

Ref: - ESPL/ISL/SMC/Oct-2019 to Mar-2020

Date: 23/07/2020

To,  
**The Dy. Director General of Forests (Central)**  
Eastern Regional Office,  
Ministry of Environment Forests & Climate Change,  
A/3, Chandrashekharpur, Bhubaneswar – 751023 (Odisha)

**SUB: Six Monthly (Oct-2019 to Mar-2020) Compliance to Environmental Clearance conditions vide MoEF F. No. J-11011/188/2011-IA- II (I) Dated 20<sup>th</sup> September, 2012 by M/s Impex Steel Limited (Currently known as Eloquent Steel Pvt. Ltd.) Vill-Nakrajoria, PO & PS-Salanpur, Dist.–Paschim Burdwan-713357, (WB)**

Dear Sir,

With reference to above, we are submitting enclosed herewith the six monthly compliance report (Period Oct-2019 to Mar-2020) for M/s Impex Steel Ltd. (Currently known as Eloquent Steel Pvt. Ltd.) Village -Nakrajoria, PO & PS-Salanpur, Dist.–Paschim Burdwan (WB) as per the directives of Ministry of Environment Forest and Climate Change, Government of India. Point wise compliance status report along with latest environment monitoring data is enclosed for your kind perusal.

Hard copy of the report has not been sent following your direction vide File No. 106-12/EPE Dated 11.05.2020. Hope you will find the same in order.

We are sincerely regretted for the delay in submission of six monthly compliance report.

Kindly acknowledge our submission.

Thanking You.

Yours Faithfully,

For **Impex Steel Limited**  
(Currently known as Eloquent Steel Pvt. Ltd.)

Authorized Signatory

Encl: as above



Copy to:

The Sr. Environmental Engineer, West Bengal Pollution Control Board, Asansol Regional Office,  
ADDA Commercial Market (2<sup>nd</sup> Floor), Oppo. Asansol Fire Station, GT Road, Asansol-713301  
Dist-Paschim Burdwan (WB).

# SIX MONTHLY COMPLIANCE REPORT

October, 2019 - March, 2020



Prepared by:

M/S Impex Steel Limited

(Currently known as M/s. Eloquent Steel Pvt. Ltd.)

Vill-Nakrajoria, PO-Salanpur, Dist-Paschim Burdwan-713357 (WB)

# Impex Steel Limited

COMPLIANCE STATUS ON ENVIRONMENTAL CLEARANCE

Vide MoEF & CC, F. No. : J-11011/188/2011-IA-II (I) Dated: 20<sup>th</sup> Sept., 2012

**COMPLIANCE PERIOD:**  
OCTOBER-2019 TO MARCH-2020

## INTRODUCTION

The project of M/s Impex Steel Ltd. (currently known as M/s. Eloquent Steel Pvt. Ltd.) is located at Village-Nakrajoria, PO & PS- Salanpur, District- Paschim Burdwan-713357, West Bengal.

Eloquent Steel Private Limited (ESPL) was incorporated in the year 2012. As per Certificate of Incorporation Corporate Identity Number is U 51909 WB 2012 PTC 185734, 2012-13 dated 11.09.2012 issued by the Registrar of Companies, Kolkata. For the purpose of setting up Ferro Alloy Plant, ESPL has acquired 2 existing Plants which are located adjacent to each other with common boundary wall through Auction from Official Liquidator of Hon'ble High Court, Calcutta and also through bidding in Auction Notice Issued by Stressed Asset Management Branch of State Bank of India, Kolkata. The Impex Steel Ltd was obtained from SBI, SAMB, Kolkata and the possession received date-22.12.2017 (**Annexure-1**). Date of land registry in the name of Eloquent Steel Pvt. Ltd. from Impex -12.04.2018. The Units were not in operation for about three years and was put up for auction by the authorities. The Required Maintenance and Overhauling work started from April, 2018.

M/s. Impex Steel Ltd. (currently known as M/s. Eloquent Steel Pvt. Ltd.) was granted Environmental Clearances from GoI, MoEF & CC (Impact Assessment Division) and Consent to Establish as well as Consent to Operate from West Bengal Pollution Control Board respectively. As part of the compliance of statutory requirement environmental quality monitoring has been carried out by M/s Envirocheck, Kolkata, West Bengal.

The details' regarding compliance has been mentioned herewith in the following pages for the six monthly period of October, 2019 to March, 2020.



## Six Monthly EC Compliance Report

<b>Name of the Project</b>	<b>:</b>	<b>M/s Impex Steel Limited.</b> (Currently known as Eloquent Steel Pvt. Ltd.) Village-Nakrajoria, PO & PS-Salanpur, Dist. -Paschim Burdwan (WB)
<b>Environmental Clearance Letter No</b>	<b>:</b>	J-11011/188/2011-IA-II (I) Dated 20 <sup>th</sup> September, 2012
<b>Period of Compliance Report</b>	<b>:</b>	October 2019 to March 2020

Sl. No.	CONDITIONS	COMPLIANCE STATUS
<b>A. SPECIFIC CONDITIONS:</b>		
i.	No charcoal shall be used as fuel. Pet coke shall be used as fuel instead of charcoal from unknown sources.	No charcoal is being used as fuel.
ii.	Continuous monitoring facilities for all the major stacks and sufficient air pollution control equipments viz. fume extraction system with bag filters, ID fan and stack of adequate height to submerged arc furnace shall be provided to control emissions below 50 mg/Nm <sup>3</sup> .	The unit was not in operation for almost 3 years when ESPL acquired this closed unit in 2017. The plant again resumed the operations from last year i.e. 2019  ESPL has placed order on 26.02.2020 for procurement of Continuous Emission Monitoring System. But delivery is getting delayed for lockdown due to COVID-19 and is expected to be installed within next 3-4 Months.  Air pollution control devices viz. dust extraction systems with bag filters have been installed and efficiently operated to control emission level well within the norms.  Third party monitoring by NABL accredited laboratory being conducted periodically to evaluate the emission levels.  Latest stack monitoring report is enclosed as <b>Annexure-2</b>
	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.	Being complied. Ambient Air Quality is regularly being monitored. Last Monitoring Report is enclosed as <b>Annexure-3</b>
iv.	Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.	Fume extraction system with spark arrester and bag filters have been provided with the Induction Furnaces and Fume extraction system with Bag Filters are provided with SEAFs to capture Fugitive emissions during process. Water sprinkling being done to control fugitive emissions on roads.  Last (Fugitive Emission) monitoring report is enclosed as <b>Annexure-4</b>



v.	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.	It is being complied. Regular monitoring of effluent and ground water quality is being done. No effluent will be discharged outside the plant premises. Last monitoring report is enclosed as <b>Annexure-5</b>
vi.	The total water requirement shall not exceed 45m <sup>3</sup> /day. 'Zero' effluent discharge shall be strictly followed and no wastewater should be discharged outside the premises. Permission from the competent authority for drawl of water shall be obtained.	All possible attempts are taken to ensure optimal use of water within the factory premises. Recycle and Reuse practice has been adapted by us to 'Zero' effluent discharge and no effluent being discharged outside factory premises Necessary permission from District Level Ground Water Authority for drawl of ground water has been taken. Please refer <b>Annexure-6</b>
vii.	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement should be met from other sources.	Noted. We have a rain water harvesting pond and water from this pond is being used in order to keep the water requirement low.
viii.	Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture of Silico Manganese (Si-Mn). All the other ferro alloy slag shall be used in the preparation of building materials.	It is being complied. No Ferro-Manganese was produced during this period. Silico Manganese slag and Induction furnace slag is being crushed and used as aggregate material and for land filling and road construction.
ix.	No Ferro Chrome shall be manufactured without prior approval from the Ministry of Environment & Forests.	Noted. No Ferro Chrome is manufactured in the plant.
X.	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB within 3 months of issue of environment clearance letter.	Risk and Disaster Management Plan along with mitigation measures has been prepared and attached as <b>Annexure-7</b>
Xi.	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 16th November, 2011 should be satisfactorily implemented and a separate budget for implementing the same should be allocated	Public Hearing was held on 16th November, 2011 and EC was granted on 20 <sup>th</sup> September, 2012 and M/S Impex Steel Ltd. a closed unit was purchased by M/S Eloquent Steel Pvt. Ltd. (ESPL) and was taken over through auction from Stressed Assets Management Branch State Bank of India, Kolkata as per letter dated 22.12.2017 (Please refer



	and information submitted to the Ministry's Regional Office at Bhubaneswar.	<b>Annexure-1)</b> and we don't have the Public Hearing details that's why specific compliance is difficult for us.
Xii.	As proposed, green belt should be developed in at least 33 % of the project area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	We have initiated a massive plantation during this monsoon season by planting the indigenous species in consultation with DFO along with maintenance of existing plantation and doing dedicated effort to achieve the target within next 6 months. Some pics are attached as <b>Annexure-8</b>
Xiii.	At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.	EC was granted on 20 <sup>th</sup> September, 2012 and M/S Impex Steel Ltd. a closed unit was purchased by M/S Eloquent Steel Pvt. Ltd. (ESPL) and was taken over through auction from Stressed Assets Management Branch State Bank of India, Kolkata and we don't have any record of Public Hearing. It is believed that details might have been submitted by the then proponent.
xiv.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Noted. At present no construction work is carried on.
<b>B. GENERAL CONDITIONS:</b>		
i.	The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board (WBPCB) and the State Government.	Complied. Stipulations made by the West Bengal Pollution Control Board (WBPCB) and the State Government are strictly being adhered by the company. Consent to Operate obtained from WBPCB is attached as <b>Annexure-9</b>
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Noted. No further modification or expansion will be undertaken without prior approval of the MoEF&CC.
iii.	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM, SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the WBPCB including one ambient air quality monitoring station in the downwind direction. Data on ambient air quality and	Ambient Air Quality Monitoring being carried on as per direction in consideration of maximum ground level concentration of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , and NO <sub>x</sub> . Last Ambient Air Quality monitoring reports and stack monitoring reports are enclosed as <b>Annexure-3 and Annexure-2.</b>



	stack emission should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the WBPCB / CPCB once in six months	
iv.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Recycle and reuse practice has been adapted by us and no industrial waste water being discharged outside the factory premises. Effluent analysis report is enclosed as <b>Annexure-5</b>
v.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	It is being complied. Noise control measures has already been implemented to keep the noise level well within the 85 dB(A) and ambient noise level below 75 dB(A) (during day time) and 70 dB(A) (during night time). Ambient Noise and Work Zone Noise Monitoring report is attached as <b>Annexure 10A and 10B</b> .
vi.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance for the employees has been carried on and it shall be on regular basis. Some pics of the camp are attached as <b>Annexure-11</b> . Rerecords shall be maintained and submitted as per direction.
vii.	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Complied. We have rain water harvesting pond and water from this pond is being reused in order to keep the water requirement low.
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	EC was granted on 20 <sup>th</sup> September, 2012 and M/S Impex Steel Ltd. a closed unit was purchased by M/S Eloquent Steel Pvt. Ltd. (ESPL) and was taken over through auction from Stressed Assets Management Branch State Bank of India, Kolkata. EIA/EMP report is not having with us. Environmental protection measures viz. dust/Fume extraction system with spark arrester and bag filters have been provided with the Induction Furnaces and Fume extraction system with FD cooler followed by Bag Filters are provided with SEAFs to capture Fugitive emissions during process. Water sprinkling being done to control fugitive emissions on roads and plantation etc. being done to mitigate pollution level. For the safeguard of employees PPEs like safety helmet, safety shoes, hand gloves, nose masks, ear plug safety apron etc. being provided. Third party monitoring by NABL accredited laboratory being conducted periodically to evaluate the emission



		<p>level, noise and work zone monitoring. Reports are enclosed as <b>Annexure-2, 3, 4 and 10</b></p> <p>The company shall undertake the socio-economic development activities in the surrounding villages along with community development programmes and health care camps etc. Some pics of CSR initiatives taken are attached as <b>Annexure-12</b></p>
ix.	<p>Requisite amount shall be earmarked towards the capital cost and recurring cost/annum for environmental protection measures and judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.</p>	<p>As M/s Impex Steel Ltd. was purchased by ESPL through auction that's why we don't have the details of capital cost incurred. Recurring cost utilized for environmental protection measures was approx. 0.2 Crores during financial year 2019-20</p> <p>Suitable manpower has been provided for an efficient operation, monitoring and maintenance of the pollution control devices installed.</p>
x.	<p>A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.</p>	<p>Complied.</p> <p>It is believed that the same has been complied by the then project proponent to concerned local body. Trade License (Form-11) from Village Panchyat is attached as <b>Annexure-13</b></p>
xi.	<p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the WBPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>Being complied.</p> <p>Compliance status with the stipulated EC conditions shall be uploaded on company's website</p> <p><a href="http://shakambharispat.com/environmental-compliance">http://shakambharispat.com/environmental-compliance</a></p> <p>Compliance status report shall be submitted as per direction.</p>
xii.	<p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF at</p>	<p>It is being complied.</p> <p>Six monthly reports of EC Compliance including results of monitored data is being submitted to the regional Office of MOEF at Bhubaneswar, the respective Zonal Office of CPCB and the SPCB.</p>





	Bhubaneswar, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar / CPCB / WBPCB shall monitor the stipulated conditions	
xiii.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	The environment statement for Financial Year 2019-20 will be submitted to WBPCB by 30 <sup>th</sup> September and it will be uploaded on the company's website. Also, a copy will be sent to the Regional Offices of the MOEF&CC at Bhubaneswar as per direction.
xiv.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the WBPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneswar.	EC was granted on 20th September, 2012 and M/S Impex Steel Ltd. a closed unit was purchased by Eloquent Steel Pvt. Ltd. (ESPL) in December, 2017 ) and was taken over through auction from Stressed Assets Management Branch State Bank of India, Kolkata.  Since EC was granted on 20 <sup>th</sup> September 2012; therefore it is believed that the same has been complied by the then project proponent.
xv.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	EC was granted on 20th September, 2012 and M/S Impex Steel Ltd. a closed unit was purchased by Eloquent Steel Pvt. Ltd. (ESPL) in December, 2017 ) and was taken over through auction from Stressed Assets Management Branch State Bank of India, Kolkata.  Since EC was granted on 20 <sup>th</sup> September 2012; therefore it is believed that the same has been complied by the then project proponent



# ANNEXURE-1

SALE CONFIRMATION ADVICE

i) M/s Eloquent Steel Pvt Ltd.,  
"Diamond Prestige"  
41 A, A J C Bose Road,  
8th Floor,  
Room No. 801  
Kolkata, West Bengal

SAMB/BR/ 17/14

Date: 22.12.2017

Dear Sir,

You are the successful bidder for **Rs. 17.79 crs (Rs. Seventeen crores Seventy Nine lacs only)** in the auction held on 22.12.2017 of the property mortgaged by M/s Impex Steel Ltd., and more fully described in Schedule A.

SCHEDULE A

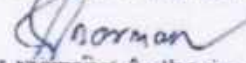
As per Deed Nos. : 1-4544, 1-4548, 1-4557, 1-4560, 1-4562, 1-4563, 1-4836, 1-4838, 1-4839, 1-4842, 1-4844, 1-4845, 1-4905, 1-4907, 1-4909, 1-4973, 1-4974, in the name of M/s. Impex Steel Ltd

- i) Factory land measuring 10.95 acre and building, factory shed thereon at Mouza -Nakera Joria, P.S- Salanpur, Dist: Burdwan, West Bengal on pari-passu basis with BOB.
- ii) P&M and other fixed assets (existing & future) on pari-passu basis with BOB.

You have remitted Rs.1,77,70,000/- through RTGS on 19.12.2017. You are advised to remit Rs.2,67,05,000/- (Rs. Two crores Sixty Seven lacs Five thousand only) immediately and the balance amount of Rs. 13,34,25000/- (Rupees Thirteen crores thirty four lacs twenty five thousand only) (including 1% TDS of Rs. 17,79,000/- in favour of M/s Impex Steel Ltd., PAN No. AABC14019H) on or before 15th day of confirmation of sale, transfer of the said property in your favour.

You may kindly note that on failure to remit the balance amount within the specified period i.e on or before 15th day of confirmation of sale the amount already remitted would be forfeited.

কৃষ্ণে: STATE BANK OF INDIA  
For STATE BANK OF INDIA

  
অনুমোদিত AUTHORIZED OFFICER  
সহকারী অফিসার প্রবন্ধন শাখা  
Stressed Assets Management Branch  
কলকাতা / Kolkata-700 071

# ANNEXURE-2



# ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB  
Accredited by NABL (ISO/IEC 17025:2017)  
Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Eloquent Steel Pvt. Ltd. (Formerly known as - Impex Steel Ltd.)	Type of Industry	: Ferro Alloy and SMS Unit
Address	: Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman	Sampling Date	: 13.02.2020
		Analysis completed on	: 15.02.2020 - 15.02.2020
		Date of Issue	: 20.02.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: 602/EC/M/A/1	Report No.	: 602/EC/M/TR(A)/1/19-20

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: SEAF (No.1) Through APC system	Height of Stack (mtr.) (from G.L.)	: 36.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 1.60
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 27.0
Capacity	: 7.5 MVA	Emission Due to	: Combustion of Coke & Reduction of Mn-Ore
Working Fuel Consumption	: Nil	Fuel Used	: Electrically Operated
Pollution Control Device	: Bag Filter (2 nos.) [756 bags in each Bag Filter]	Permanent Platform & Ladder	: Yes

### B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	66.2
2.	Barometric Pressure	mm of Hg.	-	756.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	12.5
4.	Quantity of Gas flow	Nm <sup>3</sup> /hr.	IS : 11255 (Part III)	78925.24
5.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	120.50
6.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 1992 RA 2003	1.4
7.	Concentration of CO	% (v/v)	IS 13270 1992 RA 2003	<1.0
8.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011	42.80

Remarks :

Reviewed By :

(DurbadalChakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 ■ Ph. 033 25792891 / 25497490 ■ Fax : 033 25299141  
 Laboratory : 189, 190 & 192, Rastraguru Avenue, Kolkata - 700028 ■ Ph. 033 25792889  
 E-mail : envcheck@cal2.vsnl.net.in/envirocheck50@gmail.com ■ Website : www.envirocheck.org  
 Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi  
 Overseas : UAE ■ Qatar ■ Netherlands



# ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB  
Accredited by NABL (ISO/IEC 17025:2017)  
Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Eloquent Steel Pvt. Ltd. (Formerly known as - Impex Steel Ltd.)	Type of Industry	: Ferro Alloy and SMS Unit
Address	: Vill - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman	Sampling Date	: 13.02.2020
		Analysis completed on	: 15.02.2020 - 15.02.2020
		Date of Issue	: 20.02.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: 602/EC/M/A/II	Report No.	: 602/EC/M/TR(A)/II/19-20
		Type of Sample	: Source Emission

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: SEAF (No.2) Through APC system	Height of Stack (mtr.) (from G. L.)	: 36.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 1.60
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 27.0
Capacity	: 7.5 MVA		
Emission Due to	: Combustion of Coke & Reduction of Mn-Ore		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Bag Filter (2 nos.) [756 bags in each Bag Filter]		

### B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 69.0
2.	Barometric Pressure	mm of Hg.	--	: 757.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 14.36
4.	Quantity of Gas flow	Nm <sup>3</sup> /hr.	IS : 11255 (Part III)	: 90129.47
5.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 620.0
6.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 1992 RA 2003	: 1.6
7.	Concentration of CO	% (v/v)	IS 13270 1992 RA 2003	: <1.0
8.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11 (Vol. 3 11.07) : 2011	: 32.50

Remarks :

Reviewed By :

(DurbadalChakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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 E-mail : envirocheck@cal2.vsnl.net.in/envirocheck50@gmail.com • Website : www.envirocheck.org  
 Branch Office : Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi  
 Overseas : UAE • Qatar • Netherlands



# ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB  
Accredited by NABL (ISO/IEC 17025:2017)  
Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Eloquent Steel Pvt. Ltd. (Formerly known as - Impex Steel Ltd.)	Type of Industry	: Ferro Alloy and SMS Unit
Address	: Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	: 13.02.2020
		Analysis completed on	: 15.02.2020 - 15.02.2020
		Date of Issue	: 20.02.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: 602/EC/M/A/III	Report No.	: 602/EC/M/TR(A)/III/19-20

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Hood Over Induction Furnace (2 x 7 MT/Batch) attached to common stack
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: 2 x 7 MT/Batch (1 Batch = 2 hrs.)
Emission Due to	: Melting of Sponge, Pig Iron and Scrap
Fuel Used	: Electrically Operated
Working Fuel Consumption	: Nil
Pollution Control Device	: Bag Filter

### B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	44.5
2.	Barometric Pressure	mm of Hg.	"	756.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	10.26
4.	Quantity of Gas flow	Nm <sup>3</sup> /hr.	IS : 11255 (Part III)	32712.27
5.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11 (Vol. 3 11.07) : 2011	36.20

Remarks :

Reviewed By :

(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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# ANNEXURE-3





# ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB  
 Accredited by NABL (ISO/IEC 17025:2017)  
 Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Eloquent Steel Pvt. Ltd. (Formerly known as - Impex Steel Ltd.)	Type of Industry	: Ferro Alloy and SMS Unit
Address	: Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman	Sampling Date	: 13.02.2020 - 14.02.2020
		Analysis completed on	: 15.02.2020 - 15.02.2020
		Date of Issue	: 20.02.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: 602/EC/M/A/IV	Report No.	: 602/EC/M/TR(A)/IV/19-20

### A) GENERAL INFORMATION

1. Location of Sampling : Near Administrative Building
2. Duration of Sampling : 24 hrs. (09:30 a.m. - 09:30 a.m.)

### B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 24.5
2. Average Relative Humidity (%) : 68.56
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	48.25
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	80.10
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	8.20
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	25.0
5.	Concentration of CO	mg/m <sup>3</sup>	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.21
6.	Concentration of Pb	µg/m <sup>3</sup>	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	NIOSH Manual of Analytical Method, 4 <sup>th</sup> Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m <sup>3</sup>	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m <sup>3</sup>	EPA IO 3.2, 1999, APHA 23 <sup>rd</sup> Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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# ENVIROCHECK

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## TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Eloquent Steel Pvt. Ltd. (Formerly known as - Impex Steel Ltd.)	Type of Industry	: Ferro Alloy and SMS Unit
Address	: Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman	Sampling Date	: 13.02.2020 - 14.02.2020
		Analysis completed on	: 15.02.2020 - 15.02.2020
		Date of Issue	: 20.02.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: 602/EC/M/A/V	Report No.	: 602/EC/M/TR(A)/V/19-20

### A) GENERAL INFORMATION

1. Location of Sampling : Near Main Gate
2. Duration of Sampling : 24 hrs. (09:50 a.m. - 09:50 a.m.)

### B) METEOROLOGICAL INFORMATION

1. Average Temperature ( $^{\circ}$ C) : 25.5
2. Average Relative Humidity (%) : 72.8
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM <sub>2.5</sub>	$\mu$ g/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	54.10
2.	Concentration of PM <sub>10</sub>	$\mu$ g/m <sup>3</sup>	IS 5182 (PART 23) : 2006	89.75
3.	Concentration of SO <sub>2</sub>	$\mu$ g/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	10.0
4.	Concentration of NO <sub>2</sub>	$\mu$ g/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	36.23

Remarks :

Reviewed By :

(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

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## TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Eloquent Steel Pvt. Ltd. (Formerly known as - Impex Steel Ltd.)	Type of Industry	: Ferro Alloy and SMS Unit
Address	: Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman	Sampling Date	: 13.02.2020 - 14.02.2020
		Analysis completed on	: 15.02.2020 - 15.02.2020
		Date of issue	: 20.02.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: 602/EC/M/A/VII	Report No.	: 602/EC/M/TR(A)/VII/19-20

### A] GENERAL INFORMATION

1. Location of Sampling : Near M.C.C. Building (Back Side of the Plant)
2. Duration of Sampling : 24 hrs. (10:40 a.m. - 10:40 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 24.5
2. Average Relative Humidity (%) : 74.8
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	49.28
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	80.15
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.89
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	25.0

Remarks :

Reviewed By :

{DurbadalChakraborty}  
(Dy. Quality Manager)

Approved By :

{Dr. Ajoy Paul}  
(Quality Manger)

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## TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Eloquent Steel Pvt. Ltd. (Formerly known as - Impex Steel Ltd.)	Type of Industry	: Ferro Alloy and SMS Unit
Address	: Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman	Sampling Date	: 13.02.2020 - 14.02.2020
		Analysis completed on	: 15.02.2020 - 15.02.2020
		Date of Issue	: 20.02.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: 602/EC/M/A/VI	Report No.	: 602/EC/M/TR(A)/VI/19-20
		Type of Sample	: Ambient Air

### A) GENERAL INFORMATION

1. Location of Sampling : Nakrajoria Village (1 km. Distance from Plant)
2. Duration of Sampling : 24 hrs. (10:20 a.m. - 10:20 a.m.)

### B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 23.5
2. Average Relative Humidity (%) : 78.2
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA 1997a, 40 CFR Part 50, Appendix L	46.25
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2006	76.50
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.80
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	23.20

Remarks :

Reviewed By :

(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
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# ANNEXURE-4



# ENVIROCHECK

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Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Eloquent Steel Pvt. Ltd. (Formerly known as - Impex Steel Ltd.)	Type of Industry	: Ferro Alloy and SMS Unit
Address	: Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman	Sampling Date	: 13.02.2020
		Analysis completed on	: 15.02.2020 - 15.02.2020
		Date of Issue	: 20.02.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: 602/EC/M/A/VIII	Report No.	: 602/EC/M/TR(A)/VIII/19-20

### A) GENERAL INFORMATION

1. Location of Sampling : Inside the Ferro Division
2. Duration of Sampling : 08 hrs. (10:45 a.m. - 06:45 p.m.)

### B) METEOROLOGICAL INFORMATION

1. Average Temperature ( $^{\circ}$ C) : 34.5
2. Average Relative Humidity (%) : 68.2
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell

### C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SPM	$\mu$ g/m <sup>3</sup>	NIOSH 0500 : 2005	320.5
2.	*Concentration of SO <sub>2</sub>	$\mu$ g/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007; Sec. 11 (Vol. 11.07) : 2011	9.80
3.	*Concentration of NO <sub>2</sub>	$\mu$ g/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 ; Sec. 11 (Vol. 11.07) : 2011	30.0

Remarks : The parameters marked with an (\*) are not Accredited by NABL.

Reviewed By :

(DurbadalChakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO : ENV/FM/52

Name of the Industry	: Eloquent Steel Pvt. Ltd. (Formerly known as - Impex Steel Ltd.)	Type of Industry	: Ferro Alloy and SMS Unit
Address	: Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman	Sampling Date	: 13.02.2020
		Analysis completed on	: 15.02.2020 - 15.02.2020
		Date of Issue	: 20.02.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: 602/EC/M/A/X	Report No.	: 602/EC/M/TR(A)/X/19-20

### A] GENERAL INFORMATION

1. Location of Sampling : Near Raw Materials Stock Yard
2. Duration of Sampling : 08 hrs. (11:00 a.m. - 07:00 p.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 32.0
2. Average Relative Humidity (%) : 79.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell

### C] RESULTS

Sl. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SPM	µg/m <sup>3</sup>	NIOSH 0500 : 2005	480.53
2.	*Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.37
3.	*Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	23.88

Remarks : The parameters marked with an (\*) are not Accredited by NABL.

Reviewed By :

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Approved By :

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# ANNEXURE-5




FORMAT NO. ENV/FM/40

## TEST REPORT


Name of the Industry	: Eloquent Steel Pvt. Ltd. (Formerly known as - Impex Steel Pvt. Ltd.)	Type of Industry	: Ferro Alloy and SMS Unit		
Address	: Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	: 14.02.2020		
		Period of Analysis	: 15.02.2020 - 18.02.2020		
		Date of Issue	: 19.02.2020		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Industrial Effluent Water (Grab)
Location	: Cooling Water Storage Tank	Sample ID No.	: ENV/1010A/W/M	Report No.	: ENV/1010A/W/M/19-20

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH value	4500 H+B APHA 23 <sup>rd</sup> Edition, 2017	-	7.15
2.	Total Suspended Solids	2540 D APHA 23 <sup>rd</sup> Edition, 2017	mg/l	15.0
3.	Oil & Grease	5520 Oil B/D APHA 23 <sup>rd</sup> Edition, 2017	mg/l	<1.0
4.	Chemical Oxygen Demand	5200 COD B/C/D APHA 23 <sup>rd</sup> Edition, 2017	mg/l	20.0
5.	Biochemical Oxygen Demand for 3 days at 27°C	5210 BOD B APHA 23 <sup>rd</sup> Edition, 2017	mg/l	5.0

Reviewed By :

  
(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

  
(Dr. Ajoy Paul)  
(Quality Manger)

**LECHATE STUDY**

1.	Name of the Industry	:	Eloquent Steel Pvt. Ltd. (Formerly Known as - Impex Steel Pvt. Ltd.)
2.	Address	:	Vill. - Nakraoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman
3.	Date of sampling	:	14.02.2020
4.	Report No.	:	Env/1010B/W/M/19-20
5.	Reporting date	:	19.02.2020
6.	Type of sample	:	SMS Slag

**PARAMETERS (mg/Lt.)**

Fe	Zn	Cr	Cu	Ni	Pb	Cd
8.20	7.85	1.80	3.20	4.50	1.50	<0.002

Authorised Signatory :



DR. AJAY PAUL  
Scientist

# ANNEXURE-6

(EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)

## PERMIT FOR SINKING OF NEW WELL

[U/S 7(3)(b) / 7(4)(b) / 7(5)(a) of the West Bengal Ground Water Resources  
(Management, Control and Regulation) Act 2005.]PERMIT NO. P02 33 026 00702 00000 01 TSE.

1. (a) Name of the applicant (user) : Shri/Smt. VIRENDRA KUMAR JAIN, Director,  
IMPEX STEEL PVT. LIMITED.
- (b) Son / Daughter of : Shri. Dharam Chand Patni.
- (c) Address of the applicant : Jayanti Enclave, Upcargarden, Asansol-4,  
Dist. - Burdwan.
- (d) Category of farmer (Please tick)  
(in case of irrigation well) : Small Farmer / Marginal Farmer / Others ✓
- (e) Serial No. of application Form  
and date of submission : BP 0118 Sl. No. 15.
- (f) Specimen signature of the user : Virendra Kumar Jain
2. Location particulars---  
(a) District : Burdwan.
- (b) Block, Mouza, J. L. No., Plot No. : Salanpur, Nekrajaria, 26, 702.
- (c) Municipality / Corporation  
Ward No. / Borough No., Holding No. : N.A.
3. Particulars of the proposed well and pumping device---  
(a) Type of the well : Tube well.
- (b) Approx. depth of the well (m) : 135 m.
- (c) Purpose of the well : Industrial.
- (d) Assembly size (for tube well) : 150 mm. X 100 mm.
- (e) Approx. strainer length (for tube well) : 18 m.
- (f) Diameter (for dug well) : N.A. m.
- (g) Type of pump to be used : Submersible.
- (h) H. P. of the pump : 3.5 H.P.
- (i) Operational device : Electric motor
- (j) Rate of withdrawal (m<sup>3</sup>/hr.) : 10 m<sup>3</sup>/hour.
- (k) Maximum allowable running hours per day : 4 hours.

This permit authorizes the owner applicant (user) to sink a well in the location specified at S1. (2) for extraction of ground water at a rate not exceeding that as shown at S1. (3) (j) and for running hours / day as shown at S1. (3) (K), and is valid subject to the observance of the conditions stated overleaf.

Place : Burdwan.

Date : 10.01.2008.



S. G. Ghosh  
Signature of the Issuing Authority  
Geologist and District Secretary  
District Level Ground Water Authority  
Burdwan

## Conditions :

- (1) In case of any change of ownership of the proposed well, fresh registration has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at S1. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.
- (3) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- (4) Any other condition imposed by the concerned Authority.



# ANNEXURE-7

# **Eloquent Steel Pvt. Limited**

(Formerly M/S Hira Concast Ltd. & M/S Impex Steel Ltd.)

Vill-Nakrajoria, PO&PS-Salanpur, Dist-Paschim Burdwan (WB)

## **RISK & DISASTER MANAGEMENT PLAN**

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**Introduction :**

The project site of M/S Eloquent Steel Pvt. Limited (ESPL) is located at Village: Nakrajoria, PO-Salanpur, District-Pachim Bardhaman in the state of West Bengal having Latitude: 23° 46' 33.06" N & Longitude: 86°51'43.02" E.

Project site of ESPL is well connected by road and rail. The nearest railway station is Salanpur which about 2 km from project site. Nearest Town/City/District Headquarter is Pachim Bardhaman at the distance of 14 km.

The last two decades have seen many technological innovations that have contributed to automated, more reliable and cost effective safety management techniques, equipment and systems. Responsiveness & competence needs to be created among the Indian industry about tools & methodologies of safety techniques to understand and mitigate the hazards they are dealing with on a day-to-day basis, and create a safe working environment, for its own machinery, employees and community around. The code of practice on safety management system will be very useful for engineering industries in order to eliminate hazards and for providing safe work environment to employees.

The safety and protection of people, equipment and the environment is a serious concern in the Engineering industries. Many industries have recognized the advantages of Safe Work Environment and are progressively adopting Safety Management System to prevent hazardous events, avoid production & manpower losses and other fallouts associated with industrial accidents. Safety management system also assists industries to enhance employee knowledge of operations, improve technical procedures, maintain accurate process safety information and increase overall facility productivity.

**GENERAL INFORMATION ABOUT THE FACTORY:**

Eloquent Steel Private Limited was incorporated in the year 2012 as per Certificate of Incorporation having Corporate Identity Number U51909WB2012PTC185734, 2012-13 dated 11.09.2012, issued by the Registrar of Companies, Kolkata.

For the purpose of setting up Ferro Alloy Plant, ESPL has acquired two existing Ferro Alloy Plants M/s Hira Concast Ltd and M/s Impex Ferro Steel Ltd., adjacent to each other, located at village: Nakrajoria, P.S. Salanpur, Dist: Bardhaman, West Bengal and taken possession in November, 2017 and April 2018 respectively and now under the ownership of ESPL a unit of Shakambhari Group who is having vast experience in the line of steel manufacturing.

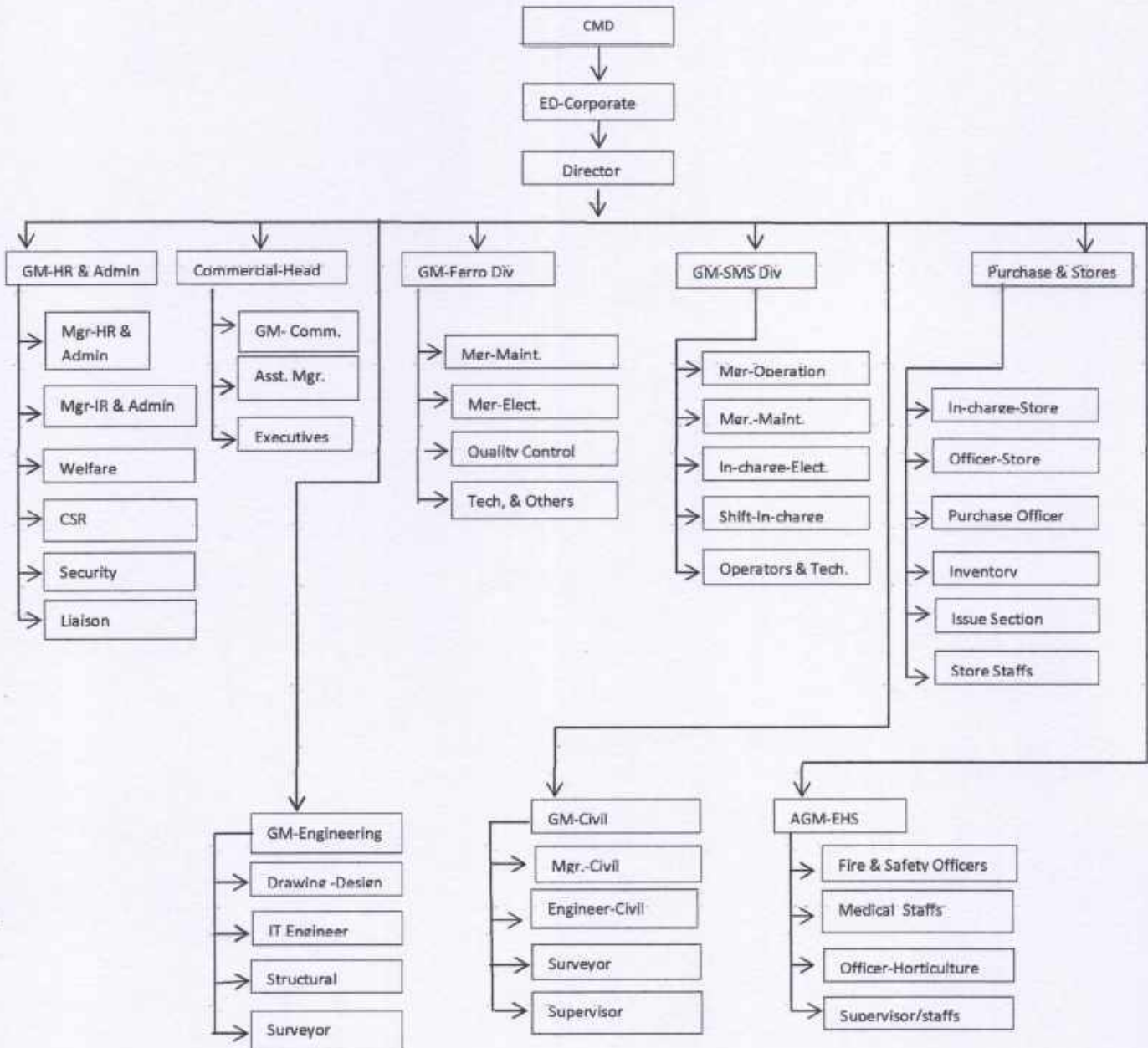
Presently, the company is having following facilities in operation:

- 3x7.5MVA+5.5MVSAF (1x7.5+1x5.5MVA Hira Concast Ltd. & 2x7.5MVA Impex Steel Ltd.)
- 4x7T Induction Furnace with CCM comprising of (2x7T Hira Cocast Ltd. & 2x7T Impex Steel Ltd.)



**Risk and Disaster Management Plan**

**Organizational Structure:**





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**Man Power**

Maximum number of persons available in the plant at any point of time is as follows:

**Persons working under various shifts**


SL. NO.	SHIFT	PERIOD	AVERAGE EMPLOYMENT/DAY
1.	A	06:00-14:00 Hrs	45
2.	B	14:00-22:00 Hrs	29
3.	C	22:00-06:00 Hrs	30
4.	R		41
5.	G	09:00-18:00 Hrs (Lunch Break: 13:00-14:00 Hrs)	47
Total			<b>192</b>

Depending on requirements employees are called in different shifts and few employees are called on duty during national/festival holidays and off days.

**Nature of Hazards in BSIPL**

A steel industry is hazardous by its very nature. The nature of various hazards in BSIPL Plant is detailed below:

Hazards	Source
Fire Hazard	Spillage of fuel oil,
Explosion due to spillage of hot metal coming in contact with water	Spillage/Transfer of hot metal, or liquid steel
Heat radiation due to hot metal handling	Spillage of liquid metal, hot steel and hot slag
Accidents due to failure of Material Handling (lifting & carrying) Equipment	Connected with all Material Handling Equipments through EOT cranes

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## PROCESS DESCRIPTION (in brief)

### > Ferro Alloys Plant

Generally Ferro Alloys are used for making steels to improve the performance of steel as industrial product.

The Ferro alloys division is comprising of following four types of alloys:

- Ferro-Manganese
- Silico-manganese
- Ferro-silicon

The facilities within the ferro alloy plant is comprise of the following major units:

- Raw material handling system
- Furnace feeding system
- Submerged Arc Furnace
- Furnace tapping and casting
- Product handling system
- Electrical system
- Air Pollution Control System


Conveyor system is provided to feed the day bins for different Ferro Alloys Product. Vibrating feeders are located below each ground hopper, which transport the material on a vibratory screen through conveyor. In order to store the materials in individual bunker a reversible shuttle conveyor is provided on top of bunker.

### **Furnace feeding system**

A conveyor is provided to collect the screened mixture of material from surge hopper on ground level and dump the same in to a feed hopper. The material from this hopper is being collected by a conveyor and transported to the telpher. By way of rotation this telpher get aligned with charging bins and correction bins, which are located around the circumference of this rotation. Pneumatically operated slide gates are provided in each chute. These gates are operated from the central control desk.

### **Submerged arc furnace**

Four submerged arc furnaces of capacity 1x7.5 MVA+1x5.5MVA of Hira Concast unit and 2x7.5MVA capacity of Impex Steel unit, total 04 SAF have been

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considered. The furnaces are equipped with charge feeding hoppers, chutes, transformer, electrodes and Air pollution control system.

#### **Furnace tapping and casting**

The furnaces are tapped at an interval of about two and half hours considering eight numbers of heats per day. The tap hole is opened by oxygen lancing. Skimmer tapping arrangement provided to separate slag and metal. The liquid metal is being cast in moulds or in sand bed. The slag from the furnace is collected, cooled and disposed at suitable area allocated for slag disposal.

#### **Product handling system**

The solid cakes are broken in to smaller pieces manually in to required sizes. Suitable adjustment of breaking can change the product sizes to suit customer's requirement.

The products, classified according to sizes and grades of different Ferro Alloys will be stored in the dedicated storage areas. Sized product will be weighted, packed and kept ready for dispatch.


#### **➤ STEEL MELTING SHOP (SMS):**

In the SMS section scrap and pig iron are charged in Induction Furnace along with DRI in which heat is applied by induction heating and melted by electrical eddy current in a crucible placed in a water cooled alternating current solenoid coil. After achieving the desired composition and temperature, slag is scooped out from the top of hot metal and hot metal is poured into transfer ladle crucible and sent to CCM after addition of requisite amount of Ferro alloys. Induction furnaces are provided with matching billet casters.

In CCM liquid steel is casted to billets.

#### **INVENTORY OF RAW MATERIALS**

The inventories of raw materials used in the process are listed in the table below, which gives details of material stored. It contains maximum one month storage for each substance in process and transferred to unit where it is consumed.

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#### Maximum storage of capacity of raw materials

SL. NO.	Operating Unit	RAW MATERIALS	MAX. STORAGE CAPACITY (Metric Tons/Month)
1.	Ferro Alloys Plant	Mn-ore	20,000 MT
		LAM Coke	12,500 MT
		Quartz	2000 MT
		Dolomite	1000 MT
2.	Induction Furnace	Sponge Iron	7500 MT
		Pig iron	1800 MT
		Scrap	2500 MT
		Ferro Alloy	120 MT
		coal fines @25% ash	25 MT

#### ONSITE EMERGENCY PLAN

In a steel plant, the steel making process involves a number of hazardous processes starting from raw material handling, melting of sponge iron, pig iron, manganese ore, quartz and dolomite, scrap etc. and converting ferro alloys and into steel till the finished products. Also, the by-product plants, utilities & other auxiliary plants use considerable amount of combustible materials and these materials are stored in bulk storages like cylinders, drums, and gas holders etc. in the plant posing major risks.

The detailed study with concern to various possible hazards and their associated processes & equipment's has been identified. The list of these identified hazardous equipment in the plant is given in the following pages. The potential hazards from the above identified equipment and from the various hazardous operations/processes in the plant have been analyzed and the possible causes for occurrence of such hazards, likely consequences and the remedial action required are recommended.

#### Emergency Action Plan:

Emergency Planning begins with the identification and assessment of the principal hazards which are normally fire, explosion and toxic release. With the growing complexity of the process plants, more systematic and searching methods for risk identification and quantification have been developed over the years. Generally the emergencies that occur in process plants are classified into two categories. The one whose effects remain within the boundary limits of the plant is known as On-Site Emergency and the one where the effects go beyond

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the boundary limits is known as Off-Site Emergency. In ESPL, the requirements of the On -Site Emergency Plan are addressed due to fire hazard only.


This On-Site Emergency Plan is prepared for Eloquent Steel Pvt. Ltd in accordance with the guidelines provided by the Ministry of Environment & Forests & Climate Change (MoEF & CC), Govt. of India, covering the various hazardous processes and the bulk storages of hazardous materials etc., in different departments.

## **HAZARD IDENTIFICATION AND DETAILS OF PROPOSED SAFETY SYSTEMS**

### **Identification of Hazards**

Hazard is in fact the characteristics of a system/plant/storage that presents potential for an accident and risk is the probability of occurrence of hazard. Hence hazard identification is of prime significance for the quantification of risk and for cost -effective control of accidents in any industrial installation. Various techniques of predictive hazard evaluation and quantitative risk analysis suggest identification of hazard has very important role in estimation of probability of an undesired event and its consequences on the basis of risk quantification in terms of damage to personnel, property and environment.

Hazards are mostly manifested in the form of fire/ explosion/ toxic release. Each anticipated hazard scenario associated in the unit is described along with its assessment of impact on plant and locality in the following table:

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#### ANTICIPATED HAZARD SCENARIO:

Type of Hazard	Areas	Preventive / Mitigation measures
Fire	SAF & Induction Furnace and Store	Regular monitoring being done to check out the leakage/spillage if any. Fire protection measures (Foam Trolley, DCP cylinder and hydrant system) are provided. Area is as "No Smoking Zone". Sufficient space and barricading are provided with restriction of un-authorized persons movement in the area.
Dust	Raw material handling & storage yard	Raw materials are transported in the trucks with tarpaulin covers. Raw materials like sponge iron and coke are kept under the shed and other like Mn-ore are kept on concreted land with tarpaulin cover. Water sprinkling facility is provided for dust suppression during material handling in the yard. Conveyor belts used for raw material feeding are properly covered. PPEs like nose mask, safety helmet, safety shoes and safety goggles are provided to persons, deployed for working in this area.
Noise	Blower house, Air compressor house, DG & Pump houses.	Equipment's are suitably covered in building with adequate ventilation, Silent type DG sets are provided to attenuate the noise level against outside exposure and area keeps generally unmanned, however working personnel are provided with ear plugs and ear muffs during inspections.
Heat Exposure	Ferro Alloys & SMS	Providing proper PPE like leg guards with shoes, Face shield, leather hand gloves, Leather/Asbestos Aprons, helmets etc. cooling fans, air blower etc.
Acid exposure	Laboratory	Acid and Base used are being kept on isolated place with proper leveling. Personnel handling these chemical being well equipped with PPEs like rubber hand gloves, apron, nose mask, face shield/safety goggles, safety shoes etc. Once any person gets exposed to acid or base the affected parts are thoroughly washed with cold water and necessary first/medical aid is given to the victim.

#### IDENTIFICATION OF MOST CREDIBLE HAZARD SCENARIOS

All the anticipated hazard scenarios associated with the factory (as listed above) are critically analyzed and identified credible scenario is fire hazard which may take place during opening of tape hole of SAF and carrying hot metal in induction Furnace to CCM. Whenever the HSD comes in contact with flame or it may auto ignite at 225 deg. C temperature. Flash point of HSD is 66°C and it is not a flammable liquid. Tank fire spreads vertically taking a conical shape due to rush of air from all directions,

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Since the suitable firefighting system are provided to control emergency situations. On the basis of above consideration, identified fire hazard or the pool fire due to fire hazard in the storage tank is not considered as most credible scenario.

But in case of disaster due to natural calamities a disaster management team will come to action.

### **KEY PERSONNEL**

Key personnel are the directed and nominated people, each having specified responsibilities as a part of a coordinated plan.

The main key personnel are:

- Works Incident Controller.
- Site Incident Controller.
- Works Main Controller.
- Other key personnel who have the key Role to play are senior personnel from all sections e.g. production, maintenance, laboratory, medical, transport, safety, security etc.

### **Role of Key Persons**

#### **Works Incident Controller (WIC)**

The Works Incident Controllers are the departmental heads of respective divisions for SAF and SMS whose duties include the direction of the efforts and lead to onsite emergency response team to control the situation.

Since in the initial stages of emergency, the Works Incident Controller may be called on to take decisions involving the operations of other plants, it is necessary for the person selected to have a thorough knowledge of the overall works situation.

The person working as shift in-charge/manager i. e., an individual having overall control of the works processes for a shift shall work in the authority of WIC when the Works Incident Controller (WIC) may be off-site or affected by the emergency.

#### **Site Incident Controller (SIC)**

He will be available at the factory or in the colony nearby. At any point of time and on being informed about an accident, he has to:

- Intimate the Works Main Controller (WMC) and proceed to the emergency site.
- Take the necessary information from Combat Team Leader (CTL), assess the situation and call Rescue Team Leader (RTL) and Auxiliary Team Leader (ATL).
- Inform Works Main Controller (WMC) regarding the situation.





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- Take necessary steps and provide guidance to Combat Team, Rescue Team, and Auxiliary Team Leaders to mitigate the emergency situation.
- Examine for major emergency shutdown operation activities, decide safe escape route and announce for evacuation to Assembly Point.
- Inform Works Main Controller (WMC) about the status of the situation at regular intervals.

**Works Main Controller (WMC)**

The Works Main Controller is the Director of the unit and is generally available in the factory or reside in the nearby except on tours. On emergency, he can reach work site at any odd hour within 30-45minutes time. In his absence, GM at Plant shall take up his charge as Works Main Controller (WMC)

In the major situation, decisions will have to be taken by Works Main Controller (WMC) by collaboration with the senior managers at works which may affect the whole or a substantial part of the works and senior officers of the outside services as per site situation.

After getting informed of an emergency situation WMC will rush to the emergency site, collect all information from SIC and

- Decide if emergency is to be declared and advise Site Incident Controller (SIC) accordingly and reach Emergency Control Room(ECR).
- Take decision to shut-down the plant if necessary to take up repair and other combating measures.
- Advise Rescue Team Leader (RTL)/Security Gate to blow the siren with appropriate code for declaration of emergency.

**Emergency Siren**

**Twenty Seconds with a pause of Five Seconds for 5 times**

- Advice (Auxiliary Team Leader) ATL for communication to statutory authorities and for mutual aid as required.
- Through Auxiliary Team Leader (ATL) shall ensure constant communication to statutory authorities and to mutual aid partners as required.
- Maintain continuous communication with Site Incident Controller (SIC) to review the situation and assess the possible course of action for emergency operations.
- To declare normalcy at the end of operation and advise Rescue Team Leader (RTL)/Security Gate to blow **"all clear siren"**

**All Clear Siren will be blown for 1 minute continuously.**

- Ensure the record keeping of emergency operations chronologically.

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### **Essential Personnel**

The Works Incident Controller/Main Controller will be supported by a Task Force of suitably trained people. The nature of essential works to be performed is:

- Shutdown of Plants
- Isolation, repairing of the affected equipment /pipeline etc.
- First Aid, and removal of the injured persons to hospital.

### **COMBAT TEAM LEADER**

He is the leader to attend to the emergency and is available in the factory or in the colony at any instant.

On being informed about an accident, he has to:

- Immediately rush to the site and lead the rescue team to control the situation.
- Inform Site incident controller (SIC) about the incident and request him to rush to the spot.
- Give the necessary instructions to the rescue team to combat the situation
- Co-ordinate the activities of team members and combat the emergency, so as to eliminate the root cause of the hazard.
- To arrest the leakage and spillage from various equipment, shut down the concerned equipment.
- Take necessary action to remove unwanted persons from the site of the incident.
- Keep informed about the developments to Site Incident Controller(SIC).

### **RESCUE TEAM LEADER**

He is the person who conducts rescue operations and should be available at any instant. On receiving the information about the incident he has to:

- Rush to site of emergency through safe route.
- Ensure presence of all his team members, availability of firefighting facilities and take necessary action to arrest the fires/leakage of gas.
- Arrange for safe escape of entrapped persons.
- Make necessary arrangements to send the affected persons for immediately medical attention through the medical officer.
- Search for the missing persons on the basis of role call taken by Auxiliary team leader(ATL).
- Give the feedback to the site incident controller (SIC) about the developments.

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### AUXILIARY TEAM LEADER

He is the communication manager for the crisis management. On being informed of the emergency, he should proceed to Emergency Control Room (ECR) and:

- Keep in constant touch with works main controller (WMC) and Site Incident Controller(SIC).
- Inform the Statutory Authorities and District Administration.
- Communicate to mutual Aid Partners, Fire service stations at Asansol
- Send communications to District Hospital Pachim Bardhaman at Asansol for rendering services.
- Inform the relatives of casualties and send them to their residence or hospital as the case maybe.
- Take care of visit of the authorities to the Emergency site.
- Give feed back to work main controller (WMC) about the status with respect to his areas of activities.

### ACTION PLAN FOR RISK AND DISASTER MANAGEMENT


STEP NO	INITIATOR	ACTION TO TAKE
1.	The person noticing the emergency	<ul style="list-style-type: none"> <li>• Inform the Security Gate and concerned Shift-in-charge immediately. Shift-in-charge will inform immediately to Combat Team Leader of concerned area.</li> </ul>
2.	Combat team Leader (CTL)	<ul style="list-style-type: none"> <li>• Inform Site Incident Controller (SIC) and rush to spot and organize his team.</li> <li>• Take charge of the situation, arrange for firefighting and medical first-aid available at site.</li> <li>• To start combating, shut-down equipments, arrest the leakage of gas/fire.</li> </ul>
3.	Site Incident Controller (SIC)	<ul style="list-style-type: none"> <li>• Inform works Main Controller (WMC) and rush to emergency site.</li> <li>• Discuss with Combat Team Leader (CTL), assesses the situation and call the Rescue Team Leader (RTL) &amp; Auxiliary Team Leader (ATL).</li> <li>• Organize the Rescue Team and Auxiliary Team and send the rescue Team to site.</li> <li>• Arrange to evacuate the unwanted persons and call for additional help.</li> <li>• Pass information to the works main controller (WMC) periodically about the position at site.</li> </ul>

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4.	Works main Controller (WMC)	<ul style="list-style-type: none"> <li>• Rush to emergency site and observe the ongoing activities.</li> <li>• Take stock of the situation in consultation with the SIC.</li> <li>• Move to Emergency Control Room.</li> <li>• Take decision on declaration of emergency.</li> <li>• Advise Auxiliary Team Leader to inform the statutory authorities and seek help of mutual aid from partners as required.</li> <li>• Decide on declaration of cessation of emergency.</li> <li>• Ensure that the emergency operations are recorded chronologically.</li> </ul>
5.	Rescue Team Leader (RTL)	<ul style="list-style-type: none"> <li>• Consult with Site incident controller (SIC) and organize his team with amenities to arrest firefighting and medical treatment.</li> <li>• Rush to Emergency Site through safe route along with the team members.</li> <li>• Arrange to set off the fire by firefighting equipments and hydrant points to arrest the fire or to evacuate the area.</li> <li>• Shift the injured persons to hospital by ambulance after providing necessary first aid.</li> <li>• To inform the auxiliary team Leader for necessary help from mutual aid Partners.</li> </ul>
6.	Auxiliary Team (ATL)	<ul style="list-style-type: none"> <li>• On being directed by works main Controller (WMC) informs about the emergency to statutory authorities.</li> <li>• Seek help of Mutual Aid partners and Coordinate with Mutual Aid partners to render their services.</li> <li>• Arrange to inform the relatives of casualties.</li> <li>• Take care of visit of the authorities to the emergency site.</li> </ul>
7.	Team members	Each of the team members should follow the instruction of concerned team leader to mitigate the emergency.

#### **Salient Hour Command Structure**

- The Senior Officers/ Key Persons of the plant remain during day time i.e. 8A.M. to 8P.M. Hence the timing of 8P.M. to 8A.M. is considered as silent hour that to 10P.M. to 8A.M. is the crucial time. Still each and every unit/section of the plant is headed by shift in charge in the rank of Officer, Engineer or Sr. Engineer or Asst. Manager, who shall be responsible for handling the emergency. The other supporting/services and emergency sections like Fire Service, Ambulance, Security, Personnel, Water Supply, Transport departments etc. are also running for 24 hours shift wise with shift in charge and crew to handle emergency during the silent hour till main command personnel arrives. However, most of the key persons of the main command structure reside in nearby area and can reach within minimum time.
- The command structure of the silent hour shall be same as during normal hour, however, during the silent hour, the operation Shift-in charge of the concerned area where the fire or leakage of gas has taken place, shall act as SIC-in-charge, till the arrival of actual designation members.

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## **ACTIVATION & CLOSING PROCEDURE FOR ON-SITE EMERGENCY ACTIVATION PROCEDURE**

The person noticing the incident of fire or leakage of gas, shall inform about the location & nature of fire to the combat team Leader (CTL), security Gate and concerned Shift-in-charge.

Combat team Leader (CTL) shall inform site incident controller (SIC) and shall rush to the site immediately. He shall arrange for firefighting and first aid available at site. He shall arrange to take necessary steps to eliminate the root cause of fire.

Site incident controller (SIC) on getting information shall inform the WMC and reach the site at the earliest. He shall take over the charge and shall direct Rescue Team Leader (RTL) to carry out rescue operations including firefighting and medical attention. Site incident controller (SIC) shall co-ordinate with Combat team leader (CTL) to eliminate the root cause of fire

- Work main controller (WMC), on arrival at site shall take stock of the situation from site incident controller (SIC) and then rush to emergency control room (ECR) to declare emergency on the basis of assessment made by (Site incident controller (SIC). He shall give direction to the security gate/ (Rescue Team Leader) RTL to activate siren.
- Twenty seconds with a pause of five seconds for 5 times for fire Accident.
- Thirty seconds with a pause of five seconds for 5 times for leakage of gas.
- Rescue Team Leader (RTL) shall mobilize fire-fighting and medical resources to site and shall assist (Site incident Controller) SIC.
- Auxiliary Team Leader (ATL) shall take charge of Emergency Control Room (ECR), shall ensure smooth operation of ECR and shall inform relatives of casualties. Informs mutual Aid partners and ensures their arrival at site if required.
- Auxiliary Team Leader (ATL) informs statutory authorities and district administration regarding emergency suitably and coordinates their visit at site.
- Works main controller (WMC) coordinates and keeps the track of all the activities at site and off the site and arranges the recording of the activities in a chronological manner for review of the Onsite emergency Plan.

### **FACILITIES AVAILABLE FOR ON-SITE EMERGENCY PLAN:**

#### **Assembly Point**

In any emergency it will be necessary to evacuate people from affected zones or the zones likely to be affected, to a safer place. Safer places are identified and designated as Assembly Points. Taking the area and hazard zones into consideration four assembly points have been marked in four different areas these are:

- 1- Near Administrative Building (Assembly Point-1)
- 2- Near OHC Area (Assembly Point-2)
- 3- Between SMS & Ferro Metal Yard (Assembly Point-3)

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	<b>Risk and Disaster Management Plan</b>	

#### 4- Near Plant Main Gate (Assembly Point-4)

Above the points are well connectable to the plant road and facilities like drinking water, temporary shelter and first aid is available there. These points are displayed at different places inside plant and near administrative building.

#### **Escape routes:**

Escape routes are those that, allow reasonably safe passage of persons from the work area to assembly point during emergency situation. These routes would be different depending on wind direction, Fire and explosion scenario. Escape routes are ear marked on the drawings as well as on the routes, which will facilitate all for safe evacuation.

#### **Emergency Control Room (ECR):**

The emergency Control Room is a place from which all emergency management operation are directed and coordinated. Also it is the place from where all communication will be established, with outside agencies and district authority also.

#### Facilities Available at ECR:

- Plant general Layout, ear marked with hazard zone, Assembly points and escape routes.
- List of working personnel in various shifts and general shift.
- Mobile telephone Nos., of emergency command structure personnel.
- Emergency command structure.
- Rhythmical siren code for different emergency situation.
- Relevant material safety data sheet.
- Emergency Control Room Register.
- First Aid Box with antidotes.
- Required personal protective equipment's with self-carrying breathing apparatus.

#### **Fire Extinguishers**

Required types of fire extinguishers are provided at different locations of the plant.

#### **Fire Buckets**


Fire buckets filled with dry sand are provided in different locations of the plant.

#### **Siren**

Company Has Siren/ hooter arrangement, which can be activated manually during fire related emergency.

#### **Communication**

Public address system and EPABX telephone are available for effective communication inside the plant. Telephone directory is available in all the departments.

 <b>SHAKAMBHARI GROUP</b>	<b>M/S Eloquent Steel Pvt. Limited,</b> <b>(Formerly M/s Hira Concast Ltd. &amp; M/s Impex Steel Ltd.)</b> Vill-Nakrajoria, PO. & PS: Salanpur, Dist: Paschim Burdwan, (WB)	Page No. 17
	<b>Risk and Disaster Management Plan</b>	

### **Dispensary**

An organized First-aid centre with ambulance, stretchers, oxygen cylinder etc. is placed inside the factory. The First-aid centre is manned by one Doctor/pharmacists, and one attendant. An external Ambulance service is hired to meet emergency situation. The first-aid center is manned round the clock. In the case of emergency, affected employees are being referred to nearby Govt. hospital at Pithakeyari Block Hospital or Asansol as required and in serious case to the hospital tied up with the company.

### **First Aid Box**

Company has provided First Aid boxes with required first aid medicines at different locations inside the plant to address minor injuries. First aid boxes are checked by the pharmacists once in a month & medicines are filled/replaced. The first aid boxes are provided in the following locations:

SAF, Administrative building, SMS and Security Office.

## **DISASTER MANAGEMENT PLAN**

### **Introduction:**

Disaster may be defined as a sudden occurrence of incidence in such a magnitude as to affect the normal pattern of life inside or in the vicinity of plant which has the potential of causing extensive injury or loss of life or damage to property and tend to cause disruption inside/outside the site.

Hazardous substances are being handled, generated and stored in increasing quantities a various manufacturing facilities in recent years. This has posed a serious risk for the plant, persons and the environment encompassing thereof. The disasters following incidents in some industrial units handling hazardous substances in the last 2 to 3 decades has made it imperative for all concerned to device measures and implement them immediately and effectively to mitigate their adverse effects, if not, to totally eliminate them. The need to protect human being, the flora and fauna as well as our bio-diversity against these potential dangers has prompted the government for promulgation of various statutory provisions for preparation of hazard mitigation plans based on their risk impacts.

The Factories (Amendment) Act 1987 and manufacture storage and Import of Hazardous Chemical Rules- 1989 has provided regulation making mandatory for all owners of hazardous undertakings to prepare for their Onsite Emergency Plan in a pragmatic way and keep those well re-harassed for rapid action in actual crisis situation.

The goal of DMP is the effective containment of the emergency situation by proper mitigative action at the place of occurrence, cautioning people in adjoining affected localities; prompt rescue and provisions of medical aid to affected persons and communication to civil authorities for rushing in help from outside.

This objective being achieved by defining the functions and responsibilities of all concerned managerial, operational and supporting services department personnel with

 SHAKAMBHARI GROUP	<b>M/S Eloquent Steel Pvt. Limited,</b> (Formerly M/s Hira Concast Ltd. & M/s Impex Steel Ltd.) Vill-Nakrajoria, PO. & PS: Salanpur, Dist: Paschim Burdwan, (WB)	Page No. 18
	<b>Risk and Disaster Management Plan</b>	

respect to detection and effective implementation of emergency action plan.

#### **Objectives of Disaster Management Plan (DMP):**

The objectives of DMP is to describe and spell out industry's emergency response actions that requires to be initiated to deal with various emergencies that could occur at the facility, with the response organization structure deployed in the shortest possible time. Thus the objective of emergency response plan can be summarized as:

- ✓ Rapid control and containment of the hazardous situation.
- ✓ Minimization of the risk and impact of event / accident.
- ✓ Effective rehabilitation of the affected persons and prevention of damage to property.

#### **Elements of DMP:**

In order to effectively achieve the above mentioned objectives, the critical elements of the DMP are:

- Reliable and early detection of an emergency and careful planning.
- The command, co-ordination, and response organization structure along with clearly demarcated line and staff function.
- The availability of resources for handling emergencies.
- Appropriate emergency response actions forecasted with least margin of error.
- Effective notification and communication facilities.
- Proper training of the concerned personnel.
- Regular review and updating of the DMP.

The DMP has been opened up with a foreword duly signed by the plant-in-charge.

#### **Responsibility of Implementation of DMP:**

Responsibility for establishing and maintaining an Emergency Preparedness Plan/DMP belongs to the Plant-in-charge. He is responsible for the control of the plan, and for ensuring that the plan is applicable and implementing procedures are operated during emergency situation and are reviewed and revised annually.

As a member of top management he is responsible for the training of personnel to ensure that adequate emergency response capabilities are maintained in accordance with the plan. He is also responsible for ensuring the regular conduct of drills and other measures, as outlined in the DMP.





**M/S Eloquent Steel Pvt. Limited,**  
**(Formerly M/s Hira Concast Ltd. & M/s Impex Steel Ltd.)**

Vill-Nakrajoria, PO. & PS: Salanpur, Dist: Paschim Burdwan, (WB)

**Risk and Disaster Management Plan**

**EMERGENCY COMMAND STRUCTURE**

Works Main Controller (WMC)  
 Mr. K Venkateswara Rao - Director



Site Incident Controller (SIC)  
 Mr. Kartick Chandra Pan (GM-Ferro)  
 Mr. Jai Prakash Singh (GM-SMS)



<p>Auxiliary Team Leader (ATL)</p> <ol style="list-style-type: none"> <li>1. Mr. M. Chattopadhaya (GM, HR &amp; Admin)</li> <li>2. Mr. T. N. Patro (GM-Ferro, Production)</li> <li>3. Mr. Sanjay K Singh (Sr. Manager – SMS, Production)</li> <li>4. R. K. Mishra (AGM-EHS)</li> </ol>	<p>Combat Team Leader (CTL)</p> <ol style="list-style-type: none"> <li>1. Mr. Abhijit Ghosh (Manager – Ferro, Mechanical)</li> <li>2. Mr. Chandan Chakraborty (Manager – Ferro, Electrical)</li> <li>3. Mr. Anand K Burnwal (Manager – SMS, Maintenance)</li> </ol>	<p>Rescue Team Leader (RTL)</p> <ol style="list-style-type: none"> <li>1. Mr. Partha Chakraborty (HoD, HR &amp; Admin)</li> <li>2. Mr. Jagannath Bera (Asst. Safety Officer)</li> </ol>
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<p>Members</p> <ol style="list-style-type: none"> <li>1. Mr. Abhay Srivastava (Ferro Production)</li> <li>2. Mr. Yogendra Kumar (Ferro Production)</li> <li>3. Mr. Arun K Yadav (Ferro Production)</li> <li>4. Mr. Munna Hela (Ferro Production)</li> <li>5. Mr. Suraj Agarwal (Despatch)</li> <li>6. Mr. Surendra Mishra (Security)</li> </ol>	<p>Members</p> <ol style="list-style-type: none"> <li>1. Mr. Parimal Bouri (Ferro Mechanical)</li> <li>2. Mr. Md. Aslam (Ferro Mechanical)</li> <li>3. Mr. Chanchal Kundu (Ferro Electrical)</li> <li>4. Mr. Rajesh K Nandi (SMS Maintenance)</li> <li>5. Mr. Jiten Barman (SMS Electrical)</li> </ol>	<p>Members</p> <ol style="list-style-type: none"> <li>1. Mr. Niraj Tiwari (HR)</li> <li>2. Mr. Sanjeev K Singh (Administration)</li> <li>3. Mr. Rahul Chatterjee (Administration)</li> <li>4. Mr Prasenjit Bouri (Store)</li> <li>5. Mr. Arun Paul (Security)</li> </ol>
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**Risk and Disaster Management Plan**

**TELEPHONE NUMBERS OF EMERGENCY COMMAND TEAM**

Sl No.	Name	Position in Team	Mob. Number
1	Mr. K Venkateswara Rao	Works Main Controller (WMC)	9963237076
2	Mr. Kartick Chandra Pan	Site Incident Controller (SIC)	9378363100
3	Mr. Jai Prakash Singh		9832889395
4	Mr. M. Chattopadhaya		Auxiliary Team Leader (ATL)
5	Mr. T. N. Patro	Auxiliary Team Leader (ATL)	9233340408
6	Mr. Sanjay Kumar Singh		6204366508
7	Mr. R. K. Mishra		8695621900
8	Mr. Abhijit Ghosh		8170003749
9	Mr. Chandan Chakraborty	Combat Team Leader (CTL)	8373819925
10	Mr. Anand K Burnwal		9572564278
11	Mr. Partha Chakraborty		8250708382
12	Mr. Jagannath Bera	Rescue Team Leader (RTL)	9775293539

**EMERGENCY CONTACT NUMBERS:**

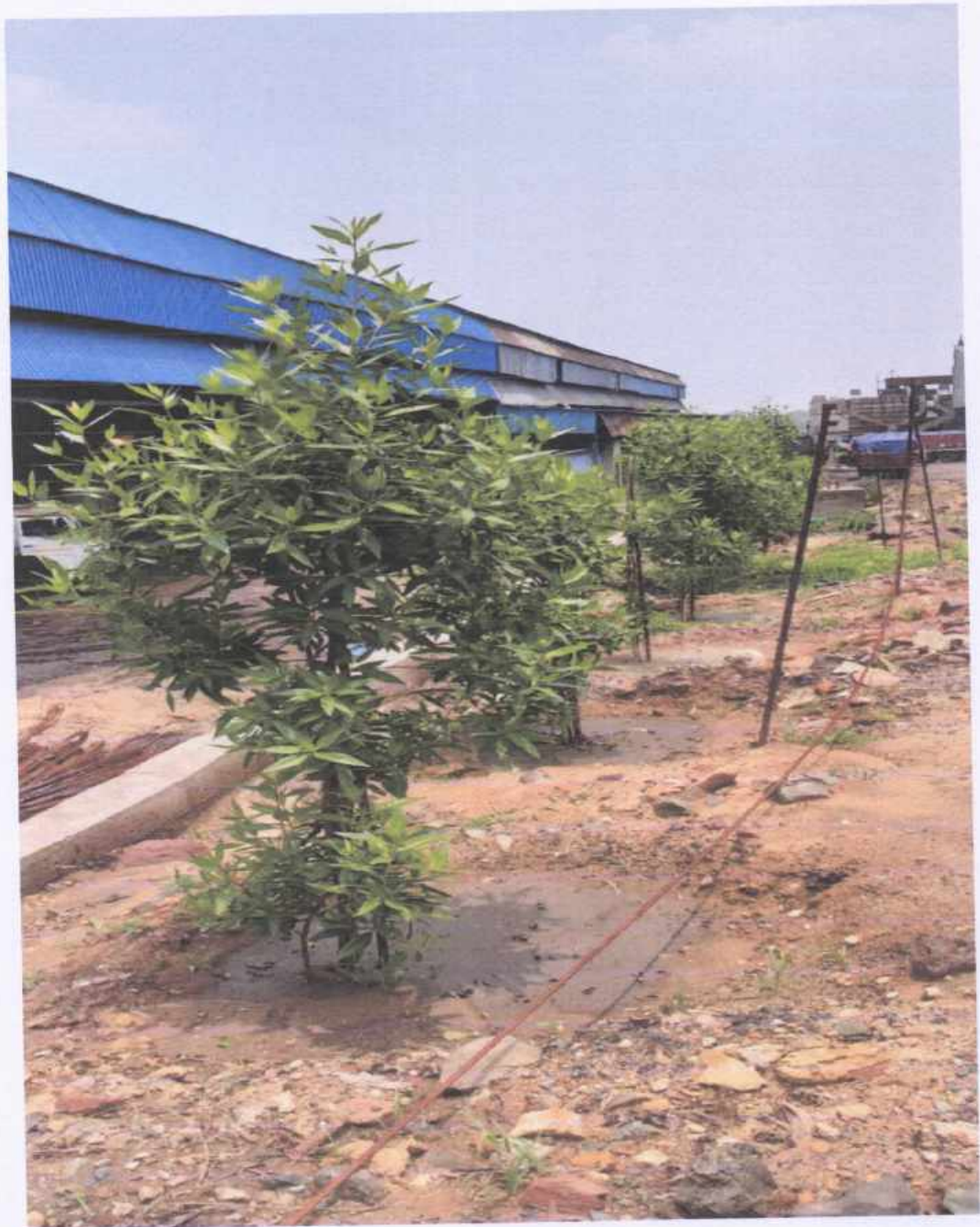
Sl No.	Name	Mob. Number	PAX. No.
1	Factory Main Gate	7605089199	
2	Factory Security In-charge	7605089199	
3	Factory Medical Unit/Ambulance	7605089103	
4	Govt. Ambulance Service	101	
5	Factory Safety officer	7605089168	
6	District Magistrate Paschim Burdwan	-	0341-2554545
7	Superintendent of Police	-	0341-2257962
8	Additional Superintend of Police, Asansol	-	0341-2252640
9	Asansol Police Control	-	0341-2203287
10	Chief Medical Officer	9474782394	
11	Sub Divisional Hospital, Asansol	-	0341-2252176
12	ADM (G),	-	0341-2253010
13	OC Disaster Management	8777860955	
14	Dy. Chief Inspector of Factories	9433649808	0341-2252644
15	Sub Divisional Officer, Asansol		0341-2252222
16	Fire Station Raghathpur	8584027313/314	03251-203550
17	Fire Station Asansol	-	0341-2304506
18	Asansol District Hospital	-	0341-2304040
19	Pithaikeyari Block Hospital	7547945591	-
20	Pithaikeyari, BMHO	9547687716	-
21	Police Station Salanpur	-	0341-2531118

# ANNEXURE-8

**Annexure-8**

**PLANTATION INSIDE THE PLANT BY INDIGENOUS SPECIES**









# ANNEXURE-9



# WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan'

Bldg. No. - 10A, Block - LA, Sector-III  
Salt Lake City, Kolkata-700 098



apply for renewal of  
consent 60 (Sixty) days  
before expiry

Consent Letter Number : CO 110/24

Memo Number : 1530 - WPCB/Recd (Bsm)/cont (SB1)/07

Date : 28/06/18

## Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and  
Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to :

M/s Eloquent Steel Pvt Ltd (Formerly known as M/s Impex Steel Ltd)

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at Vill - Nakrajoria

P.O. + P.S. - Salanpur, Dist - Paschim Bardhaman

(Detailed address of the manufacturing unit)

for a period from up to 30.06.2023.

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.



For and on behalf of the State Board

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

28/06/18

## ANNEXURE

Consent to M/s. Eloquent Steel Pvt. Ltd. (Formerly known as M/s. Impex Steel Ltd.)  
 for its unit at Vill. - Nakrajaria  
P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman

**Conditions :**

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Ferro Manganese	2625 MT
02	Silico Manganese	1875 MT
03	M.S. Ingot	4417 MT
04		
05		
06		
07		
08		
09		
10		
11		
12		

02. The *Applicant* shall remain responsible for quantity and quality of liquid effluent and air emissions.
03. Daily discharge of industrial liquid effluent shall not exceed ..... KL.
04. Daily discharge of domestic liquid effluent shall not exceed ..... 04 ..... KL.
05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed ..... KL.
06. The *Applicant* shall discharge liquid effluent to ..... Soak pit ..... (place of discharge) through ..... 01 ..... nos. outlets / outfalls.
07. To bring into any altered or new outlet/outfall or to change the place of discharge, the *Applicant* shall have to inform the Board and obtain prior permission of the Board in this effect.
08. The *Applicant* shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the *Standard* as given in Table-I in page 03.

(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)


Continued.....

Consent to M/s Eloquent Steel Pvt Ltd (Formerly known as M/s Iron Steel Ltd.)  
 for its unit at Vill. - Nakrajoria  
P.O. + P.S. - Salarpur, Dist. - Paschim Bardhaman

11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to facilitate identification.
13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below :

Table-II

Stack No.	Stack height from G.L. (in mts.)	Stack attached to (sources and control system. if any):	Volume Nm <sup>3</sup> /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed					Frequency of emission sampling
					SPM (mg/Nm <sup>3</sup> )	CO (%v/v)				
S-1	35	02 Nos. SEAF (2 x 7.5 MVA)	—	—	150	—	—	—	—	Half yearly
S-2	30	02 Nos. Induction Furnace (2 x 7 MT/charge)	—	—	150	—	—	—	—	Yearly
S-3	7	D.G. Set 250 KVA	—	—	150	1	—	—	—	-Do-
S-4										
S-5										
S-6										
S-7										
S-8										
S-9										
S-10										

  
 (Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)



Consent to <sup>(5)</sup> M/s. Eloquent Steel Pvt Ltd. (Formerly known as M/s. Im Steel Ltd) Vill. - Nakrajoria  
 for its unit at P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman.

14. The Applicant shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the State Board's staff as well as State Board's authorised agencies.
15. The Applicant shall observe the following fuel consumption pattern :-

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01			
02			
03			
04			
05			

16. The Applicant shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below :-

Type of waste	Quantity	Treatment	Disposal
Fe-Mn Slag	250 MT/month	—	Recycled
Sl-Mn Slag	1400 MT/month	—	Road Development

17. The Applicant shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :-

Time	Limit in dB(A) $L_{eq}$
Day Time (06 a.m. to 09 p.m.)	65
Night Time (09 p.m. to 06 a.m.)	55

18. The Applicant shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
19. The Applicant shall bring about at least 33% of the available open land under the green coverage / plantation.
20. The Applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the Applicant to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the Applicant shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
21. The Applicant shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
22. The Applicant shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
23. The Applicant shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

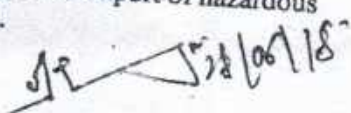
(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Continued.....

Consent to M/s Eloquent Steel Pvt Ltd. (Formerly known as  
M/s Impex Steel Ltd.) Vill. - Nokrajaria  
 for its unit at P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman

24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The Applicant shall get the samples of hazardous wastes/leachates analysed at least once in ..... from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. The Applicant shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
27. The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
30. The Application shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
32. The Applicant shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The Applicant Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
5. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
5. The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

#### Additional Conditions

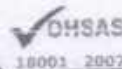
  
 (Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

# **ANNEXURE-10A**



# ENVIROCHECK

Recognised by MoEF&CC, WBPCB, ISP/CB & OSP/CB  
Accredited by NABL (ISO/IEC 17025:2017)  
Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## NOISE MONITORING REPORT

**Eloquent Steel Pvt. Ltd. (Formerly Known as – Impex Steel Ltd.)**  
**Vill. – Nakrajoria, P.O + P.S – Salanpur, District – Paschim Burdwan**

MONITORED BY :  
ENVIROCHECK  
189, Rastraguru Avenue,  
Calcutta - 700 028

Report No : 396A/EC/M/N/19-20

Sampling Locations :	Near Administrative Building	Date of Study :	14.02.2020
Category :	Ferro Alloy and SMS Unit	Day time :	6 AM to 10 PM

Time (hrs.)	$L_{min}$	$L_{max}$	$L_{eq}$	Day time $L_{eq}$
6:00 AM to 7:00 AM	65.9	70.3	68.30	68.84
7:00 AM to 8:00 AM	68.3	76.2	73.84	
8:00 AM to 9:00 AM	67.2	72.5	71.36	
9:00 AM to 10:00 AM	68.2	75.5	73.23	
10:00 AM to 11:00 AM	69.5	70.2	69.86	
11:00 AM to 12:00 PM	63.7	66.2	65.98	
12:00 PM to 1:00 PM	65.9	69.7	67.78	
1:00 PM to 2:00 PM	66.1	70.2	67.16	
2:00 PM to 3:00 PM	67.5	71.6	69.50	
3:00 PM to 4:00 PM	68.6	70.1	68.61	
4:00 PM to 5:00 PM	63.4	67.2	65.98	
5:00 PM to 6:00 PM	60.5	63.7	62.80	
6:00 PM to 7:00 PM	62.9	67.9	64.97	
7:00 PM to 8:00 PM	61.7	66.2	63.90	
8:00 PM to 9:00 PM	64.5	66.7	65.16	
9:00 PM to 10:00 PM	59.2	61.9	60.10	

Date of Study :	14.02.2020 to 15.02.2020	Night time :	10 PM to 6 AM
-----------------	--------------------------	--------------	---------------

Time (hrs.)	$L_{min}$	$L_{max}$	$L_{eq}$	Night time $L_{eq}$
10:00 PM to 11:00 PM	55.6	60.2	58.31	57.14
11:00 PM to 12:00 AM	45.9	59.2	49.83	
12:00 AM to 1:00 AM	43.1	53.8	51.90	
1:00 AM to 2:00 AM	42.8	52.6	48.65	
2:00 AM to 3:00 AM	51.3	60.2	56.53	
3:00 AM to 4:00 AM	52.8	61.3	58.86	
4:00 AM to 5:00 AM	54.9	62.8	60.44	
5:00 AM to 6:00 AM	56.2	63.5	61.23	

$L_{min}$  : Minimum Noise level

$L_{max}$  : Maximum Noise level

$L_{eq}$  : Equivalent sound energy

Compiled by : (Signature)  
Dr. Ajoy Paul

Envirocheck Seal  
Date : 26.02.2020

Certified by : (Signature)  
Dr. S. B. Chowdhury



H.O. : 83/B, Rastraguru Avenue, Kolkata - 700028 ( 033-25792891/25497490, Fax : 033-25299141  
Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 ( 033-25792889  
Email : envcheck@cal2.vsnl.net.in/envirocheck50@gmail.com / Website : www.envirocheck.org  
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi  
Overseas : • UAE • Qatar • Netherlands





# ENVIROCHECK

Recognized by MoEF&CC, WHPCB, JSPCB & OSPCB  
Accredited by NABL (ISO/IEC 17025:2017)  
Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## NOISE MONITORING REPORT

**Eloquent Steel Pvt. Ltd. (Formerly Known as – Impex Steel Ltd.)**  
**VIII. – Nakrajoria, P.O + P.S – Salanpur, District – Paschim Burdwan**

**MONITORED BY :**  
ENVIROCHECK  
189, Rastraguru Avenue,  
Calcutta - 700 028

Report No : 396A/EC/M/N/11/19-20

Sampling Locations :	Near Main Gate	Date of Study :	14.02.2020
Category :	Ferro Alloy and SMS Unit	Day time :	6 AM to 10 PM

Time (hrs.)	$L_{min}$	$L_{max}$	$L_{eq}$	Day time $L_{eq}$
6:00 AM to 7:00 AM	68.2	74.6	72.49	68.63
7:00 AM to 8:00 AM	66.7	70.8	68.35	
8:00 AM to 9:00 AM	66.2	71.8	69.14	
9:00 AM to 10:00 AM	67.9	75.3	73.02	
10:00 AM to 11:00 AM	66.1	73.8	71.47	
11:00 AM to 12:00 PM	65.9	72.8	70.60	
12:00 PM to 1:00 PM	64.7	72.1	69.82	
1:00 PM to 2:00 PM	64.9	68.6	65.96	
2:00 PM to 3:00 PM	63.9	70.8	65.15	
3:00 PM to 4:00 PM	60.2	65.6	63.50	
4:00 PM to 5:00 PM	64.1	67.9	65.78	
5:00 PM to 6:00 PM	60.7	68.1	66.89	
6:00 PM to 7:00 PM	60.7	65.7	64.15	
7:00 PM to 8:00 PM	61.6	67.2	65.78	
8:00 PM to 9:00 PM	60.2	62.8	61.50	
9:00 PM to 10:00 PM	61.8	68.5	64.45	

Date of Study :	14.02.2020 to 15.02.2020	Night time :	10 PM to 6 AM
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Time (hrs.)	$L_{min}$	$L_{max}$	$L_{eq}$	Night time $L_{eq}$
10:00 PM to 11:00 PM	58.9	60.5	59.58	56.43
11:00 PM to 12:00 AM	53.5	59.9	56.90	
12:00 AM to 1:00 AM	45.9	56.2	53.78	
1:00 AM to 2:00 AM	42.9	55.3	53.28	
2:00 AM to 3:00 AM	41.7	53.2	50.10	
3:00 AM to 4:00 AM	51.7	53.5	52.89	
4:00 AM to 5:00 AM	57.9	60.2	58.58	
5:00 AM to 6:00 AM	59.2	61.3	60.38	

$L_{min}$  : Minimum Noise level

$L_{max}$  : Maximum Noise level

$L_{eq}$  : Equivalent sound energy

Compiled by : (Signature)  
Dr. Ajoy Paul

Envirocheck Seal  
Date : 26.02.2020

Certified by : (Signature)  
Dr. S. B. Chowdhury



H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 [ 033-25792891/25497490, Fax : 033-25299141  
Laboratory : 189, 190 & 192 Rastraguru Avenue, Kolkata - 700028 [ 033-25792889  
Email : envcheck@cal2.vsnl.net.in/envirocheck50@gmail.com / Website : www.envirocheck.org  
Branch Office : • Siliguri • Haldia • Durgapur • Ghanbed • Gangtek • Port Blair • Dohradun • New Delhi  
Overseas : • UAE • Qatar • Netherlands



# ENVIROCHECK

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Accredited by NABL (ISO/IEC 17025:2017)  
Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## NOISE MONITORING REPORT

**Eloquent Steel Pvt. Ltd. (Formerly Known as – Impex Steel Ltd.)**  
**Vill. – Nakrajoria, P.O + P.S – Salanpur, District – Paschim Burdwan**

**MONITORED BY :**  
ENVIROCHECK  
189, Rastraguru Avenue,  
Calcutta - 700 028

Report No : 396A/EC/M/N/IV/19-20

Sampling Locations :	Near MMC Building (Back side of the Plant)	Date of Study :	14.02.2020
Category :	Ferro Alloy and SMS Unit	Day time :	6 AM to 10 PM

Time (hrs.)	$L_{min}$	$L_{max}$	$L_{eq}$	Day time $L_{eq}$
6:00 AM to 7:00 AM	64.2	73.5	70.97	70.92
7:00 AM to 8:00 AM	66.3	74.9	72.45	
8:00 AM to 9:00 AM	67.9	73.5	71.55	
9:00 AM to 10:00 AM	65.9	70.3	68.30	
10:00 AM to 11:00 AM	68.3	76.2	73.84	
11:00 AM to 12:00 PM	67.2	72.5	71.36	
12:00 PM to 1:00 PM	68.2	75.5	73.23	
1:00 PM to 2:00 PM	69.5	70.2	69.86	
2:00 PM to 3:00 PM	63.7	66.2	65.98	
3:00 PM to 4:00 PM	65.9	69.7	67.78	
4:00 PM to 5:00 PM	66.1	70.2	67.16	
5:00 PM to 6:00 PM	65.9	69.2	67.12	
6:00 PM to 7:00 PM	63.1	74.8	72.07	
7:00 PM to 8:00 PM	68.9	74.2	72.31	
8:00 PM to 9:00 PM	65.4	73.5	71.12	
9:00 PM to 10:00 PM	66.1	72.8	70.63	

Date of Study :	14.02.2020 to 15.02.2020	Night time :	10 PM to 6 AM
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Time (hrs.)	$L_{min}$	$L_{max}$	$L_{eq}$	Night time $L_{eq}$
10:00 PM to 11:00 PM	57.2	61.4	59.79	61.03
11:00 PM to 12:00 AM	59.1	60.2	59.68	
12:00 AM to 1:00 AM	52.5	58.4	53.58	
1:00 AM to 2:00 AM	51.4	56.2	60.35	
2:00 AM to 3:00 AM	50.2	55.1	53.30	
3:00 AM to 4:00 AM	60.5	68.2	65.87	
4:00 AM to 5:00 AM	59.9	65.8	63.78	
5:00 AM to 6:00 AM	59.1	64.3	62.44	

$L_{min}$  : Minimum Noise level

$L_{eq}$  : Equivalent sound energy

Compiled by : (Signature)  
Dr. Ajoy Paul

Envirocheck Seal  
Date : 26.02.2020



Certified by : (Signature)  
Dr. S. B. Chowdhury

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 ( 033-25792891/25497490, Fax : 033-25299141 )  
Laboratory : 189, 190 & 192 Rastraguru Avenue, Kolkata - 700028 ( 033-25792889 )  
Email : envcheck@cal2.vsnl.net.in/envirocheck50@gmail.com / Website : www.envirocheck.org  
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Overseas : • UAE • Qatar • Netherlands



# ENVIROCHECK

Recognised by MoEF&C, WBPCB, ISPCB & OSPCB  
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Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## NOISE MONITORING REPORT

**Eloquent Steel Pvt. Ltd. (Formerly Known as – Impex Steel Ltd.)**  
**Vill. – Nakrajoria, P.O + P.S – Salanpur, District – Paschim Burdwan**

**MONITORED BY :**  
ENVIROCHECK  
189, Rastraguru Avenue,  
Calcutta - 700 028

Report No : 396A/EC/M/N/III/19-20

Sampling Locations :	Nakrajoria Village (1 km Distance from Plant)	Date of Study :	14.02.2020
Category :	Ferro Alloy and SMS Unit	Day time :	6 AM to 10 PM

Time (hrs.)	$L_{min}$	$L_{max}$	$L_{eq}$	Day time $L_{eq}$
6:00 AM to 7:00 AM	45.3	51.4	49.34	52.78
7:00 AM to 8:00 AM	46.7	52.9	50.82	
8:00 AM to 9:00 AM	47.3	53.9	51.75	
9:00 AM to 10:00 AM	48.4	52.7	51.06	
10:00 AM to 11:00 AM	46.7	53.4	51.23	
11:00 AM to 12:00 PM	51.2	55.9	53.16	
12:00 PM to 1:00 PM	52.2	56.5	54.86	
1:00 PM to 2:00 PM	49.9	52.4	51.33	
2:00 PM to 3:00 PM	50.7	53.9	52.59	
3:00 PM to 4:00 PM	51.7	55.8	53.22	
4:00 PM to 5:00 PM	50.8	54.6	52.10	
5:00 PM to 6:00 PM	52.6	55.3	54.16	
6:00 PM to 7:00 PM	53.9	55.6	54.83	
7:00 PM to 8:00 PM	50.2	56.1	54.08	
8:00 PM to 9:00 PM	50.0	55.3	53.41	
9:00 PM to 10:00 PM	51.4	53.2	52.39	

Date of Study :	14.02.2020 to 15.02.2020	Night time :	10 PM to 6 AM
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Time (hrs.)	$L_{min}$	$L_{max}$	$L_{eq}$	Night time $L_{eq}$
10:00 PM to 11:00 PM	41.6	46.2	44.48	43.53
11:00 PM to 12:00 AM	40.9	44.6	43.13	
12:00 AM to 1:00 AM	40.0	43.4	42.02	
1:00 AM to 2:00 AM	39.9	42.5	41.39	
2:00 AM to 3:00 AM	41.6	45.9	44.26	
3:00 AM to 4:00 AM	43.8	47.5	46.03	
4:00 AM to 5:00 AM	40.2	46.9	43.78	
5:00 AM to 6:00 AM	43.8	51.6	45.31	

$L_{min}$  : Minimum Noise level

$L_{max}$  : Maximum Noise level

$L_{eq}$  : Equivalent sound energy

Compiled by : (Signature)  
Dr. Ajoy Paul

Envirocheck Seal  
Date : 26.02.2020



Certified by : (Signature)  
Dr. S. B. Chowdhury

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 [ 033-25792891/25497490, Fax : 033-25299141  
Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 [ 033-25792889  
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# **ANNEXURE-10B**



# ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB  
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Certified by ISO 9001:2015, ISO 14001 : 2015 & OHSAS 18001:2007



FORMAT NO. : ENV/FM/56

## TEST REPORT

1.	Name of the Industry / Project	:	Eloquent Steel Pvt. Ltd. (Formerly Known as - Impex Steel Ltd.)
2.	Address	:	Vill. - Nakrajoria, P.O + P.S - Salanpur, District - Paschim Burdwan
3.	Type of Industry	:	Ferro Alloy and SMS Unit
4.	Sampling Plan & Procedure	:	ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	:	No
6.	Type of Sample	:	Work Zone Noise
7.	Sample ID	:	451A/EC/M/N/I/19-20
8.	Date of Study	:	14/02/2020
9.	Reporting Date	:	25/02/2020
10.	Method No.	:	IS: 9989 - 1981
11.	Time of Duration of Noise	:	20 Minutes
12.	Height from Ground Level	:	4 feet
13.	Sample Monitoring by	:	Mr. Kamallesh Das

### RESULT OF NOISE LEVEL STUDY

Time : 10:00 - 10:20 A.M

#### DAY TIME

1. Location : Ferro Alloy Plant (Ferro Division)					
Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	73.9	78.4	76.71	East Side
02.	dB(A)	71.4	76.2	74.43	West Side
03.	dB(A)	73.6	79.1	77.17	North Side
04.	dB(A)	72.5	77.6	75.76	South Side
Average dB(A) Leq				76.01	

Reviewed By:

*Jalankar*  
Dy. Quality Manager

Approved By:

*Paul*  
Quality Manager

>End of Report<



# ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPB  
Accredited by NABL (ISO/IEC 17025:2017)  
Certified by ISO 9001:2015, ISO 14001 : 2015 & OHSAS 18001:2007



FORMAT NO. : ENV/FM/56

## TEST REPORT

1.	Name of the Industry / Project	: Eloquent Steel Pvt. Ltd. (Formerly Known as - Impex Steel Ltd.)
2.	Address	: Vill. - Nakrajoria, P.O + P.S - Salanpur, District - Paschim Burdwan
3.	Type of Industry	: Ferro Alloy and SMS Unit
4.	Sampling Plan & Procedure	: ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	: No
6.	Type of Sample	: Work Zone Noise
7.	Sample ID	: 451A/EC/M/N/II/19-20
8.	Date of Study	: 14/02/2020
9.	Reporting Date	: 25/02/2020
10.	Method No.	: IS: 9989 - 1981
11.	Time of Duration of Noise	: 20 Minutes
12.	Height from Ground Level	: 4 feet
13.	Sample Monitoring by	Mr. Kamalesh Das

### RESULT OF NOISE LEVEL STUDY

Time :10:30 - 10:50 A.M

### DAY TIME

### 2. Location : Induction Furnace Area - SMS Division

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	70.2	75.3	73.46	East Side
02.	dB(A)	72.9	76.4	74.99	West Side
03.	dB(A)	76.8	80.2	78.82	North Side
04.	dB(A)	71.4	78.9	76.60	South Side
Average dB(A) Leq				75.96	

Reviewed By:

*Jalanka*  
Dy. Quality Manager

Approved By:

*Raut*  
Quality Manager

>End of Report<



# ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB  
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Certified by ISO 9001:2015, ISO 14001 : 2015 & OHSAS 18001:2007



Certificate No. TC-6014



OHSAS  
18001 : 2007

FORMAT NO. : ENV/FM/56

## TEST REPORT

1.	Name of the Industry / Project	: Eloquent Steel Pvt. Ltd. (Formerly Known as - Impex Steel Ltd.)
2.	Address	: VIII. - Nakrajoria, P.O + P.S - Salanpur, District - Paschim Burdwan
3.	Type of Industry	: Ferro Alloy and SMS Unit
4.	Sampling Plan & Procedure	: ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	: No
6.	Type of Sample	: Work Zone Noise
7.	Sample ID	: 451A/EC/M/N/III/19-20
8.	Date of Study	: 14/02/2020
9.	Reporting Date	: 25/02/2020
10.	Method No.	: IS: 9989 - 1981
11.	Time of Duration of Noise	: 20 Minutes
12.	Height from Ground Level	: 4 feet
13.	Sample Monitoring by	Mr. Kamalesh Das

### RESULT OF NOISE LEVEL STUDY

Time : 11:00 - 11:20 A.M

#### DAY TIME

3. Location : Near Raw Material Stock Yard - R.M Handling Section

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	65.1	73.8	69.50	East Side
02.	dB(A)	63.9	74.5	71.89	West Side
03.	dB(A)	67.8	73.9	72.80	North Side
04.	dB(A)	64.8	72.6	69.50	South Side
Average dB(A) Leq				70.92	

Reviewed By:

*Jalanka*  
Dy. Quality Manager

Approved By:

*Paul*  
Quality Manager

>End of Report<

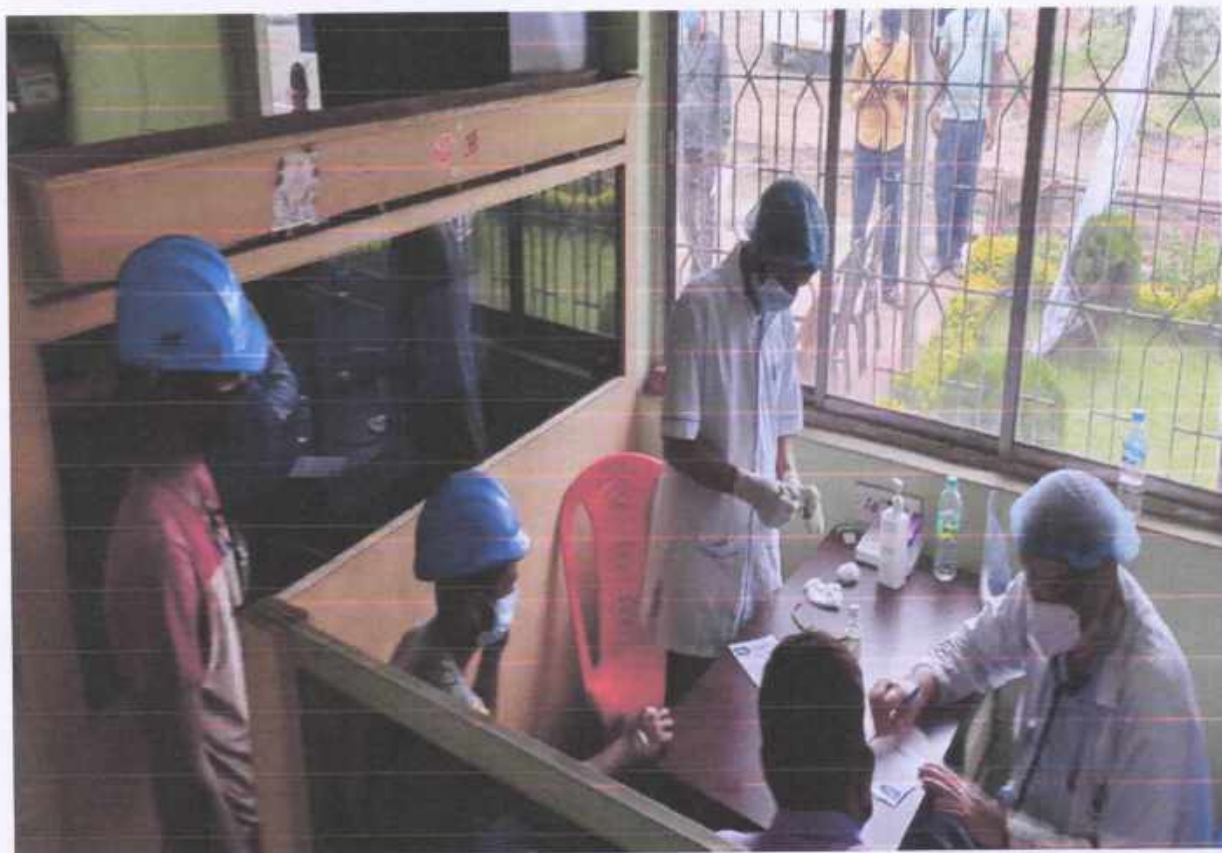
H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 { 033-25792891/25497490, Fax : 033-25299141  
Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 { 033-25792889  
Email : info@envirocheck.org /envirocheck50@gmail.com / Website : www.envirocheck.org  
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# ANNEXURE-11

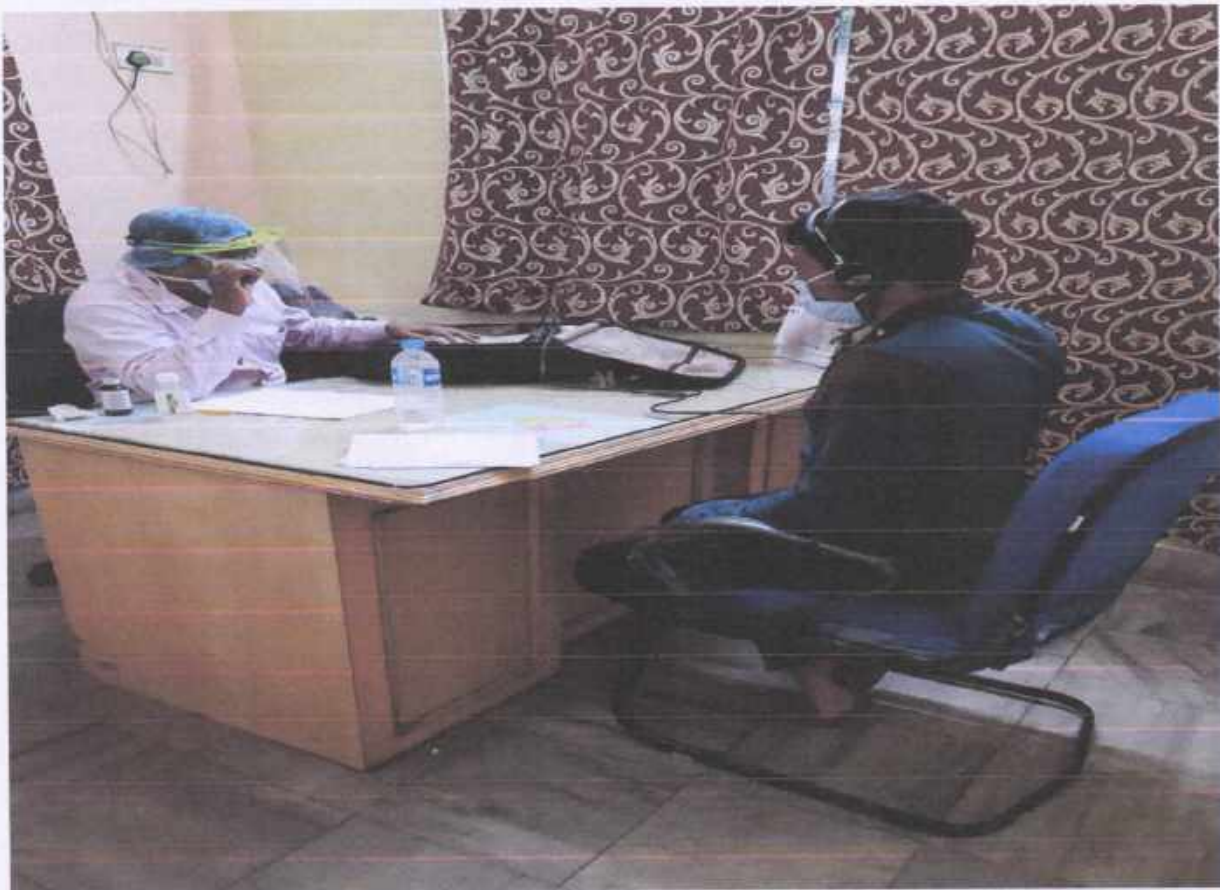


**PHOTOGRAPHS SHOWING OCCUPATIONAL HEALTH CHECKUP**













# ANNEXURE-12

**PHOTOGRAPHS SHOWING CSR ACTIVITIES**

Tiffin distribution at Kalipathar Hindi Primary School





Deepawali Celebration with School Children & Villagers



At Kalipathar Mother Teresa Charity Trust



Cloth Distribution to needy village women



# ANNEXURE-13



FORM 11

[ See rule 58(2) ]

Name Of District : PASCHIM BARDHAMAN

Name Of Block : SALANPUR

Name Of Gram Panchayat : DENDUA

Trade Registration No:- 44

Trade Registration Certificate issue No:- 1

Trade Registration Certificate issued for the period of :2020-2021  
to DEEPAK KUMAR AGARWAL

Trade Registration Date:- 31-Jul-2019  
Issue Date:- 18-May-2020

(Name of Prop/partner/Director)

Full Address : Village - NAKRAJORIA  
Police Station - SALANPUR  
Pin No - 713357

Para - NAKRAJORIA  
Post Office - SALANPUR

Gram Sansad/ Part No. SIX SEVEN

Description of Trade : IRON AND STEEL

Gram panchayat acknowledges a sum of Rs. 510.00 (Rupees Five Hundred and Ten Only)  
from M/s. M/S ELOQUENT STEEL PRIVATE LIMITED

Vide Receipt No : FORM-V9

Dated : 18-May-2020

Grant of this certificate shall not absolve the applicant from the requirement of procuring all the statutory clearances to be obtained from the appropriate authority before actual commencement of the trade. If any violation/default is noted later is, the certificate shall be liable to be cancelled and the trade/business shall be closed down with immediate effect.

  
**SECRETARY**  
DENDUA GRAM PANCHAYAT  
Executive Assistant/Secretary

  
**PRODHAN**  
Dendua Gram Panchayat  
Pradhan

N.B.: Gram Panchayat has every right to cancel or revoke or not allowing renewal of registration at any time