited

Hindustan Zinc Ltd.
Pantnagar Plant
SIDCUL, Pantnagar (U.P.)

- CC: 1. Member Secretary, SEIAA, Dehradun
2. MS office, UEPPCB, Dehradun
3. Regional Officer, UEPPCB, Kashipur
4. Office copy, HZL

Hindustan Zinc Limited

Pantnagar Metal Plant

Plot No. 2 & 3, Sector 14, IIE, SIDCUL Pantnagar

☎: 05944-257300, www.hzindia.com

Regd. Office: Yashad Bhawan, Udaipur (Rajasthan) - 313 004
CIN : L27204RJ1966PLC001208

Compliance Status of Environment Clearance

Name of the Project: M/s Hindustan Zinc Limited
Pantnagar Silver Refinery Plant

Location of the Project: Plot No.- 2 & 3, Sector 14, IIE, SIDCUL,
Pantnagar, District - Udham Singh Nagar,
Uttarakhand - 263153

(Letter No: E.C. No.- 10-9(10)/2018 dated 08-02-2019)

S. N.	Specifications	Status
	<u>Pre Operation-</u>	
1	The project proponent should advertise with basic details at least in two widely circulated local newspapers, within seven (7) days of the receipt of the clearance letter informing that the project has been accorded environmental clearance which is available with the State Environment Impact Assessment Authority, Dehradun and a copy of the same is being sent to the Regional Office of Ministry of Environment and Forest, Government of India located at 25 Subhash road Dehradun.	Silver 800 TPA Environment Clearance letter was received on 08.02.2019. It was advertised in two local newspapers i.e. Amar Ujala & Danik Jagran on date 10.02.2019. Copy of the same is attached herewith as Annexure-1
2	A copy of the Environmental Clearance letter shall be sent by the proponent to the concerned Panchyat, if any from whom suggestion/representation, if any, were received while processing the proposal.	Copy of Environment Clearance letter submitted to the Zila Panchyat office-Udham Singh Nagar (Rudrapur) on date 11.02.2019. Copy of receiving letter is attached herewith as Annexure-2
3	Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.	Consent to Establish and Consent to Operate obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act on 28.02.2019 & 29.03.2019 respectively. Copy of consent approvals are attached herewith as Annexure-3a & 3b.
4	There shall be no felling of tress at the construction site and further no damage to the local vegetation shall be done. The installation of equipments/machineries shall be done within the vacant space available in the plant premises.	Complied as no tree felling and no damage to local vegetation done at construction site. The new equipments/machineries being installed within the vacant space available in the plant premises.
	<u>During Operation Phase-</u>	
1	The Environmental Clearance is being granted for Refined Silver production from 600 TPA to 800 TPA (monthly 85 tonnes per month with overall 800 tons per annum). Apart from 800 TPA Refined Silver (powder/ingot etc.) product, Antimony Concentrate(precipitate/salt mix)- 1800TPA, Bismuth Concetrate(precipitate/salt mix)-360TPA, Copper Matte-	Noted and Being complied.

Hindustan Zinc Ltd.
Pantnagar Plant
SIDCUL, Pantnagar

	140TPA, and Oxidation Slag- 1250TPA, Silver Nitrate- 25TPA, Silver anode slime/Silver sand- 10TPA, Lead slag- 450TPA, VRF zinc- 650TPA, VRF zinc dross- 100TPA will also be produced as a by-products. Major raw materials are Anode Slime/Dore Silver/HGM (high grade metal) - 4680TPA which will be procured from HZL's smelters and from open market. Other consumables are Coke- 87 TPA, Soda Ash- 250 TPA, Salt peter (Potassium Nitrate)- 89 TPA, Nitric acid- 150 TPA, Ethyne- 10 TPA, Charcoal- 20 TPA, Sodium Chloride- 15 TPA, Borax- 15 TPA, LDO/HSD/LNG/LHSH/PNG/LPG- 4500 TPA, Calcium Fluoride- 40 TPA, Sulphuric Acid- 5 TPA and Lime 5 TPA.	
2	Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.	Consent to Establish and Consent to Operate obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act on 28.02.2019 & 29.03.2019 respectively. Copy of consent approvals are attached herewith as Annexure-3(a) & 3(b).
3	A copy of the Environmental Clearance letter shall be sent by the proponent to the concerned Panchyat, if any from whom suggestion/representation, if any, were received while processing the proposal.	Copy of Environment Clearance letter submitted to the Zila Panchyat office Udham Singh Nagar (Rudrapur) on date 11.02.2019. Copy of receiving letter is attached herewith as Annexure-2
4	The soil and groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.	The soil and groundwater samples are being tested regularly by NABL accredited lab (M/s Eko Pro Engineers, Ghaziabad) and all test results are being complied with CPCB standard. Zero effluents generated from the plant so there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants. Test reports are being attached herewith as Annexure 4(a).
5	No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.	'Zero Liquid discharge' maintained and is being ensured.
6	The gaseous emissions (SOx, NOx, CO) and particulate matter 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 the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Gaseous emissions of SOx, NOx, CO and Particulate matter being monitored periodically by NABL authorized third party (external agency). Emission levels are being ensured as per the stipulations. Test reports are being attached herewith as Annexure 4(b). During failure of pollution control system, will ensure the compliance. In addition, online PM analyzers in all process stacks, SOx, NOx & PM analyzer in DG stacks installed for effective monitoring & control the emissions. Photos of the analysers are attached as Annexure 5.

7	Fugitive emissions in the work zone environment, product and raw materials storage areas shall be regularly monitored. The emissions shall conform to the limits imposed by the UEPPCB/Central Pollution Control Board.	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. Fugitive emission levels are being ensured as per the stipulations. Test reports are being attached herewith as Annexure 4(c).
8	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storages and Import of Hazardous Chemicals Rules, 1989, as amended from time to time. Authorization from the UEPPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	Appropriate storage facilities have been installed for storing Hazardous chemicals/wastes. Photos of the HW storage site is attached as Annexure 6. Authorization for the year 2018-19 of Hazardous waste under Hazardous Waste Rules 2008 has been granted by UEPPCB along with CCA.
9	Installed furnace should meet the air pollution discharge norms of CPCB/ UEPPCB.	Installed furnaces have equipped with adequate and 99.5% efficient bag filter to ensure the air pollution discharge norms as per CPCB/UEPPCB.
10	The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with DG sets on site complying with Noise Levels of CPCB standards.	The ambient air quality and noise levels as per CPCB norms are being ensured through monthly monitoring through NABL certified lab. Acoustic enclosures provided with DG sets on site complying with Noise Levels of CPCB standards Test reports are being attached herewith as Annexure 4(d).
11	The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB.	Being complied. All the vehicles engaged in transportation of product and raw materials are regularly checked for "Pollution Under Control" certificates. No overloading is allowed. Integrated Transport Management System (ITMS) is being used for effective control of vehicular traffic. Emission and Noise level being complied and results are attached as Annexure 4(a) & 4(d).
12	All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time.	Being complied. First Aid facility equipped with trained staff already provided in plant premises. IME for new manpower and PME for regular manpower being ensured as per statutory requirements.
13	Adequate drinking water and sanitation facility shall be provided on site for the workforce.	Being complied. Adequate drinking water and sanitation facility already provided within plant premises.
14	Training shall be imparted to all employees on safety and health aspects. Pre- employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.	Being complied. Trainings to all employees on Safety and health aspects are being provided on regular interval. Pre-employment & periodic medical examination are being carried out for the relevant occupational hazards at a regular frequency, as per statutory requirements.

15	The project authority shall also comply with all the environment 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 being implemented.
16	A separate Environmental Management Cell shall be set up to carry out the Environmental Management functions.	Separate Environment Management cell is already in place for all Environment Management functions. Environmental monitoring being ensured through Authorized third party (external agency) regularly.
17	The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.	Fire safety arrangements equipped with dedicated Fire tender and team already provided in plant premises. Fire hydrants are in auto mode. Onsite Emergency response plan already in place.
18	Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and other particles.	Three rain water storage ponds capacity of 2542, 1500 & 841 cum are already provided inside the plant area. Stored rainwater being reused after appropriate treatment, if required. As ground water level in the region is less than 5 m and as per guidelines of CGWA 2015 point (i) of clause 6, so recharge of ground water is not possible as per CGWA guidelines. However, storm water is being used for process & plantation to reduce the fresh water consumption. Photographs of storm water ponds are attached herewith as Annexure 7.
19	Energy conservation measures to be adopted for reducing the energy consumption.	Being complied. Various energy conservations measures being adopted in plant for reducing the energy consumption.
20	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.	Being complied. All the emissions are being maintained within prescribed limit. Inter locked pollution control system are in place and functioning.
21	The locations of ambient air quality monitoring stations shall be reviewed in consultation with UEPPCB, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	Complied. Four Ambient air quality monitoring location already finalized in the downwind direction of the plant in consultation with RO, UEPPCB. CAAQMS installed at plant premises.
22	The stacks of appropriate height as per the central pollution board guidelines shall be provided to control the emissions.	Complied. Adequate stack height is provided as per CPCB guidelines: <ul style="list-style-type: none"> • 40 m stack height for furnace off gases • 30 m stack height with NOx scrubber provided in electrolyte section • 20 m height for 500 KVA DG set Photo of stack is attached herewith as Annexure 8.
23	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods,	Being complied. Various noise reduction measures are adopted, to ensure compliance to Ambient noise standards, at the design stage of

	silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standard prescribed under Environment (Protection) Act, 1986 rules, 1989 viz. 75 dB(A) (day time) and 70dB(A) (Night time).	the projects as: Acoustic enclosure provided for DG set and all the necessary provision made in compressor area. Noise level monitoring is being done and ensured within limit reports are attached herewith as Annexure 4(d).
24	One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material shall be used during plantation as per standards of State Forest Department. The species selection should include criterion of fruit bearing and fast growing tall trees. The concerned official of State Forest Department shall ensure the compliance.	Complied. Till date, 11,700 plus No's saplings have been planted. The greenbelt of 38 per cent area has been covered by selection of plant species as per CPCB guideline and in consultation with DFO. However, gap filling plantation is being carried out to maintain the survival rate of the plants.
25	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data in soft copy to this Authority and regional office of MoEF, Govt. of India at Dehradun.	Being Complied. Last six monthly report was submitted to SEIAA, Dehradun and RO, MOEF office Dehradun vide letter no HZLP/18-19/H-1 dated 13.10.2018
	Entire Life--	
1	The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB.	Being complied. All the vehicles engaged in transportation of product and raw materials are regularly checked for "Pollution Under Control" certificates. No overloading is allowed. Integrated Transport Management System (ITMS) is being used for effective control of vehicular traffic. Emission and Noise level being complied and results are attached as Annexure 4(a) & 4(d).
2	All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time.	Being complied. First Aid facility equipped with trained staff already provided in plant premises. IME for new manpower and PME for regular manpower being ensured as per statutory requirements.
3	Adequate drinking water and sanitation facility shall be provided on site for the workforce.	Being complied. Adequate drinking water and sanitation facility already provided within plant premises.
4	Training shall be imparted to all employees on safety and health aspects. Pre- employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.	Being complied. Trainings to all employees on Safety and health aspects are being provided on regular interval. Pre-employment & periodic medical examination are being carried out for the relevant occupational hazards at a regular frequency, as per statutory requirements.
5	The project authority shall also comply with the entire environment protection measures and safeguards proposed in the EIA/EMP report. All the recommendations made in respect of environmental management and risk mitigation measures	Environment protection measures and safeguards recommended in the EIA/EMP report being implemented.

	relating to the project shall be implemented.	
6	The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.	Fire safety arrangements equipped with dedicated Fire tender and team already provided in plant premises. Fire hydrants are in auto mode. Onsite Emergency response plan already in place.
7	Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and other particles.	Three rain water storage ponds capacity of 2542, 1500 & 841 cum are already provided inside the plant area. Stored rainwater being reused after appropriate treatment, if required. As ground water level in the region is less than 5 m and as per guidelines of CGWA 2015 point (i) of clause 6, so recharge of ground water is not possible as per CGWA guidelines. However, storm water is being used for process & plantation to reduce the fresh water consumption. Photographs of storm water ponds are attached herewith as Annexure 7.
8	The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project.	Noted and being complied.
9	The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF, Govt. of India at Dehradun.	Separate Environment Management cell is already in place for all Environment Management functions. Environmental monitoring being ensured through Authorized third party (external agency) regularly.
10	The SEIAA reserves the right to include additional safeguard measures if found necessary and also to take action including revoking of the EC granted under provision of EIA Notification 2006. This EC is being granted subject to compliance of Hon'ble Court Orders issued from time to time.	Noted.
11	The SEIAA Uttarakhand reserves the right to withdraw the Environmental Clearance or add additional conditions.	Noted.
12	If this Environmental Clearance is transferred then fresh Environment Clearance is to be obtained under EIA notification dated 14.09.2006. However, no activity shall be undertaken till the Environment Clearance is transferred in his name and he is lawfully bound to Comply with the conditions of the Environmental Clearance.	Noted.
13	Corporate Environment Responsibility be followed as proposed.	Will be complied. Various projects are under planning stage as proposed in CER and will be implemented in FY 2019-20.

Hindustan Zinc Ltd.
Pan Nagar Plant
SIDCUL, Pan Nagar (U.K.)

रेल ट्रैक के पेंडोल किल्प बरामद

काशीपुरा एक सप्ताह पूर्व रेलवे ट्रेक से पेंडोल क्लिप चुराने के आरोपी को अपराधी ने घर दबोचा। आरोपी के कब्जे से चुराए गए पेंडोल क्लिप भी बरामद कर लिए गए।

दो मावरी की दो रात
मानस और बैरिया दोलत
सिद्ध के बीच लेख टेक से
प्रसन्न स्थिति ने 33 पंडित
विनय निकाल लिए थे।
गनीमत रही इस दौरान
कोई कौन इन मावरी से नहीं
पुखरी। मस्त कर रहे पंडित
मैत नानू ने विनय निकालने की सुझा
आपोग्रह की दो। अगले दिन
आपोग्रह ने अंशतः व्यक्तियों के
विश्लेषण मुकदमा संकोचक का
आपोग्रह की आपकाव्य के लिए
एचआई तरंग अंश के नवदुल में एक
दो रात की थी। सन्निवार की
प्रधानी की सुझा पर आपोग्रह दो

आरपीएफ ने आसामी को गिरफ्तार किया

एक नरेश को धर दियो।
मुसलमान में उसने अपना नाम
महेश गुप्ता रखा नन्दु बिराज
आदम कोशिकी बालपुर सागर।
आर्यभट्ट ने उसकी निशानदेही
पर सभी 33 बिल्व भी बरामद
कर लिये।

आर्यो ने तम्र की लता को पुरा करने के लिए जोरी को चारदात की उज्जम दिया था। उसके विशद मान्य आर्य में भी चोरो के नुकसान दूर हो। भारोपण विनियम आर्य मूल्य में बजला कि आर्यो का रेल संपत्ति अत्यंत कठोर आर्थिकयम की धारा सेन के रहत मान्य विनय गद्य है। रीम में हो चारदात दीवान नाम, रीम जोरी अत्यंत योग्य आर्य है।

आरटीआई लगाई तो सड़क
मरम्मत में आ गई तेजी

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महोदय से रतनपुरा-मण्डवगाम होकर
जमशेदपुर को जाने वाली सड़क के चार
किमी जहाँ हो चुकी है। परबडीम सिविक
प्रकाश ने स्थानीय के अधिकारियों से बात

हिन्दुस्तान जिंक लिमिटेड

गति ऑफिस: यशद भावन, उदयपुर-313 004
PBX No. 0234-6684000, CIN-L27204RJ1986PLC001208, www.hindia.com

पाननगर सिल्वर रिफाइनिंग मॉयज़, प्लॉट नं.-263, सेक्टर-14, गेट, सिडकुल,
पाननगर, जिला-उधमसिंह नगर (उत्तराखण्ड)-263153

पर्यावरण स्वीकृति प्राप्ति बाबत सचना

सर्वसाधारण को सूचित किया जाता है कि राज्य स्तर पर विभिन्न समानान्वयित निष्पक्ष प्रमाणन, उत्तराखण्ड (भारत सरकार के पर्यावरण, जल एवं जलवायु परिवर्तन मंत्रालय, पूर्व दिल्ली द्वारा गठित) देहातून के पूर्व कामकाज E.G. No.-10-9(10)/2018 दिनांक-08 जनवरी 2019 के द्वारा हिन्दुस्तान प्रिंक लिमिटेड के पतनपुर सिन्धर रिफाइनिंग संयंत्र की वर्तमान डिजाइन क्षमता 600 टन प्रतिवर्ष सिन्हाईड स्टीलक उत्पादन में बढ़ाकर 800 टन प्रतिवर्ष रिफाईड सिन्धर उत्पादन हेतु पर्यावरण स्वीकृति प्रदान कर दी गयी है। इसकी प्रति राज्य स्तर पर पर्यावरण सम्मानित निष्पक्ष प्रमाणन, उत्तराखण्ड SEIAA के कार्यालय में उपलब्ध है, साथ ही हिन्दुस्तान प्रिंक लिमिटेड की वेबसाइट www.hzllindia.com पर भी उपलब्ध है।

ललन नारायण देव
यूनिट हेड, पंतनगर सिल्वर रिफाइनिंग संघ

[illegible]

आपका विश्वास
हमारे लक्ष्य

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अनुभव 3 से 5 वर्ष एवं सोल्ड डिप्लोमा/डिग्री अनुभव 1 वर्ष चाहिए।
Mail Us: Sales@spicekitchen.com

रुद्रपुर मंडी समिति में गंदगी का साम्राज्य

गेट से लेकर **लूना तक** लगा कूड़े का ढेर

374 曹世文

जागरण संवाददाता, रुद्रपुर: किसानों के उत्पाद को बाजार उपलब्ध करवाने के लिए स्थापित मंडी समिति में गंदगी का संप्राप्त्य है। मुख्य गेट से लेकर विभिन्न दुकानों के पास कूड़े के ढेर लगे हुए हैं। जबकि मंडी प्रशासन का कहना है कि परिसर में निर्गमन सफाई की जा रही है।

मंडी परिसर घणघड़ा में सफाई व्यवस्था बंदहाल है। सब्जियों का अवशेष व सड़े हुए फल परिसर में डाल दिए गए हैं। जिससे गंदगी बढ़ती जा रही है। क्षेत्रीय आदितियों का कहना है कि परिसर में सफाई के नाम पर सिर्फ दुकानों के पास से कुछा उठाय जा रहा है। लेकिन बाद में उसे दुकान के दो पीले एस्कुर किया जाता है। जिसका स्थायित्व स्थानीय दुकानदारों को भुगतना पड़े रहा है। बी-5 में दुकान लगाने वाले अफसर व बी-4 के दुकानदार जगदीश चंद्र ने बताया कि कुछा सड़ने से उसका पानी उनकी दुकानों में सीलन के जरिए भर रहा है। जिससे दुकान के अंदर फल व सब्जियों खराब हो रही है।

कर्मियों का दी जानकारी

रुद्रपुर टाटा मोटर्स कंपनी में 30 या अधिक सुरक्षा समर्थक शनिवार को मनाया गया। इस अवसर पर हस्तानी के आस्टीआ राजीव मेहरा ने कंपनी के अधिकारी या कर्मचारियों का दैनिक नियमों के बारे में विस्तार से जानकारी दी। इस दौरान रनजीत धर जी के सिंह, हरीश नेगी, प्रआस्टीआ अध्यक्ष संदीप सेनी, प्रवक्ता दीप आदि रहे।

बगवाड़ा मंडी में
जनसुविधाएं भी
हैं बंदहाल

लेदपुर : बगदादा मंत्री में राज सरकारों की सख्ता में किसान अपना कृषि उत्पाद लेकर पहुंचते हैं। लेकिन इसके बाद भी जलसुविधाएं बहाल हैं। जिनकी ओर कोई ध्यान देने वाला नहीं है। पानी के नलों के पास गंदगी व कचरे हैं। जबकि परिसर में कई जगह पानी भरने के कारण मच्छरों का आतंक भी है। परिसर में बने मूत्रालय में सात भर से साफाई नहीं हुई है। जबकि मूत्रालय में ही लोगों ने खुले में शौच भी किया है। जबकि परिसर में एक अन्य शौचालय भी है। इस तरह की बहालों से लोगों में आक्रोश फैल रहा है।

मंडी परिसर में सड़कियों के अवशेषों को जैविक खाद बनाने के लिए प्लांट लगाया गया है। जिससे विद्युत कनेक्शन के बाद इसे शुरू किया जाएगा। इसी के लिए कुछ परिसर में रखा गया है।

-आशा गोरवामी
सचिव मंडी समिति
बगदाडा, रुद्रपुर

मजार व रेलवे स्टेशन पर
चला सफाई अभियान

खटीमा चकरपुर के व्यापारियों ने गुलरगाह बाबा की मजार व रेलवे स्टेशन पर सफाई अभियान चलाया। इस दौरान उन्होंने स्टेशन पर मज्जार परिसर से कुड़ा-कचरा एकत्र कर नष्ट किया।



ज्वापर मंडल
अध्यक्ष राधेश
सिंह जोशी के
नेतृत्व में कस्बे के
ज्वापारी मानिहार को रेलवे स्टेशन व
मजदूर पर पहुंचा। जहाँ उन्होंने हाथों में
झाड़ पकड़कर झुड़ा-कचरा साफ किया।
बाद में उन्होंने ग्राम प्रधान संदीप राणा के
सहयोग से कस्बे की खराब पड़ी स्ट्रीट
लाइटों को भी ठीक करवाया। इस मौके
पर रमेश पोंडे, हरीश फुलेरा, कैलाश
सिंह, अशोक कुमार, नरेश कुमार आदि
मौजूद थे। संस

ASCLEPIUS इलेक्ट्रॉनिक्स प्राइवेट लिमिटेड
P.N. 15 कॉम्प-बी, मीरठ-6,
मैथिल - 17, इलाहाबाद विभागा - 110075
CIN-U61909DL2014PTC272298
संपर्क नं. 01126033739

ॐ नमो भगवते वासुदेवाय
 customer care: 080-42536195, 080-42536196
 website: www.asclepiuswellness.com
 ॐ ASCLEPIUS गुरुजी को नमस्कार
 हमारे पास ६ वर्षों की परम्परागत वैदिक चिकित्सा की अनुभव-
 समृद्ध सेवा है। हमारे सभी प्रत्यक्ष चिकित्सकों की
 योगप्रशिक्षण का सम्बन्ध है। वे बहुत पुराने गहन
 योगी हैं जो आपने हमारे संबंध बनाए हैं। आयुर्वेदिक
 उपचारों की प्रशिक्षण है। हमारी आवश्यकताएं
 प्रभाव प्रदान करने की विभिन्न सुविधाओं के
 माध्यम से निष्पन्न हो सकती हैं। हमारे लिए यह
 दिल से सम्मान है।
 हमें हमारे सभी मुख्य प्रत्यक्ष चिकित्सकों की
 परम्परागत या संपूर्ण सेवा है। बहुत ही पुरानी सेवा
 है। हमारे गहन योगी हैं। और हमारे सभी
 चिकित्सकों की कई साल तक सेवा करने की सेवा
 प्रदान है।

[illegible]

पुनीत कुमार
अध्यक्ष एवं प्रबंध निदेशक
ABCLPPLS वेलनेस प्राइवेट लिमिटेड
दिनांक: 09/02/19

हिन्दुस्तान जिंक लिमिटेड

राजि. ऑफिस: वणद भवन उदयपुर-313004

PBX No. 0294-6604000, CIN-L27204RJ1966PLC001208, www.hzlindia.com

पतनगर सिल्वर रिफाइनिंग संयंत्र, प्लॉट नं.-2&3, सेक्टर-14, IIE, सिड्कुला, पतनगर
जिला-कथमसिल्लगर (अरुणाचलप्रदेश) - 763153

पर्यावरण स्वीकृति प्राप्ति बाबत सूचना

पर्यावरण को सुचित किया जाता है कि राज्य स्तर पर्यावरण समाधान निधि का प्राधिकरण, उत्तराखण्ड, SEIAA (भारत सरकार के पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा गठित) देहरादून के प्रजा क्रमिक E.C. No.-10-9 (10)/2018 दिनांक-08 फरवरी 2019 के द्वारा हिन्दुस्तान ग्रीक लिमिटेड को प्रतियोगी सिस्टर रिफाइनिंग संयंत्र की वर्तमान उत्पादन क्षमता 600 टन प्रतिवर्ष रिफाइंड सिस्टर अपटन से बढ़ाकर 800 टन प्रतिवर्ष रिफाइंड सिस्टर उत्पादन हेतु पर्यावरण स्वीकृति प्रदान कर दी गयी है। इसकी प्रति राज्य स्तर पर्यावरण समाधान निधि का प्राधिकरण, उत्तराखण्ड, SEIAA के कार्यालय में उपलब्ध है। साथ ही हिन्दुस्तान ग्रीक लिमिटेड की वेबसाइट "www.hzlindia.com" पर भी उपलब्ध है।

युनिट हेड, पोतमगा तालुका शिक्षाक्षेत्रांत संस्था

स्वास्थ्य शिविर में 119 मरीजों का हुआ

हंस, बालपुर : उत्तराखण्ड होम्योपैथिक चिकित्सा सेवाएं की ओर से लखनपुर में निःशुल्क स्वास्थ्य शिविर लगाया गया। जिसमें चिकित्सकों की टीम ने 119 मरीजों का परीक्षण किया। साथ ही दवाइयां वितरित की गईं। होम्योपैथिक निदेशक डॉ. राजेंद्र सिंह व जिला होम्योपैथिक चिकित्साधिकारी डॉ.अश्वय कुमार ने शिविर का शुभारंभ किया। इस मौके पर डॉ. खेमपाल सिंह, प्रधान सचिवता देवी, नीलाय, डॉ. शिल्पा संमल, योनि, अनीश, गुरदीप सिंह आदि थे।



लखनपुर में शनिवार को त्रिकित्सा शिविर में मरीजों का उपचार का

TANISHQ Come, be a
India's No.1 jewellery

The most desirable jewellery brand in India has entered the jewelers industry. It is one of the biggest jewelers in the country. To support this rapid growth, we have launched this exciting venture for Rudrapur Jewellery Showroom in Kumaon region.

Position : STORE MANAGER/ASST.STOREI

Required Graduate / MBA with 5 To 7 years of retail sales. Candidate should have experience in retail business. Team Management & Team handling. Have strong communication skills & knowledge of other regional language.

Position: CASHIER

Required Graduate (Accountancy/Commerce) preferred from Jewellery business /Retail business to 5 Years of experience, Also Candidate Compulsory knowledge of English Language, Cost & Finance reporting

RETAIL SALES OFFICER (Male/Female)

Graduate with 2-5 years of experience in retail sales from jewellery industry. Even fresher can also apply. Salary and remunerations will not be a constraint for candidates.

Please send your resume along with recent photo on the following

e-mail id: infognpgroup@gmail

A Walk in interview on 15 & 16th Feb
between 10 am to 5 pm

ADDRESS : Durga City Center SHOP NO
STATE BANK OF INDIA, Sanwal Chadha C
IDBI Bank OPP VLCC, NAINITAL ROAD,
Contact Off: 9917019333, 9837015235



HZI/PSD/EC/2018-19/14

Date: 11/02/2019

To,

Zila Panchayat Officer,
Rudrapur, J. Jham Singh Nagar
Uttarakhand (PIN) Vt-263153

Subject: Copy of Environment Clearance for Expansion of production capacity from 600 TPA to 800 TPA Refined Silver of M/S Hindustan Zinc Limited (Pantnagar Silver Plant), Plot- 2 & 3, Sector-14, IIE, SIDCUL, Pantnagar, PS Nagar (Uttarakhand)" submission at Zila Panchayat Reg.

Ref: E.C. No. 10-9(10)/2018 dated 08-02-2019

Dear Sir,

With reference to aforesaid subject, We have obtained Environment Clearance from SIDVA Dehradun vide letter no. 10-9(10)/2018 dated 08-02-2019 for our Silver refinery plant expansion from 600 TPA to 800 TPA.

To comply with EC condition Number 2 (pre-operation) and Number 3 (during operation phase) copy of Environment Clearance letter is attached along with this letter for public information.

Please acknowledge the Pantnagar Silver Refinery 800 TPA EC copy at your office.

Thanking you,


Lalit Datta
Unit Head
For HZI, Pantnagar Silver Plant

Encl: As above



Hindustan Zinc Limited

Pantnagar Metal Plant

Plot No. 2 & 3, Sector 14, IIE, SIDCUL, Pantnagar

☎: 05944-257300, www.hzindia.com

Regd. Office: Yashad Bhawan, Udaipur (Rajasthan) - 313 004

CIN: L27204RJ1966PLC001308

ANNEXURE-3(a)



मुख्यालय
गौरा देवी भवन

उत्तराखण्ड पर्यावरण संरक्षण एवं प्रदूषण नियंत्रण बोर्ड
46बी, आई.टी. पार्क, सहस्त्रधारा रोड़, देहरादून-248001

प्रमाण-सूचिकांक/सीबी.एच.डी.समञ्जसी-1509/2019-2001

दिनांक 28.02.2019

सेवा में,

Registered/AD

M/s Hindustan Zinc Ltd.,
Pantnagar Silver Plant,
Plot No :2 & 3, Sector-14,
HE, Sidcul Pantnagar,
Rudrapur, Tehsil-Kicheha,
Distt-U.S.Nagar.

PCB ID : 10913
CTE : Expand
Outward No-

विषय :- पर्यावरणीय प्रदूषण की दृष्टि से पूर्व में स्थापित इकाई को क्षमता विस्तारीकरण हेतु स्थापनार्थ सहमति पत्र
(Consent to Establish for Expansion) निर्गमन।

संदर्भ :-

कृपया उपरोक्त विषयक आपके आवेदन पत्र दिनांक 12.2.2019 (INWARD : 242007) एवं तत्सम्बन्धी क्षेत्रीय कार्यालय की विरीक्षण आख्या एवं संस्तुति का बोर्ड मुख्यालय में परीक्षण किया गया एवं परीक्षणोपरान्त लिए गए नमूने के ऊपर से उद्योग की पर्यावरणीय प्रदूषण के दृष्टिकोण से निम्नलिखित विशिष्ट शर्तों एवं सामान्य शर्तों के सम्बन्धित अनुपालन की शर्त के साथ सशर्त स्थापनार्थ सहमति पत्र निर्गत किया जाता है।

1- यह क्षमता विस्तारीकरण हेतु स्थापनार्थ सहमति पत्र निम्नलिखित विशिष्ट विवरणों के लिए ही निर्गत किया जा रहा है :-

(क) स्थल :	Plot No :2 & 3, Sector-14, HE, Sidcul Pantnagar, Rudrapur, Tehsil-Kicheha, Distt-U.S.Nagar. (In the existing unit premises).
(ख) उत्पादन :	<ol style="list-style-type: none"> 1. Antimony Concentrate (Precipitate/Salt Mix) by product-150MT/Month.(not to be exceeded by 1800MT/Year). 2. Bismuth Concentrate (Precipitate/Salt Mix) by product-30MT/Month.(not to be exceeded by 360MT/Year). 3. Copper Matter (by product)-15MT/Month. (not to be exceeded by 140MT/Year). 4. Lead Slag (by product)-40MT/Month. (not to be exceeded by 450MT/Year). 5. Oxidation slag (by product)-105MT/Month. (not to be exceeded by 1250MT/Year). 6. Refined Silver (Powder/ingots etc)-35MT/Month. (not to be exceeded by 800MT/Year). 7. Silver Anode Slime/Silver Sand (by product)-1MT/Month. (not to be exceeded by 10MT/Year). 8. Silver Nitrate (by product)-3MT/Month. (not to be exceeded by 25MT/Year). 9. VRF Zinc (by product)-55MT/Month. (not to be exceeded by 650MT/Year). 10. VRF Zinc Dross (by product)-10MT/Month. (not to be exceeded by 100MT/Year). (Including Expanded Capacity).
(ग) मुख्य कच्चे साल :	<ol style="list-style-type: none"> 1. Anode Slime/Dore Silver/HGM-400MT/Month. (not to be exceeded by 4680MT/Year). 2. Borax-2MT/Month. (not to be exceeded by 15MT/Year). 3. Calcium Fluoride-4MT/Month. (not to be exceeded by 40MT/Year). 4. Charcoal-2MT/Month. (not to be exceeded by 20MT/Year). 5. Coke-7.5MT/Month. (not to be exceeded by 87MT/Year). 6. Ethyne-1MT/Month. (not to be exceeded by 10MT/Year). 7. LDO/HSD/LNG/LHSH/PNG/LPG-375MT/Month. (not to be exceeded by 4500MT/Year). 8. Lime-1MT/Month. (not to be exceeded by 5MT/Year).

	<p>9. Nitric Acid-15MT/Month. (not to be exceeded by 150MT/Year).</p> <p>10. Salt Peter (Potassium Nitrate)-10MT/Month. (not to be exceeded by 89MT/Year).</p> <p>11. Soda Ash-22MT/Month. (not to be exceeded by 250MT/Year).</p> <p>12. Sodium Chloride-2MT/Month. (not to be exceeded by 15MT/Year).</p> <p>13. Sulphuric Acid-0.5MT/Month. (not to be exceeded by 5MT/Year).</p> <p>(Including Expanded Capacity)</p>
(व) औद्योगिक उत्पादक :	NIL
(ड.) प्रयुक्त ईंधन :	HSD for existing DG Set (500KVA) x 1Nos.

उपरोक्त विषय वस्तु में किसी भी प्रकार से परिवर्तन करने पर पुनः स्थापना हेतु सहमति पत्र प्राप्त करना आवश्यक होगा।

- उद्योग में सभी आवश्यक यन्त्र, संयंत्र, हरित पट्टिका, उत्पादक शुद्धिकरण संयंत्र तथा वायु प्रदूषण नियंत्रण की व्यवस्था की स्थापना में की गई प्रगति रिपोर्ट इस कार्यालय में प्रत्येक माह की दसवीं तारीख तक निरन्तर प्रेषित करें।
- उद्योग इकाई में परीक्षण उत्पादन तब तक प्रारम्भ नहीं करें, जब तक कि वह बोर्ड से जल अधिनियम एवं वायु अधिनियम के अन्तर्गत सहमति (CTO) प्राप्त न कर लें। जल एवं वायु सहमति (CTO) प्राप्त करने हेतु इकाई में उत्पादन प्रारम्भ करने की तिथि से कम से कम 2 माह पूर्व निर्धारित सहमति आवेदन पत्रों को उत्पादन पूर्व प्रथम आवेदन का उल्लेख करते हुए इस कार्यालय में अवश्य जमा कर दिया जाये। यदि उद्योग उपरोक्त का अनुपालन नहीं करता है तो उक्त अधिनियमों के वैधानिक प्राविधानों के अन्तर्गत उद्योग के विरुद्ध बिना किसी पूर्व सूचना के विधिक कार्यवाही की जा सकती है।
- उद्योग में परीक्षण उत्पादन से पूर्व क्षेत्रीय कार्यालय द्वारा इकाई का निरीक्षण सुनिश्चित कराया जाये।
- घरेलू उत्पादक की मात्रा 30कि०ली०/दिन से अधिक नहीं होगी। जनित घरेलू उत्पादक को सोकपिट के माध्यम से सेप्टिक टैंक में निस्तारित किया जाये।
- उद्योग द्वारा शून्य उत्पादक का अनुपालन सुनिश्चित किया जाये।
- उद्योग प्रतिवर्ष माह सितम्बर तक पर्यावरणीय दस्तावेज प्रस्तुत करना सुनिश्चित करें।
- यह क्षमता विस्तार हेतु स्थापनार्थ सहमति हेतु सहमति पत्र दिनांक 12.02.2019 से दिनांक 19.11.2022 तक की अवधि के लिए वैध होगा।
- उद्योग का संचालन इस प्रकार से किया जाये, कि परिवेशीय वायु गुणवत्ता सदैव बोर्ड मानकों के अनुरूप रहे।
- उद्योग से जनित दोस अपशिष्ट पदार्थों को इस प्रकार निस्तारित किया जाये कि जल, वायु तथा मृदा प्रदूषण की सम्भावना न रहे।
- उद्योग का संचालन इस प्रकार किया जाये, कि प्रदूषण सम्बन्धी शिकायतें प्राप्त न हों। प्रदूषण सम्बन्धी जन शिकायतें प्राप्त होने एवं पुष्टि होने पर स्थापना हेतु सहमति पत्र रिवोक (निरस्त) कर दी जायेगी। जिसका सम्पूर्ण अंतरदायित्व उद्योगी का होगा।
- उद्योग परिसर में जहाँ तदनुकूल कम से कम 3 कतारों, वाली हरित पट्टिका विकसित की जाये। हरित पट्टिका हेतु सघन तथा अवादास वृक्षों का दान किया जाये। हरित पट्टिका हेतु निर्धारित भूमि पर निर्माण कार्य न किया जाये।
- उद्योग परिसर में लकड़ाप रेनवाटर हावरेस्टिंग की व्यवस्था की जाये।
- उद्योग में परिसंकटमय एवं अन्य अपशिष्ट (प्रवाहन एवं ट्रांसबाउण्ड्री मूवमेन्ट) नियम, 2016 का अनुपालन सुनिश्चित करें तथा उत्पादन से पूर्व परिसंकटमय अपशिष्ट के निस्तारण हेतु बोर्ड से प्राधिकार प्राप्त किया जाये।
- उद्योग में स्तरवाकपरिसंकटमय रसायन विनिर्माण, भण्डारण एवं आयात नियम, 1989 का पालन किया जाये।
- उद्योग में सुरक्षा सम्बन्धी समस्त उपाय किये जायें तथा उत्पादन प्रारम्भ करने से पूर्व सक्षम विभागों से अनापत्ति प्रमाण पत्र प्राप्त किया जाये।
- उद्योग में प्रस्तावित वायु प्रदूषण नियंत्रण व्यवस्था के प्रभावी संचालन हेतु पृथक विद्युत मीटर की स्थापना सुनिश्चित की जाये। उक्त हेतु प्रतिदिन विद्युत/रसायनों की खपत का विवरण लागू डुक में दर्ज किया जाये।
- 500 के.वी.ए. क्षमता के जनरेटर सेट में इन्वर्टर स्टैंड की ऊँचाई मानकों के अनुरूप स्थापित की जाये एवं ध्वनि प्रदूषण नियंत्रण हेतु एकास्टिक इन्क्लोजर्स की स्थापना की जाये।
- उद्योग में स्थापित Noble Furnace (14Ton/Day) x1Nos, Cupel Furnace (2.5Ton/Day) x 2Nos के अतिरिक्त Junker Furnace (4Ton/Day) x1Nos, BBOC Furnace (4Ton/Day) x1Nos की स्थापना की जायेगी।

20. पूर्व में स्थापित 0.6MT/Day के 02 इंडक्शन फर्नेश की क्षमता को उच्चकृत कर प्रत्येक को 1MT/Day किया जायेगा तथा पूर्व में ही स्थापित Induction Furnace (0.6MT/Day) x 1Nos की क्षमता को उच्चकृत कर 1.3MT/Day किया जायेगा।
21. पूर्व में स्थापित सभी फर्नेश के अतिरिक्त प्रस्तावित नयी जन्कर एवं सी.बी.ओ.सी. फर्नेश पर भी उचित क्षमता के वेम फिस्टर लगाये जायेंगे तथा वायु उत्सर्जन चिमनी से कनेक्ट होगा। संयुक्त चिमनी की ऊंचाई 40मीटर होगी।
22. निमनी का डिजाइन सी.पी.सी.बी. द्वारा निर्धारित ERP-3 के अन्तर्गत अपग्रेड किया जायेगा।
23. उद्योग में बोर्ड की पूर्वानुमति के बिना वायलर/ओवन अतिरिक्त डीओजी0 सेट, फर्नेश आदि की स्थापना न की जाये।
24. यह क्षमता विस्तारीकरण हेतु स्थापनार्थ सहमति मात्र Silver Refining प्रक्रियाओं हेतु मान्य है।
25. यह क्षमता विस्तारीकरण हेतु स्थापनार्थ सहमति जल अधिनियम एवं वायु अधिनियम के अन्तर्गत निर्गत की जा रही है। उद्योग सक्षम विभागों से आवश्यक अनुमति प्राप्त करना सुनिश्चित कर ले।
26. उचित स्थल के विधिक भूमि उपयोग एवं नियमानुसार अन्य विभाग से वांछित स्वीकृति अवश्य प्राप्त कर ली जाये।

कृपया ध्यान दें कि उपर्युक्त लिखित विशिष्ट शर्तों एवं सामान्य शर्तों का प्रभावी एवं सन्तोषजनक अनुपालन न करने पर बोर्ड द्वारा निर्गत क्षमता विस्तारीकरण हेतु स्थापनार्थ सहमति (CoE) पत्र निरस्त कर दिया जायेगा। बोर्ड का अधिकार सुनिश्चित है, कि स्थापनार्थ सहमति पत्र (CTE) की शर्तों में संशोधन किया जाये अथवा निरस्त कर दिया जाये।

उपर्युक्त विशिष्ट एवं सामान्य शर्तों के सम्बन्ध में उद्योग द्वारा इस कार्यालय में दिनांक 30.03.2019 तक प्रथम अनुपालन आख्या अवश्य प्रेषित की जाये। अनुपालन आख्या नियमित प्रेषित की जाये, अन्यथा स्थापना सहमति पत्र निरस्त कर दिया जाएगा।

भवदीय,


(एस.पी. सुबुद्धि)
सदस्य सचिव

नृ. सं. 1 एवं दिनांक उपरोक्तानुसार।

प्रतिलिपि :- क्षेत्रीय अधिकारी, उत्तराखण्ड पर्यावरण संरक्षण एवं प्रदूषण नियंत्रण बोर्ड, काशीपुर को सूचनार्थ एवं उपरोक्त के अनुपालन हेतु प्रेषित।

मुख्य पर्यावरण अधिकारी



HEAD OFFICE

Uttarakhand Environment Protection and Pollution Control Board

"Gauri Devi Prayavaran Bhawan"

46B, I.T. Park, Sahastradhara Road, Dehra Dun

UEPCCB/HO/Con-H-71/2019/ 210

Date: 29.03.2019

REGD. POST

To,

M/s Hindustan Zinc Ltd.
(Pantnagar Silver Plant).
Plot No.-2 & 3, Sector-14,
IIE, Sidel, Rudrapur,
Distt- U.S.Nagar.

Consolidated Consent to Operate and Authorisation hereinafter referred to as the CCA (Consolidated Consent & authorization) (Renewal) under Section-25 of the "Water (Prevention & Control of Pollution) Act, 1974" and under Section-21 of the "Air (Prevention & Control of Pollution) Act, 1981" and Authorization under "Rule-5" of the "Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008" notified under "Environment (Protection) Act, 1986" as applicable (to be referred hereinafter as Water Act, Air Act and HW Rules respectively).

PCB ID - 10913

Inward ID - 242402

CCA (Expand)

Consent No. 39283/

Date :- 05.03.2019

CCA is hereby granted to M/s Hindustan Zinc Ltd (Pantnagar Silver Plant) located at Plot No.-02, Sector-14, IIE, Sidel, Rudrapur, Distt- U.S.Nagar subject to the provisions of the Water Act, Air Act and Hazardous and Other Wastes Rules, 2016 and the orders that may be made further and subject to following terms and conditions :-

- This CCA is granted for a period up to 31.03.2019 and valid for manufacturing of following products with Capital Investment/Net Assets Values ₹ 111.50Cr :-

S. No.	Last CCA (Renewal)		Present CCA (Expand)	
	Product	Quantity (Per Month)	Product	Quantity
1	Silver	60 MT	Antimony Concentrate (Precipitate/Salt Mix) by product-	150MT/Month (not to be exceeded by 800MT/Year).
2	Antimony Concentrate (by product)	128 MT	Bismuth Concentrate (Precipitate/Salt Mix) by product-	30MT/Month. (not to be exceeded by 360MT/Year).
3	Bismuth Concentrate (by product)	13 MT	Copper Matter (by product)	15MT/Month. (not to be exceeded by 140MT/Year).
4	Copper Matte (by product)	13 MT	Lead Slag (by product)	40MT/Month. (not to be exceeded by 450MT/Year).
5	Oxidation slag (by product)	77 MT	Oxidation slag (by product)	105MT/Month. (not to be exceeded by 1250MT/Year).
6	Silver Nitrate (by product)	2.5MT	Refined Silver (Powder/ingots etc)	85MT/Month. (not to be exceeded by 800MT/Year).

7			Silver/Anode Slime/Silver Sand (by product)	1MT/Month. (not to be exceeded by 10MT/Year).
8			Silver Nitrate (by product)	3MT/Month. (not to be exceeded by 25MT/Year).
9			VRF Zinc (by product)	55MT/Month. (not to be exceeded by 650MT/Year).
10			VRF Zinc Dross (by product)	10MT/Month. (not to be exceeded by 100MT/Year).

2. Specific Conditions under Water Act :-

(i) The daily quantity of effluent discharge (KLD) :-

	Last CCA (Renewal)	Present CCA (Renewal)
Trade Effluent	Nil	Nil
Sewage	12	30

(ii) Trade Effluent Treatment and Disposal:NA.....

(iii) Sewage Treatment and Disposal: The applicant shall provide comprehensive STP (30KLD Capacity) as is required with reference to influent quantity and quality.

In case of stoppage of functioning of STP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(iv) The treated sewage shall be reuse in gardening and the same shall be maintained continuously so as to achieve the quality of the treated effluent to the following standards. As per the direction issued by CPCB for Sewage Treatment Effluent discharge standards meet the following standards given below within five years from date of notifications.

S.No.	Parameters	Present Standard for STPs	Standard for STPs to be achieved within two years.
1.	pH	5.5 to 9.0	6.5 to 9.0
2.	BOD (mg/L)	Not more than 30	< 30
3.	TSS (mg/L)	Not more than 100	<100
4.	Fecal Coliform (MPN/100ml)	-	<1000

3. Conditions under Air Act :-

(i) The applicant shall use following fuel and install a comprehensive control system consisting of control equipment as is required with reference to generation of emissions and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards :-

S. No	Stack attached with	Stack height (Mt)	Type of Fuel	Fuel Quantity	Emission Control Equipment	Emission standards not to exceed
1	DG Set (500KVA) x 1	4.5	HSD	120Ltr/Hr	Acoustic enclosure	-
2	Noble Furnace (1.4MT)	40	HSD	200Ltr/Hr	fumes collection hood and Bag filters	PM-10 150mg/Nm ³
3	Cupla Furnace (2.5MT) x 2 Nos.	40	HSD	100Ltr/Hr	fumes collection hood and Bag filters	PM-10 150mg/Nm ³

4	Furnace 3Nos. (2x1TPD-1x1.5TPD)	40	Electricity	150KW/Hr	fumes collection hood and Bag filters.	PM - 10 150mg/Nm ³
5	Junker Furnace (4TPD)x 1Nos	40	Electricity	600KW/Hr	fumes collection hood and Bag filters.	PM - 10 150mg/Nm ³
6	BBOC Furnace (1TPD)x 1Nos	40	HSD	100Ltr/Hr	fumes collection hood and Bag filters.	PM - 10 150mg/Nm ³

In case of stoppage of functioning of air pollution control equipment, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

- (ii) Unit has to provide stack of 30mt height gas exist NOx scrubber.
- (iii) Noise from the D.G. Set and other source(s) should be controlled by providing an acoustic enclosure as is required for meeting the ambient noise standards for night and day time as prescribed for respective areas/zones (Industrial, Commercial, Residential, Silence) which are as follows:-

Standards for Noise level in db(A) Leq	Industrial Area		Commercial Area		Residential Area		Silence Zone	
	Day time	Night time	Day time	Night time	Day time	Night time	Day time	Night time
	75	70	65	55	55	45	50	40

Day time : from 6.00 a.m. to 10.00 p.m., Night time: from 10.00 p.m. to 6.00 a.m.

4. Conditions under Hazardous & Other Wastes Rules, 2016 :-

- (i) Number of authorization and date of issue : -----
- (ii) The Factory Manager of M/s Hindustan Zinc Ltd (Pantnagar Silver Plant), U.S.Nagar is hereby granted an authorization to operate a facility for collection, storage and transfer of Hazardous wastes,
- (iii) The authorization is granted to operate a facility for generation, collection and storage of hazardous wastes within factory premises for following category of wastes :-

S.No.	Category (Schedule-I & Schedule-II)	Quantity of Waste for which authorization is being issued (MTA)	Mode of Disposal
1	Schedule I - 5.1	5.0	Recyclable
2	Schedule I - 5.2	5.0	Recyclable
3	Schedule I - 7.2	5.0	Recyclable
4	Schedule I - 7.4	2.0	Recyclable

- (iv) The authorization shall be in force for a period up to 31.03.2019.
- (v) The authorization is subject to the conditions stated below and such conditions as may be specified in the rules for the time being in force under Environment (Protection) Act, 1986.

Terms and conditions of authorization:

- (i) The authorization shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- (ii) The authorization and its renewal shall be produced for inspection at the request of an officer authorized by the SPCB/PCC.
- (iii) The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes without obtaining prior permission of the SPCB/PCC.
- (iv) Any unauthorized changes in personnel, equipment as working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.

- (v) It is the duty of the authorized person to take prior permission of the SPCB/PCC to close down the facility.
- (vi) An application for the renewal of an authorization shall be made as laid down under these rules.
- (vii) The unit shall comply with any other conditions specified in the guidelines issued by the MoEF or CPCB/SPCB from time to time.
- 3. This CCA is valid for pyro metallurgical refining and hydrometallurgical refining processes only.
- 4. Compulsory documents to be submitted by the Industry/Unit :-
 - (i) Annual return in Form-4 and Waste Disposal Manifest in Form-10 under Hazardous & Other Wastes Rules, 2016 and Third Party Audit Report.
 - (ii) Environment Statement in Form-V of Environment (Protection) Rules, 1986.
 - (iii) Quarterly compliance report of the CCA, photograph of ETP/APCs/Waste Storage Area.
- 5. Unit has to apply for renewal of CCA well in advance of 60 days of expiry of this CCA.
- 6. Competent Authority reserves the right to change/modify/add any time any condition of this CCA.
- 7. Unit has to comply with the other general conditions as annexed herewith. Non-compliance of any provision of this CCA and provisions of the Water Act, Air Act and Hazardous & Other Wastes Rules, 2016 will result in legal action under the aforesaid Acts and Rules.


Member Secretary

Copy to: Regional Officer, Uttarakhand Environment Protection and Pollution Control Board, Kashipur, Distt- U.S.Nagar for information and compliance of the same.


Chief Environment Officer

Annexure

Specific Conditions:

1. The applicant shall provide ISI mark water meter to each water supply source and shall regularly submit returns of water consumption in the prescribed form and pay the cess as specified under Section-3 of Cess Act.
2. The applicant shall submit audited balance sheet of the unit at the end of each financial year so that fee levied by the applicant could be assessed.
3. The applicant shall provide ports in the chimney/stack and facilities such as ladder, platform etc. as per requirement for monitoring the air emissions and the same shall be open for inspection and use at all times by the Board's staff. The chimney/stack attached to various sources of emission shall be designated by numbers such as S-1, S-2 etc. and these shall be painted/ displayed to facilitate identification.
4. The industry shall ensure interlocking of air pollution control devices and production processes.
5. A solid waste generated from the industry has to be disposed in manner so that contamination of surface water bodies/ground water/soil etc. does not take place.
6. The industry shall take adequate measures to control of noise from its own source so as to comply with the standards as may be applicable.
7. The applicant shall develop three rows of green belt on the premises with plant species as suggested by the Central Pollution Control Board.
8. The industry shall strictly adhere with the specific and general conditions issued with CCA order. Any violation of stipulated conditions may attract legal action under the provisions of Water Act, Air Act and Environment (Protection) Act and Rules made thereunder.

9. The industry shall ensure all safety measures and shall undertake periodical assessment by the competent authority.
10. Unit shall ensure manifest system in Form-10 of Hazardous & Other Wastes Rules, 2016 while disposing hazardous waste.
11. Hazardous waste should not be stored beyond a period of 90 days.
12. The industry situated nearby the River Ganga and its tributaries shall ensure the treatment facilities and disposal arrangement in such a way so that no waste water is discharged in water stream or water bodies.
13. The industry shall comply all the conditions mentioned in Environment Clearance No. EC-10-9(10)/2018 dated 08.02.2019 obtained from SEIAA, Dehradun.
14. The unit shall strictly comply with the provisions of Water, Air & E. (P) Acts and Rules/Notifications made thereunder.

General Conditions:-

1. The applicant shall get analyse the samples of effluent/emission/hazardous wastes at least once in a three month from the laboratory recognized by the MoEF and shall report to the UEPPCB.
2. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gases emission or sewage waste from the unit.
3. Treated waste water and domestic waste water shall be disposed jointly at one disposal point. The applicant shall provide discharge measurement equipment at final disposal point.
4. The applicant shall strictly comply with conditions of this CCA and submit compliance report of stipulated conditions within 30 days of receipt of this CCA. If, at any point of time, it is found that the industry is not complying with stipulated conditions or any further direction/instruction issued by the Board, legal action shall be initiated against the applicant.
5. The applicant shall maintain good house keeping. All valves/pipes/sewer/drains etc. must be leak-proof.
6. The industry shall provide uninterrupted entry to the STP's/ETP's inlet and outlet points, Air Pollution Control equipment and stack for smooth sampling/monitoring of efficiency of pollution control measures.
7. The industry shall provide "Inspection Book", at the time of inspection to the Board's officials.
8. Whenever due to any accident or other unforeseen act or event, such emission occurs or is apprehended to occur in excess of standards laid down, such information shall be reported to the Board's offices and all other concerned offices. In case of failure of pollution control equipment, the production process connected to it shall be stopped with immediate effect.
9. The industry shall operate in a manner so that all emissions be emitted through designated chimney/stack only.
10. In case of any damage to the agriculture productivity, human habitation etc. by the operation of industry, it shall be imperative to stop production in the industry with immediate effect and such information shall be reported to Board's offices. The industry shall be liable to pay compensation also in such cases as decided by the Competent Authority.
11. The applicant shall apply before the 60 days of expiry of CCA or any change in production types/ production capacity/manufacturing process/capacity enhancement etc. or any change in effluent discharge point or emission point.
12. The Board reserves the right to revoke/add/modify any stipulated condition issued along with CCA, as may be necessary.
13. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous waste without obtaining prior permission of the Board.
14. Any unauthorized change in personnel, equipment as working condition as mentioned in the application by the person authorized shall constitute a breach of his authorization.
15. It is the duty of the authorized person to take prior permission of the Board to close down the facility.
16. The authorization is valid for temporary storage of Hazardous Waste within premises only.
17. The authorized agency shall ensure that on-line data with regard to quantity and nature of hazardous chemicals being used in the plant as well as air emission and waste generated within premises is displayed on Display Board of size 6x4 feet out side the main factory gate within premises.
18. It is duty of the authorized person to take prior permission of this Board to close and cleanup the facility for treatment, storage and disposal of hazardous waste.
19. The applicant shall maintain record of hazardous waste in Form-3 and shall submit annual return in Form-4 on or before the 30th day of June following to the financial year to which that return relates.

20. In no case any hazardous waste shall be disposed off on land, in any drain, or into any water stream. All spillage must also be safely collected and stored.
21. Before the hazardous waste is stored or dumped in the facility, applicant must conduct a detailed physical and chemical analysis of hazardous waste sample and report to the Board.
22. Dried hazardous sludge from the process in the plant shall be stored in double lined HDPE pit constructed with R.C.C. or such material which does not react with the waste contained in it.
23. The storage area should be fenced properly and Sign/Notice Board indicating 'Danger' and 'Hazardous' shall be displayed at appropriate position both in Hindi and English.
24. The industry shall store non-ferrous metal waste, used oil/spent oil waste in sealed drums placed on impervious floor under covered shed. Hazardous waste if required shall be sold only to Registered Recyclers/Re-processors.
25. In case of any transportation of hazardous waste, the details in Form-10 of the Hazardous & Other Wastes Rules, 2016 shall be submitted to the Board.


Chief Environment Officer

**EKO PRO ENGINEERS PVT. LTD.**

Environmental Consultants and Analytical Laboratory

(An ISO 9001:2008 Certified Company)

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA.
 Contact No. : 9711159210, 9711159427 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact

Group : A-9711159337

TEST REPORT**Soil Sample Analysis**

Test Report No. : EK0/EV-S0/102/201018

Issue Date 26/10/2018

Issued To

HINDUSTAN ZINC LIMITED
 PLOT NO. - 2
 SECTOR - 14, IIE, SIDCUL
 PANTNAGAR, RUDRAPUR
 (UTTRAKHAND)

Sample Description Soil Sample
 Sample Drawn on 16/10/2018
 Sample Drawn by EPEPL(Mr. Sudesh Dubey)
 Sample Received on 20/10/2018
 Sampling Location From Front of Contractor Canteen
 Sampling Plan & Procedure SOP-S/50
 Sample Quantity 500 gm
 Environmental Condition Normal
 Analysis Duration 20/10/2018 To 25/10/2018
 Remark (if any) NA

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH (1 : 2.5 Suspension)	IS : 2720 (P-26)	7.46	-
2	Conductivity (1:5 Susp.)	IS : 2720 (P-21)	523.0	µs/cm
3	Bulk Density	SOP-S/92/12	1.54	gm/cc
4	Chloride (as Cl-)	Eko/Chem/SOP/S-01	168.4	mg/kg
5	Sodium Available (as Na)	Eko/Chem/SOP/S-04	276.9	mg/kg
6	Potassium Available (as K)	Eko/Chem/SOP/S-02	292.5	mg/kg
7	Total Kjeldahl Nitrogen	Eko/Chem/SOP/S-07	1572.8	mg/kg
8	Phosphorus (as P)	SOP - S/96/13	84.6	mg/kg
9	Zinc (as Zn)	USEPA - SW 846 7130	27.2	mg/kg
10	Lead (as Pb)	USEPA - SW 846 7130	<1.0	mg/kg
11	Cadmium (as Cd)	USEPA - SW 846 7130	<1.0	mg/kg
12	Copper (as Cu)	USEPA - SW 846 7130	<0.5	mg/kg
13	Arsenic (as As)	USEPA - SW 846 7130	<1.0	mg/kg
14	Nickel (as Ni)	USEPA - SW 846 7130	<1.0	mg/kg
15	Organic Carbon	IS : 2720 (P-22)	0.58	% by mass
16	Antimony (as Sb)	USEPA-SW-846	<1.0	mg/kg
17	Bismuth (as Bi)	USEPA-SW-846	<1.0	mg/kg
18	Salinity	SOP-S/92/37	336.0	

For EKO PRO ENGINEERS PVT. LTD. GHAZIABAD



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Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA
Contact No. : 9711159210, 9711159427 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact

Group : A-9711159337

TEST REPORT

Soil Sample Analysis

Test Report No. : EKO/EV-S0/103/201018

Issue Date 26/10/2018

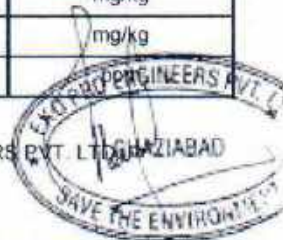
Issued To : HINDUSTAN ZINC LIMITED
PLOT NO. - 2
SECTOR - 14, IIE, SIDCUL
PANTNAGAR, RUDRAPUR
(UTTRAKHAND)

Sample Description : Soil Sample
Sample Drawn on : 16/10/2018
Sample Drawn by : EPEPL(Mr. Sudesh Dubey)
Sample Received on : 20/10/2018
Sampling Location : From Back Side of Training Centre
Sampling Plan & Procedure : SOP-S/50
Sample Quantity : 500 gm
Environmental Condition : Normal
Analysis Duration : 20/10/2018 To 25/10/2018
Remark (if any) : NA

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH (1 : 2.5 Suspension)	IS : 2720 (P-26)	7.38	-
2	Conductivity (1:5 Susp.)	IS : 2720 (P-21)	546.0	µs/cm
3	Bulk Density	SOP-S/92/12	1.48	gm/cc
4	Chloride (as Cl-)	Eko/Chem/SOP/S-01	176.2	mg/kg
5	Sodium Available (as Na)	Eko/Chem/SOP/S-04	254.6	mg/kg
6	Potassium Available (as K)	Eko/Chem/SOP/S-02	281.3	mg/kg
7	Total Kjeldahl Nitrogen	Eko/Chem/SOP/S-07	1584.6	mg/kg
8	Phosphorus (as P)	SOP - S/96/13	80.2	mg/kg
9	Zinc (as Zn)	USEPA - SW 846 7130	24.8	mg/kg
10	Lead (as Pb)	USEPA - SW 846 7130	<1.0	mg/kg
11	Cadmium (as Cd)	USEPA - SW 846 7130	<1.0	mg/kg
12	Copper (as Cu)	USEPA - SW 846 7130	<0.5	mg/kg
13	Arsenic (as As)	USEPA - SW 846 7130	<1.0	mg/kg
14	Nickel (as Ni)	USEPA - SW 846 7130	<1.0	mg/kg
15	Organic Carbon	IS : 2720 (P-22)	0.65	% by mass
16	Antimony (as Sb)	USEPA-SW-846	<1.0	mg/kg
17	Bismuth (as Bi)	USEPA-SW-846	<1.0	mg/kg
18	Salinity	SOP-S/92/37	304.0	

For EKO PRO ENGINEERS PVT. LTD. GHAZIABAD



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Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA.
Contact No. : 9711159210, 9711159427 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact

Group : A-9711159337

TEST REPORT

Soil Sample Analysis

Test Report No. : EK0/EV-S0/104/201018

Issue Date 26/10/2018

Issued To

HINDUSTAN ZINC LIMITED
PLOT NO. - 2
SECTOR - 14, IIE, SIDCUL
PANTNAGAR, RUDRAPUR
(UTTRAKHAND)

Sample Description Soil Sample
Sample Drawn on 16/10/2018
Sample Drawn by EPEPL(Mr. Sudesh Dubey)
Sample Received on 20/10/2018
Sampling Location From Plot No-1
Sampling Plan & Procedure SOP-S/50
Sample Quantity 500 gm
Environmental Condition Normal
Analysis Duration 20/10/2018 To 25/10/2018
Remark (if any) NA

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units
1	pH (1 : 2.5 Suspension)	IS : 2720 (P-26)	7.29	-
2	Conductivity (1:5 Susp.)	IS : 2720 (P-21)	496.0	µs/cm
3	Bulk Density	SOP-S/92/12	1.58	gm/cc
4	Chloride (as Cl-)	Eko/Chem/SOP/S-01	140.8	mg/kg
5	Sodium Available (as Na)	Eko/Chem/SOP/S-04	254.6	mg/kg
6	Potassium Available (as K)	Eko/Chem/SOP/S-02	298.3	mg/kg
7	Total Kjeldahl Nitrogen	Eko/Chem/SOP/S-07	1484.6	mg/kg
8	Phosphours (as P)	SOP-S/96/13	77.2	mg/kg
9	Zinc (as Zn)	USEPA - SW 846 7130	25.9	mg/kg
10	Lead (as Pb)	USEPA - SW 846 7130	<1.0	mg/kg
11	Cadmium (as Cd)	USEPA - SW 846 7130	<1.0	mg/kg
12	Copper (as Cu)	USEPA - SW 846 7130	<0.5	mg/kg
13	Arsenic (as As)	USEPA - SW 846 7130	<1.0	mg/kg
14	Nickel (as Ni)	USEPA - SW 846 7130	<1.0	mg/kg
15	Organic Carbon	IS : 2720 (P-22)	0.53	% by mass
16	Antimony (as Sb)	USEPA-SW-846	<1.0	mg/kg
17	Bismuth (as Bi)	USEPA-SW-846	<1.0	mg/kg
18	Salinity	SOP-S/92/37	342.0	

For EKO PRO ENGINEERS PVT. LTD. GHAZIABAD



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Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA.
 Contact No. : 9711153210, 9711159427 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact

Group : A-9711159337

ULR : TC506319000000279P

TEST REPORT**Water Sample Analysis**

Test Report No. : EKO/EV-WA/020/311218

Issue Date 08/01/2019

Issued To:

HINDUSTAN ZINC LIMITED
 PLOT NO. 2
 SECTOR-14, IIE, SIDCUL, PANTNAGAR
 RUDRAPUR
 UTTARAKHAND

Sample Description Ground Water
 Sample Drawn on 29/12/2018
 Sample Drawn by EPEPL (Mr. Sudesh Dubey)
 Sample Received on 31/12/2018
 Sampling Location From Borewell
 Sampling Plan & Procedure SOP-W/66
 Sample Quantity 5.0 Litre
 Environmental Condition Normal
 Analysis Duration 31/12/2018 To 07/01/2019
 Remark (if any) NA

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	IS: 10500-2012 (Limits)*	
					Acceptable	Permissible
1	Colour	IS : 3025 (P-4)	<5.0	Hazen	5.0	15.0
2	Odour	IS : 3025 (P-5)	Agreeable	-	Agreeable	Agreeable
3	Taste	IS : 3025 (P-7)	Agreeable	-	Agreeable	Agreeable
4	Turbidity	IS : 3025 (P-10)	<1.0	NTU	1.0	5.0
5	pH	IS : 3025 (P-11)	7.61	-	6.5-8.5	No relaxation
6	Total Hardness (as CaCO ₃)	IS : 3025 (P-21)	181.0	mg/L	200.0	600.0
7	Calcium (as Ca)	IS : 3025 (P-40)	37.7	mg/L	75.0	200.0
8	Iron (as Fe)	IS : 3025 (P-53)	<0.005	mg/L	1.0	No relaxation
9	Chloride (as Cl)	IS : 3025 (P-32)	21.5	mg/L	250.0	1000.0
10	Residual Free Chlorine	IS : 3025 (P-26)	<0.2	mg/L	0.2	1.0
11	Chloramines (as Cl ₂)	IS : 3025 (P-26)	<0.2	mg/L	4.0	No relaxation
12	Fluoride (as F)	IS : 3025 (P-60)	<1.0	mg/L	1.0	1.5
13	Total Dissolved Solids	IS : 3025 (P-16)	315.0	mg/L	500.0	2000.0
14	Magnesium (as Mg)	IS : 3025 (P-46)	21.1	mg/L	30.0	100.0
15	Copper (as Cu)	IS : 3025 (P-42)	<0.005	mg/L	0.05	1.5

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Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA.
Contact No. : 9711159210, 9711159427 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

ULR : TC506319000000279P

For Any Query Contact
Group : A-9711159337

Test Report No. : EKO/EV-WA/020/311218

Issue Date 08/01/2019

S.No.	PARAMETER	Test Methods	Results	Units	IS: 10500-2012 (Limits)*	
					Acceptable	Permissible
16	Manganese (as Mn)	IS : 3025 (P-59)	<0.005	mg/L	0.1	0.3
17	Sulphate (as SO ₄)	IS : 3025 (P-24)	36.2	mg/L	200.0	400.0
18	Nitrate (as NO ₃)	IS : 3025 (P-34)	1.14	mg/L	45.0	No relaxation
19	Phenolic Compounds (as C ₆ H ₅ OH)	IS : 3025 (P-43)	<0.001	mg/L	0.001	0.002
20	Mercury (as Hg)	IS : 3025 (P-48)	<0.001	mg/L	0.001	No relaxation
21	Selenium (as Se)	IS : 3025 (P-56)	<0.005	mg/L	0.01	No relaxation
22	Arsenic (as As)	IS : 3025 (P-37)	<0.005	mg/L	0.01	No relaxation
23	Cyanide (as CN)	APHA 4500 CN-K	Absent	mg/L	0.05	No relaxation
24	Lead (as Pb)	IS : 3025 (P-47)	<0.005	mg/L	0.01	No relaxation
25	Zinc (as Zn)	IS : 3025 (P-49)	<0.05	mg/L	5.0	15.0
26	Barium (as Ba)	EKO/CHEM/SOP-ICPMS / W-01	<0.01	mg/L	0.7	No relaxation
27	Mineral Oil	IS 3025 (P-39)	Absent	mg/L	0.5	No relaxation
28	Ammonia (as Total Ammonia-N)	IS : 3025 (P-34)	<0.1	mg/L	0.5	No relaxation
29	Silver (as Ag)	IS : 3025 (P-24)	<0.005	mg/L	0.1	No relaxation
30	Total Chromium (as Cr)	IS : 3025 (P-52)	<0.005	mg/L	0.05	No relaxation
31	Total Alkalinity (as CaCO ₃)	IS : 3025 (P-23)	192.0	mg/L	200.0	600.0
32	Aluminium (as Al)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.03	0.2
33	Boron (as B)	IS : 3025 (P-57)	<0.25	mg/L	0.5	1.0
34	Cadmium (as Cd)	IS : 3025 (P-41)	<0.001	mg/L	0.003	No relaxation
35	Anionic Detergents (as MBAS)	IS : 13428 : 2005	<0.05	mg/L	0.2	1.0
36	Sulphide (as H ₂ S)	IS 3025 (Part 29)	<0.05	mg/L	0.05	No relaxation
37	Molybdenum (as Mo)	EKO/CHEM/SOP-ICPMS /W-01	<0.005	mg/L	0.07	No relaxation
38	Nickel (as Ni)	IS : 3025 (P-54)	<0.005	mg/L	0.02	No relaxation
39	Polychlorinated biphenyls (PCB)	EKO/CHEM/SOP-GCMSMS/ W-02	ND (LOQ-0.01)	mg/L	0.0005	No relaxation
40	Polycyclic aromatic hydrocarbons (PAH)	EKO/CHEM/SOP-GCMSMS/ W-02	ND (LOQ-0.01)	mg/L	0.0001	No relaxation
41	Alachlor	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	20.0	No relaxation

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Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA.
 Contact No. : 9711159210, 9711159427 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

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ULR : TC506319000000279P

Test Report No. : EKO/EV-WA/020/311218

Issue Date 08/01/2019

S.No.	PARAMETER	Test Methods	Results	Units	IS: 10500-2012 (Limits)*	
					Acceptable	Permissible
42	Atrazine	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	2.0	No relaxation
43	Aldrin/Dieldrin	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	0.03	No relaxation
44	Alpha HCH	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	0.01	No relaxation
45	Beta HCH	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	0.04	No relaxation
46	Butachlor	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	125.0	No relaxation
47	Chlorpyrifos	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	30.0	No relaxation
48	Delta HCH	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	0.04	No relaxation
49	DDT (o,p and p,p-Isomers of DDT, DDE and DDD)	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	1.0	No relaxation
50	Endosulfan (Alpha, Beta & Sulphate)	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	0.4	No relaxation
51	Ethion	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	3.0	No relaxation
52	Gamma-HCH (Lindane)	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	2.0	No relaxation
53	Malathion	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	190.0	No relaxation
54	Methyl parathion	EKO/CHEM/SOP-GCMSMS/ W-01	ND (LOQ-0.01)	µg/l	0.3	No relaxation
55	2,4 Dichlorophenoxyacetic acid	EKO/CHEM/SOP-LCMS-MS/ W-01	ND (LOQ-0.01)	µg/l	30.0	No relaxation
56	Isoproturon	EKO/CHEM/SOP-LCMS-MS/ W-01	ND (LOQ-0.01)	µg/l	9.0	No relaxation
57	Monocrotophos	EKO/CHEM/SOP-LCMS/ 01	ND (LOQ-0.01)	µg/l	1.0	No relaxation
58	Phorate	EKO/CHEM/SOP-LCMS/ 01	ND (LOQ-0.01)	µg/l	2.0	No relaxation
59	Bromoform	APHA 8232	<0.05	mg/L	0.1	No relaxation
60	Dibromochloromethane	APHA 8232	<0.05	mg/L	0.1	No relaxation
61	Bromodichloromethane	APHA 8232	<0.05	mg/L	0.05	No relaxation

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Page No. 2/4

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Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009, UP, INDIA.
 Contact No. : 9711159210, 9711159427 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

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Group : A-9711159337

Test Report No. : EK0/EV-WA/020/311218

Issue Date 08/01/2019

S.No.	PARAMETER	Test Methods	Results	Units	IS: 10500-2012 (Limits)*	
					Acceptable	Permissible
62	Chloroform	APHA 6232	<0.05	mg/L	0.2	No relaxation
63	Total Coliform	IS : 1622 : 1981	Absent	MPN/100mL	Shall not be detectable in any 100 ml sample	-
64	E.coli	IS : 1622 : 1981	Absent	Per 100 mL	Shall not be detectable in any 100 ml sample	-

* For details pl see IS : 10500-2012.

Notes :

End of Report

1. The results given above are related to the tested sample, as received & mentioned parameters.
The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without written permission of the Laboratory.
3. This test report will not be used for any publicity/legal purpose.
4. This test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.
Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
5. Responsibility of the Laboratory is limited to the invoiced amount only.

For EKO PRO ENGINEERS PVT. LTD.

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Page No. 4/4

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Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
 Contact No. : 9711159215, 9711159427, SMS/WhatsApp No. : 9711103422, E-mail : ekoproindia@gmail.com, website : www.ekopro.in

For Any Query Contact

Group : A-9711159337

TEST REPORT**Stack Emission Analysis**

Test Report No. : EK0/EV-SE/108/250219

Issue Date 02/03/2019

Issued To

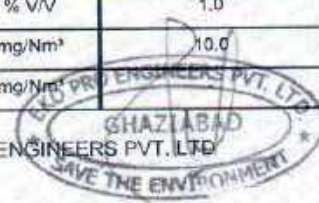
HINDUSTAN ZINC LIMITED
 PLOT NO. - 2
 SECTOR - 14, IIE, SIDCUL
 PANTNAGAR, RUDRAPUR
 (UTTARAKHAND)

Sample Description	Stack Emission
Sample Drawn on	23/02/2019
Sample Drawn by	EPEPL (Mr. Sudesh Dubey)
Sample Received on	25/02/2019
Time of Sampling (minutes)	30.0
Sampling Location	NA
Sampling Plan & Procedure	SOP-SE/09
Analysis Duration	25/02/2019 To 01/03/2019
Source of Emission	Stack Attached To Furnace
Capacity	20.8 MT/Day Total
Operating Load	2.5 MT
Normal Operation Schedule	Batch Wise (3 Shift)
Type of Stack	Metallic With Refractory Lining
Diameter of Stack (meter)	1.6 at top
Height of Stack from Ground Level (meter)	40.0
Height of Stack from Roof Level (meter)	21.8
Height of Sampling Location (meter)	23.3
Type of Fuel Used	HSD
Fuel Consumed per Hour	200.0 lph.
Ambient Temperature (°C)	18.0
Stack Temperature (°C)	112.0
Average Velocity of Fuel Emission (m/sec)	5.4
Average Flow Rate (lpm)	18.0
Control Measures (if any)	**
Remark (if any)	Sampling Ins. Used-Stack Monitoring Kit APM-610

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA*
1	Particulate Matter (as PM)	IS : 11255 (P-1)	24.9	mg/Nm ³	150.0
2	Sulphur Dioxide (as SO ₂)	IS : 11255 (P-2)	10.5	mg/Nm ³	-
3	Oxides of Nitrogen (as NO _x)	IS : 11255 (P-7)	60.7	mg/Nm ³	-
4	Carbon monoxide (as CO)	IS : 13270	<0.2	% V/V	1.0
5	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm ³	10.0
6	Total Hydrocarbon (as HC)	IS : 5182 (Part 17)	ND	mg/Nm ³	-

For EKO PRO ENGINEERS PVT. LTD.





Contact : +91 - 9810243870

EKO PRO ENGINEERS PVT. LTD.Environmental Consultants and Analytical Laboratory
(An ISO 9001:2015 Certified Company)Office & Laboratory : 52/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No. : 9711159270, 9711159427, SMS/Whatsapp No. : 9711159422 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.inFor Any Query Contact
Group : A-9711159337**TEST REPORT**
Stack Emission Analysis

Test Report No. : EK0/EV-SE/107/250219

Issue Date 02/03/2019

Issued To

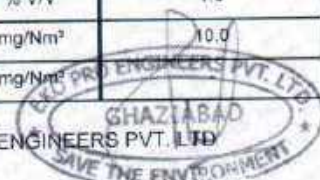
HINDUSTAN ZINC LIMITED
PLOT NO. - 2
SECTOR - 14, IIE, SIDCUL
PANTNAGAR, RUDRAPUR
(UTTRAKHAND)

Sample Description	Stack Emission
Sample Drawn on	23/02/2019
Sample Drawn by	EPEPL(Mr. Sudesh Dubey)
Sample Received on	25/02/2019
Time of Sampling (minutes)	30.0
Sampling Location	NA
Sampling Plan & Procedure	SOP-SE/09
Analysis Duration	25/02/2019 To 01/03/2019
Source of Emission	Stack Attached To Nox Scrubber
Capacity	-
Operating Load	Normal
Normal Operation Schedule	Batch Wise (3 Shift)
Type of Stack	Metalic & PP Lining
Diameter of Stack (meter)	1.1 at top
Height of Stack from Ground Level (meter)	20.0
Height of Stack from Roof Level (meter)	1.8
Height of Sampling Location (meter)	17.3
Type of Fuel Used	-
Fuel Consumed per Hour	-
Ambient Temperature (°C)	18.0
Stack Temperature (°C)	88.0
Average Velocity of Fuel Emission (m/sec)	6.4
Average Flow Rate (lpm)	22.6
Control Measures (if any)	Nox Scrubber
Remark (if any)	Sampling Ins. Used-Stack Monitoring Kit APM-610

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA*
1	Particulate Matter (as PM)	IS : 11255 (P-1)	23.6	mg/Nm ³	150.0
2	Sulphur Dioxide (as SO ₂)	IS : 11255 (P-2)	10.7	mg/Nm ³	-
3	Oxides of Nitrogen (as NO _x)	IS : 11255 (P-7)	49.0	mg/Nm ³	-
4	Carbon monoxide (as CO)	IS : 13270	<0.2	% V/V	1.0
5	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm ³	10.0
6	Total Hydrocarbon (as HC)	IS : 5182 (Part 17)	ND	mg/Nm ³	-

For EKO PRO ENGINEERS PVT. LTD.





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Contact No. 9711159210, 9711159427, SMS/Whatsapp No. 9711153422, E-mail: email@ekopro.n, ekoproengineers@gmail.com, website: www.ekopro.n

For Any Query Contact
Group : A-9711159337

TEST REPORT

Workzone Air Quality Monitoring

Test Report No. :	EK0/EV-WZ/104/250219	Issue Date	02/03/2019
Issued To	HINDUSTAN ZINC LIMITED PLOT NO. - 2 SECTOR - 14, IIE, SIDCUL PANTNAGAR, RUDRAPUR (UTTRAKHAND)		
Sample Description	Workzone Air		
Sample Drawn on	23/02/2019		
Sample Drawn by	EPEPL(Mr. Sudesh Dubey)		
Sample Received on	25/02/2019		
Sampling Location	Furnace Area in Silver Plant		
Sampling Plan & Procedure	SOP-AAQ/15		
Analysis Duration	25/02/2019 To 01/03/2019		
Sampling Time	08 Hrs.		
Ambient Temperature (deg °C)	22.0		
Average Flow Rate of SPM (m ³ /min)	1.8		
Average Flow Rate of Gases (lpm)	1.8		
Weather Conditions	Clear		
Remark (if any)	NA		

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	Permissible Limit
1	SPM	IS:5182 (P-4)	0.408	mg/m ³	15.0 as per OSHA
2	Sulphur Dioxide (as SO ₂)	IS:5182 (P-2)	0.009	mg/m ³	5.0 as per Factories Act, 1948
3	Nitrogen Dioxide (as NO ₂)	IS:5182 (P-6)	0.022	mg/m ³	6.0 as per Factories Act, 1948
4	Lead (as Pb)	IS:5182 (P-22)	<0.1	mg/m ³	0.15 as per Factories Act, 1948
5	Zinc (as Zn)	SOP-S/99/51	<0.1	mg/m ³	

Notes :

End of Report

- The results given above are related to the tested sample, as received & mentioned parameters.
The customer asked for the above tests only.
- This test report will not be generated again, either wholly or in part, without written permission of the Laboratory.
- This test report will not be use for any publicity/legal purpose.
- This test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.
- Responsibility of the Laboratory is limited to the invoiced amount only.

For EKO PRO ENGINEERS PVT. LTD.



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Contact No. : 9711159337, 9711155427, SMS/Whatsapp No. : 9711163422 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.inFor Any Query Contact
Group : A-9711159337**TEST REPORT****Workzone Air Quality Monitoring**

Test Report No. :	EK0/EV-WZ/105/250219	Issue Date	02/03/2019
Issued To	HINDUSTAN ZINC LIMITED PLOT NO. - 2 SECTOR - 14, IIE, SIDCUL PANTNAGAR, RUDRAPUR (UTTRAKHAND)		
Sample Description	Workzone Air		
Sample Drawn on	23/02/2019		
Sample Drawn by	EPEPL(Mr. Sudesh Dubey)		
Sample Received on	25/02/2019		
Sampling Location	Bag Filter Area in Silver Plant		
Sampling Plan & Procedure	SOP-AAQ/15		
Analysis Duration	25/02/2019 To 01/03/2019		
Sampling Time	08 Hrs.		
Ambient Temperature (deg °C)	22.0		
Average Flow Rate of SPM (m ³ /min)	1.7		
Average Flow Rate of Gases (lpm.)	1.7		
Weather Conditions	Clear		
Remark (if any)	NA		

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	Permissible Limit
1	SPM	IS:5182 (P-4)	0.497	mg/m ³	15.0 as per OSHA
2	Sulphur Dioxide (as SO ₂)	IS:5182 (P-2)	0.008	mg/m ³	5.0 as per Factories Act, 1948
3	Nitrogen Dioxide (as NO ₂)	IS:5182 (P-6)	0.019	mg/m ³	6.0 as per Factories Act, 1948
4	Lead (as Pb)	IS:5182 (P-22)	<0.1	mg/m ³	0.15 as per Factories Act, 1948
5	Zinc (as Zn)	SOP-S/99/51	<0.1	mg/m ³	-

Notes :

End of Report

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Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 006 (Delhi-NCR) INDIA
Contact No. : 9711158210, 9711158427, SMS/Whatsapp No. : 9711163422, E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact
Group : A-9711159337

TEST REPORT

Workzone Air Quality Monitoring

Test Report No. :	EK0/EV-WZ/108/250219	Issue Date	02/03/2019
Issued To	HINDUSTAN ZINC LIMITED PLOT NO. - 2 SECTOR - 14, IIE, SIDCUL PANTNAGAR, RUDRAPUR (UTTRAKHAND)		
Sample Description	Workzone Air		
Sample Drawn on	23/02/2019		
Sample Drawn by	EPEPL(Mr. Sudesh Dubey)		
Sample Received on	25/02/2019		
Sampling Location	Silver Plant Hydro Top Floor		
Sampling Plan & Procedure	SOP-AAQ/15		
Analysis Duration	25/02/2019 To 01/03/2019		
Sampling Time	08 Hrs.		
Ambient Temperature (deg °C)	22.0		
Average Flow Rate of SPM (m ³ /min)	1.8		
Average Flow Rate of Gases (lpm.)	1.8		
Weather Conditions	Clear		
Remark (if any)	NA		

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	Permissible Limit
1	SPM	IS:5182 (P-4)	0.481	mg/m ³	15.0 as per OSHA
2	Sulphur Dioxide (as SO ₂)	IS 5182 (P-2)	0.006	mg/m ³	5.0 as per Factories Act, 1948
3	Nitrogen Dioxide (as NO ₂)	IS:5182 (P-6)	0.023	mg/m ³	6.0 as per Factories Act, 1948
4	Lead (as Pb)	IS:5182 (P-22)	<0.1	mg/m ³	0.15 as per Factories Act, 1948
5	Zinc (as Zn)	SOP-S/99/51	<0.1	mg/m ³	

Notes :

End of Report

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Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA

Contact No. : 9711159290, 9711159427, SMS/WhatsApp No. : 9711159422, E-mail : enq@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact

Group : A-9711159337

TEST REPORT**Ambient Air Quality Monitoring**

Test Report No. : EKO/EA-AA/106/250219

Issue Date 01/03/2019

Issued To

HINDUSTAN ZINC LIMITED
PLOT NO. - 2
SECTOR - 14, IIE, SIDCUL
PANTNAGAR, RUDRAPUR
(UTTRAKHAND)

Sample Description Ambient Air
Sample Drawn on 20/02/2019 To 21/02/2019
Sample Drawn by EPEPL(Mr. Sudesh Dubey)
Sample Received on 25/02/2019
Sampling Location Back Side of DG Area
Sampling Plan & Procedure SOP-AAQ/15
Analysis Duration 25/02/2019 To 28/02/2019
Sampling Time 24.0 Hrs.
Ambient Temperature (deg °C) 18.0
Average Flow Rate of SPM (m³/min) 1.1
Average Flow Rate of Gases (lpm.) 1.0
Weather Conditions Clear
Remark (if any) NA

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	Limits as per EPA*
1	Particulate Matter (PM10)	IS:5182 (P-23)	94.5	µg/m³	100.0
2	Particulate Matter (PM2.5)	Eko/Chem/SOP/AAQ-01	55.0	µg/m³	60.0
3	Sulphur dioxide (as SO2)	IS:5182 (P-2)	13.6	µg/m³	80.0
4	Nitrogen Dioxide (as NO2)	IS:5182 (P-6)	34.4	µg/m³	80.0
5	Carbon Monoxide (as CO)	IS:5182 (P-10)	<1.15	mg/m³	4.0
6	Lead (as Pb)	IS:5182 (P-22)	<0.1	µg/m³	1.0
7	Nickel as Ni	Eko/Chem/SOP/AAQ-02	<15.0	ng/m³	20.0
8	Arsenic (as As)	Eko/Chem/SOP/AAQ-02	<5.0	ng/m³	6.0
9	Ozone (as O3)	IS:5182 (P-9)	<10.0	µg/m³	180.0
10	Ammonia (as NH3)	APHA 3rd Ed. Method 401	<20.0	µg/m³	400.0
11	Benzene (as C6H6)	IS:5182 (P-11)	<1.0	µg/m³	5.0
12	Benzo (alpha) Pyrene-Particulate Phase only	IS:5182 (P-12)	<1.0	ng/m³	1.0

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Contact No. : 9711159210, 9711159427, SMS/Whatsapp No. : 9711163422, E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact
Group : A-9711159337

TEST REPORT**Ambient Air Quality Monitoring**

Test Report No. :	EK0/EV-AA/107/250219	Issue Date	01/03/2019
Issued To	HINDUSTAN ZINC LIMITED PLOT NO. - 2 SECTOR - 14, IIE, SIDCUL PANTNAGAR, RUDRAPUR (UTTRAKHAND)		
Sample Description	Ambient Air		
Sample Drawn on	20/02/2019 To 21/02/2019		
Sample Drawn by	EPEPL(Mr. Sudesh Dubey)		
Sample Received on	25/02/2019		
Sampling Location	ESP Corner of the Exiting Plot (SE Corner of Lead Plant)		
Sampling Plan & Procedure	SOP-AAQ/15		
Analysis Duration	25/02/2019 To 28/02/2019		
Sampling Time	24.0 Hrs.		
Ambient Temperature (deg °C)	18.0		
Average Flow Rate of SPM (m³/min)	1.1		
Average Flow Rate of Gases (lpm.)	1.0		
Weather Conditions	Clear		
Remark (if any)	NA		

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	Limits as per EPA*
1	Particulate Matter (PM10)	IS 5182 (P-23)	86.9	µg/m ³	100.0
2	Particulate Matter (PM2.5)	Eko/Chem/SOP/AAQ-01	50.2	µg/m ³	60.0
3	Sulphur dioxide (as SO ₂)	IS:5182 (P-2)	13.4	µg/m ³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS:5182 (P-6)	30.6	µg/m ³	80.0
5	Carbon Monoxide (as CO)	IS:5182 (P-10)	<1.15	mg/m ³	4.0
6	Lead (as Pb)	IS:5182 (P-22)	<0.1	µg/m ³	1.0
7	Nickel as Ni	Eko/Chem/SOP/AAQ-02	<15.0	ng/m ³	20.0
8	Arsenic (as As)	Eko/Chem/SOP/AAQ-02	<5.0	ng/m ³	6.0
9	Ozone (as O ₃)	IS 5182 (P-8)	<10.0	µg/m ³	180.0
10	Ammonia (as NH ₃)	APHA 3rd Ed. Method 401	<20.0	µg/m ³	400.0
11	Benzene (as C ₆ H ₆)	IS:5182 (P-11)	<1.0	µg/m ³	5.0
12	Benzo (alpha) Pyrene-Particulate Phase only	IS:5182 (P-12)	<1.0	ng/m ³	1.0

For EKO PRO ENGINEERS PVT. LTD.



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Office & Laboratory : 32/41 South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No. : 9711159210, 9711159427, SMS/Whatsapp No. : 9711163422 E-mail : enva@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact

Group : A-9711159337

TEST REPORT**Ambient Air Quality Monitoring**

Test Report No. :	EK0/EV-AA/108/250219	Issue Date	02/03/2019
Issued To	HINDUSTAN ZINC LIMITED PLOT NO. - 2 SECTOR - 14, IIE, SIDCUL PANTNAGAR, RUDRAPUR (UTTRAKHAND)		
Sample Description	Ambient Air		
Sample Drawn on	21/02/2019 To 22/02/2019		
Sample Drawn by	EPEPL(Mr. Sudesh Dubey)		
Sample Received on	25/02/2019		
Sampling Location	Canteen East Side in New Plant		
Sampling Plan & Procedure	SOP-AAQ/15		
Analysis Duration	25/02/2019 To 01/03/2019		
Sampling Time	24.0 Hrs.		
Ambient Temperature (deg °C)	18.0		
Average Flow Rate of SPM (m³/min)	1.1		
Average Flow Rate of Gases (lpm.)	1.0		
Weather Conditions	Clear		
Remark (if any)	NA		

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	Limits as per EPA*
1	Particulate Matter (PM10)	IS:5182 (P-23)	84.1	µg/m ³	100.0
2	Particulate Matter (PM2.5)	Eko/Chem/SOP/AAQ-01	48.6	µg/m ³	80.0
3	Sulphur dioxide (as SO ₂)	IS:5182 (P-2)	11.6	µg/m ³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS:5182 (P-6)	29.8	µg/m ³	80.0
5	Carbon Monoxide (as CO)	IS:5182 (P-10)	<1.15	mg/m ³	4.0
6	Lead (as Pb)	IS:5182 (P-22)	<0.1	µg/m ³	1.0
7	Nickel as Ni	Eko/Chem/SOP/AAQ-02	<15.0	ng/m ³	20.0
8	Arsenic (as As)	Eko/Chem/SOP/AAQ-02	<5.0	ng/m ³	6.0
9	Ozone (as O ₃)	IS:5182 (P-9)	<10.0	µg/m ³	180.0
10	Ammonia (as NH ₃)	APHA 3rd Ed. Method 401	<20.0	µg/m ³	400.0
11	Benzene (as C ₆ H ₆)	IS:5182 (P-11)	<1.0	µg/m ³	5.0
12	Benzo (alpha) Pyrene-Particulate Phase only	IS:5182 (P-12)	<1.0	ng/m ³	1.0

For EKO PRO ENGINEERS PVT. LTD.



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(An ISO 9001:2015 Certified Company)Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No. : 9711159337, 9711153427, SMS/Whatsapp No. : 9711163422, E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact

Group : A-9711159337

TEST REPORT**Ambient Air Quality Monitoring**

Test Report No. : EK0/EV-AA/109/250219

Issue Date : 01/03/2019

Issued To : HINDUSTAN ZINC LIMITED
PLOT NO. - 2
SECTOR - 14, IIE, SIDCUL
PANTNAGAR, RUDRAPUR
(UTTRAKHAND)

Sample Description : Ambient Air
Sample Drawn on : 21/02/2019 To 22/02/2019
Sample Drawn by : EPEPL(Mr. Sudesh Dubey)
Sample Received on : 25/02/2019
Sampling Location : Near Security Main Gate
Sampling Plan & Procedure : SOP-AAQ/15
Analysis Duration : 25/02/2019 To 28/02/2019
Sampling Time : 24.0 Hrs.
Ambient Temperature (deg °C) : 18.0
Average Flow Rate of SPM (m³/min) : 1.1
Average Flow Rate of Gases (lpm.) : 1.0
Weather Conditions : Clear
Remark (if any) : NA

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	Limits as per EPA'
1	Particulate Matter (PM10)	IS:5182 (P-23)	90.6	µg/m³	100.0
2	Particulate Matter (PM2.5)	Eko/Chem/SOP/AAQ-01	52.0	µg/m³	60.0
3	Sulphur dioxide (as SO2)	IS:5182 (P-2)	12.2	µg/m³	80.0
4	Nitrogen Dioxide (as NO2)	IS:5182 (P-6)	32.6	µg/m³	60.0
5	Carbon Monoxide (as CO)	IS:5182 (P-10)	<1.15	mg/m³	4.0
6	Lead (as Pb)	IS:5182 (P-22)	<0.1	µg/m³	1.0
7	Nickel as Ni	Eko/Chem/SOP/AAQ-02	<15.0	ng/m³	20.0
8	Arsenic (as As)	Eko/Chem/SOP/AAQ-02	<5.0	ng/m³	6.0
9	Ozone (as O3)	IS:5182 (P-9)	<10.0	µg/m³	180.0
10	Ammonia (as NH3)	APHA 3rd Ed. Method 401	<20.0	µg/m³	400.0
11	Benzene (as C6H6)	IS:5182 (P-11)	<1.0	µg/m³	5.0
12	Benzo (alpha) Pyrene-Particulate Phase only	IS:5182 (P-12)	<1.0	ng/m³	1.0

For EKO PRO ENGINEERS PVT. LTD.



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Environmental Consultants and Analytical Laboratory

(An ISO 9001:2015 Certified Company)

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 008 (Delhi-NCR) INDIA
Contact No. : 9711159210, 9711159427, SMS/Whatsapp No. : 9711153422, E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact

Group : A-9711159337

TEST REPORT**Noise Monitoring**

Test Report No. :	EKO/EV-NM/106/250219	Issue Date	02/03/2019
Issued To	HINDUSTAN ZINC LIMITED PLOT NO. - 2 SECTOR - 14, IIE, SIDCUL PANTNAGAR, RUDRAPUR (UTTRAKHAND)		
Sample Description	Ambient Noise		
Sample Drawn on	21/02/2019		
Sample Drawn by	EPEPL(Mr. Sudesh Dubey)		
Sample Received on	25/02/2019		
Sampling Location	Near Main Gate		
Sampling Plan & Procedure	SOP-N/01		
Environmental Condition	Normal		
Analysis Duration	25/02/2019 To 26/02/2019		
Remark (if any)	NA		

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA *
1	Leq (Day Time)	Eko/Chem/SOP/S/N-01	63.4	dB (A)	75.0
2	Leq (Night Time)	Eko/Chem/SOP/S/N-01	49.6	dB (A)	70.0

* Details as per EPA -1986 Ambient Noise Quality Standards, Schedule-III, (Rule-3)

Notes :****End of Report****

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4. Responsibility of the Laboratory is limited to the invoiced amount only.

For EKO PRO ENGINEERS PVT. LTD.



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EKO PRO ENGINEERS PVT. LTD.Environmental Consultants and Analytical Laboratory
(An ISO 9001:2015 Certified Company)Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA
Contact No. : 9711159210, 9711159427, SMS/WhatsApp No. : 9711163422, E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.inFor Any Query Contact
Group : A-9711159337**TEST REPORT****Noise Monitoring**

Test Report No. : EK0/EV-NM/108/250219

Issue Date : 02/03/2019

Issued To

HINDUSTAN ZINC LIMITED
PLOT NO. - 2
SECTOR - 14, IIE, SIDCUL
PANTNAGAR, RUDRAPUR
(UTTRAKHAND)

Sample Description : Ambient Noise
Sample Drawn on : 20/02/2019
Sample Drawn by : EPEPL(Mr. Sudesh Dubey)
Sample Received on : 25/02/2019
Sampling Location : Near Compressor Area
Sampling Plan & Procedure : SOP-N/01
Environmental Condition : Normal
Analysis Duration : 25/02/2019 To 26/02/2019
Remark (if any) : NA

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA *
1	Leq (Day Time)	Eko/Chem/SOP/S/N-01	73.8	dB (A)	75.0
2	Leq (Night Time)	Eko/Chem/SOP/S/N-01	68.0	dB (A)	70.0

* Details as per EPA -1986 Ambient Noise Quality Standards, Schedule-III, (Rule-3)

Notes :

End of Report

1. The results given above are related to the tested sample, as received & mentioned parameters.
The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without written permission of the Laboratory.
3. This test report will not be used for any publicity/legal purpose.
4. Responsibility of the Laboratory is limited to the invoiced amount only.

For EKO PRO ENGINEERS PVT. LTD.



Authorized Signatory



Contact : +91 - 9810243870

EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory

(An ISO 9001:2015 Certified Company)

Office & Laboratory : 22/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No. : 9711159210, 9711159422, SMS/Whatsapp No. : 9711163422, E-mail : ekopro@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

For Any Query Contact

Group : A-9711159337

TEST REPORT**Noise Monitoring****Test Report No. :** EK0/EV-NM/107/250219**Issue Date** 02/03/2019

Issued To

HINDUSTAN ZINC LIMITED
PLOT NO. - 2
SECTOR - 14, IIE, SIDCUL
PANTNAGAR, RUDRAPUR
(UTTRAKHAND)

Sample Description Ambient Noise
Sample Drawn on 20/02/2019
Sample Drawn by EPEPL(Mr. Sudesh Dubey)
Sample Received on 25/02/2019
Sampling Location Back Side Of DG Area
Sampling Plan & Procedure SOP-N/01
Environmental Condition Normal
Analysis Duration 25/02/2019 To 26/02/2019
Remark (if any) NA

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA *
1	Leq (Day Time)	Eko/CheM/SOP/S/N-01	71.7	dB (A)	75.0
2	Leq (Night Time)	Eko/CheM/SOP/S/N-01	67.5	dB (A)	70.0

* Details as per EPA - 1986 Ambient Noise Quality Standards, Schedule-III, (Rule-3)

Notes :****End of Report****

1. The results given above are related to the tested sample, as received & mentioned parameters.
The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without written permission of the Laboratory.
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For EKO PRO ENGINEERS PVT. LTD.



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For Any Query Contact

Group : A-9711159337

TEST REPORT**Noise Monitoring**

Test Report No. : EK0/EV-NM/105/250219

Issue Date 02/03/2019

Issued To

HINDUSTAN ZINC LIMITED
PLOT NO. - 2
SECTOR - 14, IIE, SIDCUL
PANTNAGAR, RUDRAPUR
(UTTRAKHAND)

Sample Description Ambient Noise
Sample Drawn on 21/02/2019
Sample Drawn by EPEPL(Mr. Sudesh Dubey)
Sample Received on 25/02/2019
Sampling Location East Side Of Canteen in New Plant
Sampling Plan & Procedure SOP-N/01
Environmental Condition Normal
Analysis Duration 25/02/2019 To 26/02/2019
Remark (if any) NA

RESULTS

S.No.	PARAMETER	Test Methods	Results	Units	LIMITS AS PER EPA *
1	Leq (Day Time)	Eko/Chem/SOP/S/N-01	69.6	dB (A)	75.0
2	Leq (Night Time)	Eko/Chem/SOP/S/N-01	54.8	dB (A)	70.0

* Details as per EPA -1986 Ambient Noise Quality Standards, Schedule-III, (Rule-3)

End of Report

Notes :

1. The results given above are related to the tested sample, as received & mentioned parameters.
The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without written permission of the Laboratory.
3. This test report will not be use for any publicity/legal purpose.
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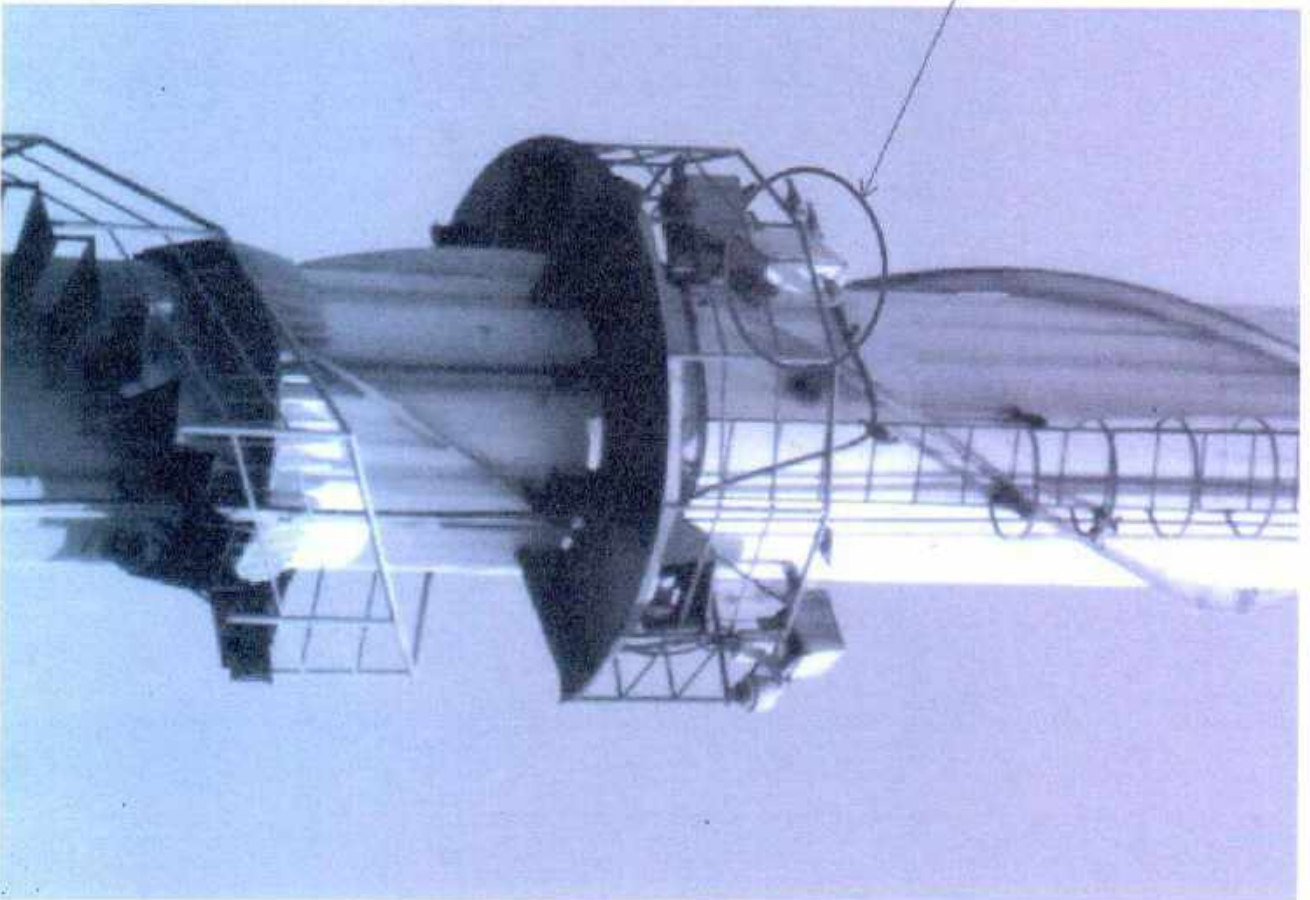
For EKO PRO ENGINEERS PVT. LTD.






Authorized Signatory

PM analyzer Installed at Stack

PM analyzer



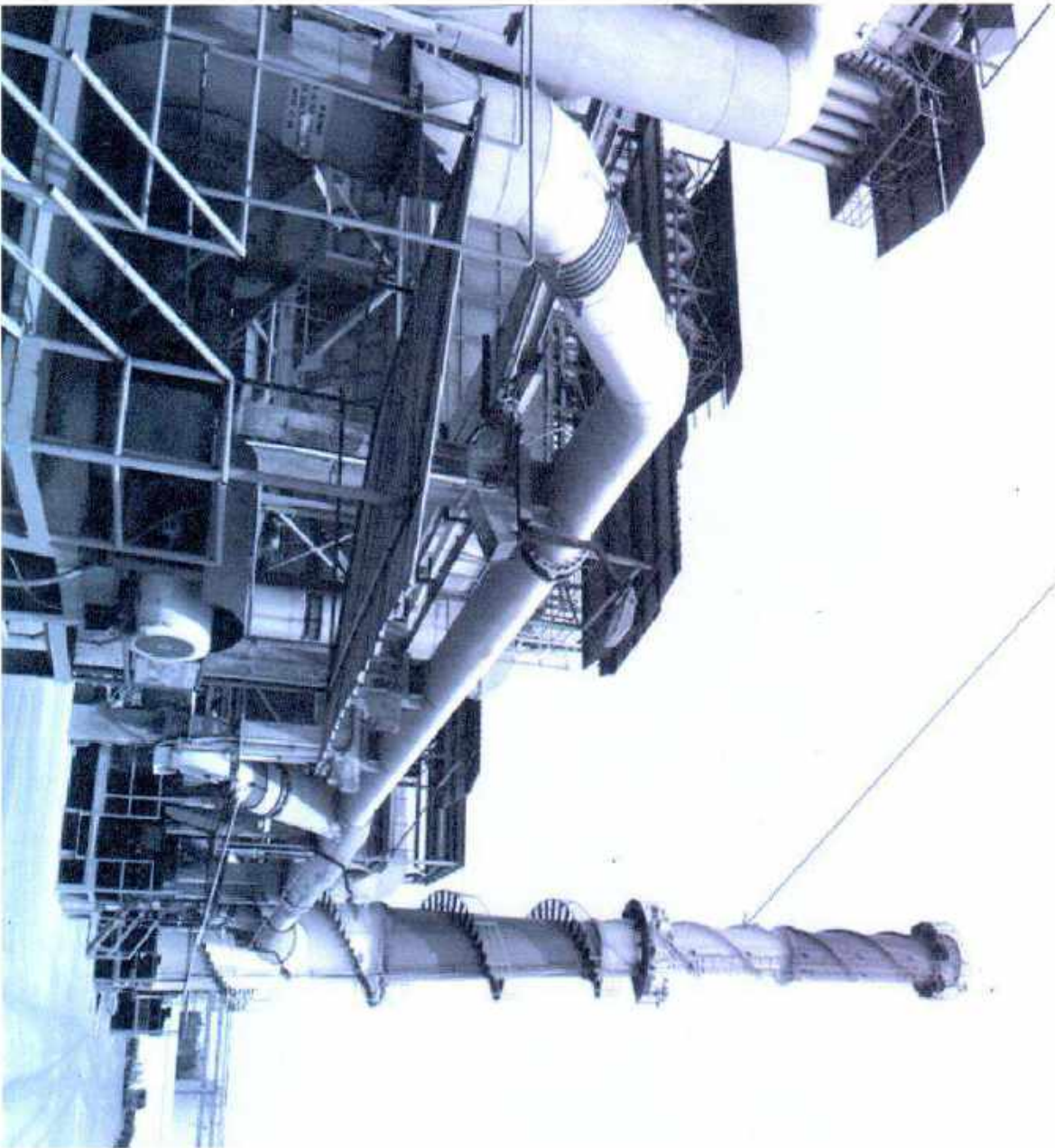
ANNEXURE - 6

S. No.	Name of the waste	Photographs
1.	Zinc Dross Storage Yard	
2.	Lead Dross Storage Yard	
3.	Used Oil Storage Yard	

Rain water Storage Ponds



Silver Process Stack



Silver NOx Stack

