



**JAMSHEDPUR CHLOROCEM  
PRIVATE LIMITED**

Manufacturer of Low Carbon Ferro Alloys  
LC Ferro Manganese & Ferro Chrome Powder  
CIN: U24220JH1999PTC008858

**December 11, 2021**

To,  
**The Member Secretary,**  
Jharkhand State Pollution Control Board,  
T.A. Division Building, Dhurwa,  
Ranchi, Jharkhand

**Subject: Regarding compliance of Environmental Clearance conditions.**

Reference: Environmental Clearance from Ministry of Environment & Forest, New Delhi  
vide F.No. IA-J-11011/459/2017-IA-II(I) Dated 24-12-2018

Sir,

We have obtained environment clearance and NOC/CTE from the concerned authorities prior to starting the work at site. All mandatory clearances, authorizations and permission obtained prior to commissioning and operation of the plant.

As per requirements of Environment (Protection) Act 1986 and various conditions of the above mentioned Environmental Clearance we are submitting the six monthly compliance reports with status for the period from 1<sup>st</sup> April 2021 to 30<sup>th</sup> September 2021 to the specified authorities. The same is enclosed for your information.

Thanking you,

Yours Faithfully,

**For Jamshedpur Chlorochem Pvt. Ltd.**  
**JAMSHEDPUR CHLOROCEM PVT. LTD.**

*Manoj Kumar Gutgutia*  
**DIRECTOR**  
**(Manoj Kumar Gutgutia)**  
**Managing Director**



**Enclosure: Compliance Report for the period 01.04.2021 to 30.09.2021 with Annexures**



**JAMSHEDPUR CHLOROCEM  
PRIVATE LIMITED**

Manufacturer of Low Carbon Ferro Alloys  
LC Ferro Manganese & Ferro Chrome Powder  
CIN: U24220JH1999PTC008858

**December 11, 2021**

To,  
**The Director, IA-Division (Industry-1),**  
Indira Paryavaran Bhawan,  
Ministry of Environment, Forest & CC,  
Jorbagh Road, Lodhi Road, New Delhi-110003

**Subject: Regarding compliance of Environmental Clearance conditions.**

Reference: Environmental Clearance from Ministry of Environment & Forest, New Delhi  
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**December 11, 2021**

To,  
**The Regional Officer,**  
Jharkhand State Pollution Control Board,  
Adityapur, Jamshedpur, Jharkhand

**Subject: Regarding compliance of Environmental Clearance conditions.**

Reference: Environmental Clearance from Ministry of Environment & Forest, New Delhi  
vide F.No. IA-J-11011/459/2017-IA-II(I) Dated 24-12-2018

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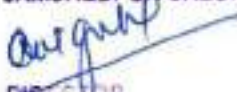
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**December 11, 2021**

**To,**  
**Regional Officer (ECZ)**  
Ministry of Environment, Forest and Climate Change,  
Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony,  
Ranchi – 834002

**Subject: Regarding compliance of Environmental Clearance conditions.**

Reference: Environmental Clearance from Ministry of Environment & Forest, New Delhi  
vide F.No. IA-J-11011/459/2017-IA-II(I) Dated 24-12-2018

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CIN: U24220JH1999PTC008858

**December 11, 2021**

**To,**  
**Regional Director**  
CPCB, Kolkata  
Southern Conclave, Block 502,  
5th & 6th Floors, 1582  
Rajdanga Main Road, Kolkata - 700107,

**Subject: Regarding compliance of Environmental Clearance conditions.**

Reference: Environmental Clearance from Ministry of Environment & Forest, New Delhi  
vide F.No. IA-J-11011/459/2017-IA-II(I) Dated 24-12-2018

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**Enclosure: Compliance Report for the period 01.04.2021 to 30.09.2021 with Annexures**



M/S JAMSHEDPUR CHLOROCEM PRIVATE LIMITED	
EC COMPLIANCE STATEMENT	
Environment Clearance issued by MoEF& CC vide reference no F. No. IA-J-11011/459/2017-IA-II(I) Dated 24-12-2018	
CONDITION	COMPLIANCE / STATUS (01.04.2021 to 30.09.2021)
<b>(A) SPECIFIC CONDITIONS:</b>	
1	Only washed Ore shall be used for the Ferro-Chrome. Being complied. Only washed/conc. ore is procured and used. No in-house washing done for any ore.
2	100% solid waste generated in the plant shall be utilized and no dumping shall be allowed either in the plant premises or outside area. Only Slag is generated as solid waste during production which is reused either as lining for vessels or supply to other industries for use as a raw materials. APCD dust is partly recycled in the process for Lining of Reactor Vessel & partly disposed thru TSDF (Adityapur Solid Waste Management)
3	The project proponent shall carry out decommissioning operations of existing hydrated lime unit by following the pollution control norms and the report on decommissioning shall be submitted to the Ministry's Regional Office, soon after its completion. Existing hydrated lime unit has been decommissioned and dismantled. The report is sent to the Ministry's Regional Office, after its completion.
4	Additional 5000 trees shall be planted around the premises. Plantation in process in the vacant space available in the factory premises & vicinity. Till date 120 no. Tree has been planted and process is ongoing. It is proposed to start block plantation of 1000 trees in a private land of 0.61 acres acquired by the Directors and already registered in the company's name at village Nishchintpur at approx. 8.5 Km from site in the same district.
5	TCPL test shall be carried for Ferro chrome slag at a frequency of 6 months. Being complied. Latest report attached as Annexure-1
<b>(B) General Condition</b>	
<b>I. Statutory compliance:</b>	
1	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee. Consent to Establish has been obtained from the Board vide Reference No. JSPCB/HO/RNC/CTE-4948936/2019/270 dt: - 2019-04-16 and consent to operate vide. Ref. No. - JSPCB/HO/RNC/CTO-8911700/2020/1735 Dated

JAMSHEDPUR CHLOROCEM PVT. LTD.

  
DIRECTOR



		2020.10.18copies of same attached as Annexure - 2 & Annexure - 3, respectively.
2	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	No water is used in the process except domestic purposes which is sourced from municipal supply of Industrial Area. Copy of same enclosed as Annexure -4
3	The project proponent shall obtain authorization under the Hazardous and other waste Management Rules, 2016 as amended from time to time.	Authorization obtained. Attached as Annexure - 5
<b>II. Air quality monitoring and preservation:</b>		
1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. 277 (E) dated 31 <sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time and connected to SPCB and CPCB Online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Continuous monitoring system is purchased from Forbes Marshall and installed. The fume extraction system with cyclone separators and bag filters along with ID Fan and stack installed to meet the norms.
2	The project proponent shall monitor fugitive emission in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Monitoring done through NABL accredited laboratory and reports attached as Annexure-6.
3	The project proponent shall carryout Ambient Air Quality monitoring for common / criterion parameters relevant to the main pollutants released (e.g. PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission, and SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> emission) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.	AAQ monitoring report attached as Annexure -6

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*Signature*  
DIRECTOR



4	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and monitoring of air quality / fugitive emissions to Regional Office of MoEF& CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Online monitoring system installed and under operation. Reports will be submitted along with next half yearly compliance.
5	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.	Multi cyclone dust collector with reactor vessels, dedicated bag filter with Pulverizer, Multi cyclone and bag filter with chrome ore pre heater installed.
6	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	The dust collected in APCD partly is reused for the lining of Reactor Vessel.
7	The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Covered transportation is done.
8	The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.	All raw materials are stored under shed with PCC floor and processing done under shed with PCC floor.
9	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	Being complied. Fume extractor with multicyclone and bag filter provided for the furnaces.
10	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.	Adequate Air Ventilation System provided.

### III. Water quality monitoring and preservation

1	The project proponent shall carry effluent monitoring with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time.	No effluent generated from the plant. No use of water in process. Domestic waste water routed to septic tank – soak pit combination.
2	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment	No ground water extraction or discharge from the plant. Ground water quality Report attached as Annexure –7

JAMSHEDPUR CHLORO CHEM PVT. LTD.

*August*  
DIRECTOR



	(Protection) Act, 1986 and NABL accredited laboratories.	
3	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF& CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	No effluent generated from the plant. No use of water in process. Domestic waste water routed to septic tank – soak pit combination.
4	Adhere to 'Zero Liquid Discharge.	Complied. No discharge of any water/wastewater from the premises.
5	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Sewage Treatment Plant not required as domestic waste water is very small in quantity. Domestic waste water routed to septic tank – soak pit combination.
6	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.	Not Applicable. No effluent generated from the plant. No use of water in process. There is no proposal of any rolling mill.
7	Garland drains and collection pits shall be provided for each stock pile to arrest the run off in the event of heavy rains and to check the water pollution due to surface run off	Storm water drains and collection pit constructed to collect the runoff water.
8	The project proponent shall practice rainwater harvesting to maximum possible extent	Rain water harvesting plant implemented as per guidelines of State Ground Water Directorate.
9	The project proponent shall make efforts to minimise water Consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	No use of water in process. Water used only for domestic and environment protection measures.
<b>IV. Noise monitoring and prevention</b>		
1	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Being Complied. Noise monitoring reports attached as Annexure –6
2	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Complied.


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*Signature*  
DIRECTOR



<b>(5) Energy Conservation measures</b>		
1	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.	Not applicable. No reheating furnace or Rolling mill envisaged or proposed.
2	Practice hot charging of slabs and billets/blooms as far as possible.	No reheating furnace or Rolling mill envisaged or proposed.
3	Ensure installation of regenerative type burners on all reheating furnaces.	Not applicable. No reheating furnace or system required.
4	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	No sufficient roof space available for installation of solar power. It will be complied to the extent possible.
5	Provide the project proponent for LED lights in their offices and residential areas.	LED Lights are installed in the entire premises.
<b>VI. Waste Management</b>		
1	Used refractories shall be recycled as far as possible.	Used refractories are utilized in house for relining of the reactor vessels.
2	Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces.	Not applicable. No oily scum and metallic sludge generated. No rolling mill envisaged.
3	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	No fly ash generation. Dust collected from bag filters used as raw material in the process
4	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	Being complied
<b>VII. Green Belt</b>		

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DIRECTOR



1	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant	Tree plantation is in progress. Total plant area is very small(0.92Acres only). More than 120 Tress already planted. Plantation will be taken outside the premises as directed.
2	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	This is a small scale unit with batch process and no major foot print.
<b>VIII. Public hearing and Human health issues</b>		
1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency preparedness plan, HIRA and Disaster management plan is submitted to the Inspector of Factories, Seraikela for approval and shall be implemented.
2	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	PPE as per the norms provided.
3	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Construction completed and plant in operation.
4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health check-up conducted for all workers and staff. Details attached in Annexure -8
<b>XI. Corporate Environment Responsibility</b>		
1	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	CER is proposed as per norms and will be complied. Details attached in Annexure -9
2	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard	Copy of corporate environmental policy attached as Annexure - 10

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*Autograph*  
DIRECTOR



	operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF& CC as a part of six-monthly report.	
3	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Environmental cell created under the Director. Office Memorandum of same is attached along with as Annexure - 10.
4	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	Being complied. EMP implementation being looked after by Environment Cell, headed by the Director. Details of expenses on EMP and Pollution Control from start till 30.09.2021 is attached as Annxeure- 11.
5	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out	Agreed and will be complied. Environment Statement for the FY ending 31 <sup>st</sup> March 2021 is attached along with as Annexure - 12.
6	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Mineral Beneficiation plants shall be implemented.	No washing or mineral beneficiation envisaged or proposed.
<b>X. Miscellaneous</b>		
1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in	Information to the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at

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DIRECTOR



	two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently	Website of the Ministry has been published in Hindustan (Hindi) and Hindustan Times dated 08.01.2019 and copies attached as Annexure - 13& Annexure - 14. Copy of EC uploaded on company website.
2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Letter sent to concerned offices/bodies. Receiving of same attached as Annexure - 15
3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Environmental Clearance letter & Compliance of last half-yearly has been uploaded on the web site of the company.
4	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Agreed and being complied
5	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Being complied
6	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Environment Statement for the year ending 31 <sup>st</sup> March 2021 attached along with as Annexure -12.
7	The project proponent 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, commencing the land development work and start of	Finance for the project has been approved by : 1. Bank of Baroda, Jamshedpur Main Branch, Jamshedpur on 23.01.2019 The unit has been installed with

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*Signature*  
DIRECTOR



	production operation by the project.	Consent to Establish under Reference No. JSPCB/HO/RNC/CTE-4948936/2019/270 dt. - 2019-04-16.
8	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agreed to complied
9	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee	All the commitments and recommendation made in the EIA/EMP and commitments made during Public Hearing are under process of compliance.
10	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	We confirm that no expansion or modification in the plant shall be carried out without prior approval of MoEF&CC
11	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986	Noted and agreed
12	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted and agreed
13	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions	Noted and agreed
14	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed and full cooperation will be made to the authorities.
15	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016	All the statutory compliances are being followed by the management.

JAMSHEDPUR CHLORO CHEM PVT. LTD.

*Asif*  
DIRECTOR



	and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	
16	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.

JAMSHEDPUR CHLORO CHEM PVT. LTD.

  
DIRECTOR





# KALYANI LABORATORIES PVT. LTD.

78914, PAHAL, BIRUBANESWAR-752101, ODISHA

## TEST REPORT

**NABL ULR NO** : TC704321000007799P  
**Test Report No** : 260 | KLPL/3/21/GENERAL/00531 Issue Date : 27-May-2021  
**Amendment No** : - Amendment Date : -  
**Reference** : -  
**Customer Name** : JAMSHEDPUR CHLOROCEM PVT. LTD.  
**Address** : PLOT NO. NS-88,VITH PHASE ,ADITYAPUR IND.AREA,GAMHARJA-832108  
**Date of receipt** : 27-Mar-2021 Commenced On : 27-Mar-2021 Completion On: 25-May-2021  
**Name** : LOW CARBON FERRO CHROME SLAG  
**Sample Description** : SEALED  
**Sample Identification \*** : LOW CARBON FERRO CHROME SLAG  
**Received Quantity** : 500GM Location : NA  
**Sample Collected By** : SUBMITTED BY CUSTOMER  
**Ref.To Sampling Procedure:**

Parameters	Unit	Result	Test Method
<b>CHEMICAL PARAMETER</b>			
I Chromium (as Cr)	mg/l	0.0074	TCLP Criteria of hazardous waste characterisation procedure
II Copper (as Cu)	mg/l	<0.02	TCLP Criteria of hazardous waste characterisation procedure
III Fluoride	mg/l	5.6	TCLP Criteria of hazardous waste characterisation procedure
IV Hexavalent Chromium (as Cr+6)	mg/l	<0.05	TCLP Criteria of hazardous waste characterisation procedure
V Iron (as Fe)	mg/l	78.15	TCLP Criteria of hazardous waste characterisation procedure
VI Zinc (as Zn)	mg/l	0.4974	TCLP Criteria of hazardous waste characterisation procedure
<b>TOXIC SUBSTANCES</b>			
VII Cadmium (as Cd)	mg/l	<0.001	TCLP Criteria of hazardous waste characterisation procedure
VIII Lead (as Pb)	mg/l	<0.005	TCLP Criteria of hazardous waste characterisation procedure
IX Mercury (as Hg)	mg/l	<0.0005	TCLP Criteria of hazardous waste characterisation procedure
X Nickel (as Ni)	mg/l	<0.01	TCLP Criteria of hazardous waste characterisation procedure

\*\* : Not Covered Under NABL Scope

Remarks : NIL

Any unusual feature observed during determination : NIL

End of Test Report

D. Anuricha  
 Analysed By  
 For Kalyani Laboratories Pvt. Ltd.



Pooja Nayak  
 Authorized Signatory = 27/05/2021  
 For Kalyani Laboratories Pvt. Ltd.

KLPL- 345963A

JAMSHEDPUR CHLOROCEM PVT. LTD.  
 Director

DIRECTOR



# ANNEXURE-2



## JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834004  
Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref No.: JSPCB/HO/RNC/CTE-4948936/2019/270

Dated : 2019-04-16

**Consent to Establish (CTE) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981**

1. Reference: Application (s) No.- 4948936 / dated : 15/03/2019 of JAMSHEDPUR CHLOROCEM PVT. LTD, MANOJ KUMAR GUTGUTIA for consent under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

**2. Documents Relied Upon:**

(i) The contents of N.O.C. application, Project report and the documents furnished in support of application.

(ii) The related provisions of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and the Environment (Protection) Act, 1986.

(iii) The content of Registered land agreement no. 64/62/2000 dated 11.12.2000;

(v) The content of affidavit for surrender of CTE & CTO for Hydrated Lime-1200 TPA & dismantling the existing unit for new plant;

(vi) The content of Self-declaration for procuring raw material from valid source,

(vii) The content of affidavit for implementation of environment management plan and pollution control measures with budgetary provision for implementation;

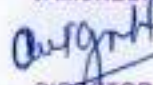
(viii) The content of Environmental Clearance granted by MoEF&CC, GoI vide ref. no. J-11011/459/2017-I(A).II(I), dated 24.12.2018 for LC Ferro Chrome & LC Ferro Manganese-3600 TPA, Ferro Molybdenum-1200 TPA, Ferro Vanadium-1200 TPA;

(iv) The content of inspection report (IR) vide Ref. No. 551 dated 25.03.2019 regarding forest distance.

3. The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to establish the project in Mauza- GAMHARIA, P S -GAMHARIA, District-SERAIKELA KHARSAWAN as follows:

Project	Site-Area		Investment (Rs)/ Year	Product & Capacity	Period of CTE
	Plot Nos.	Area			

JAMSHEDPUR CHLOROCEM PVT. LTD.

  
DIRECTOR



Before Expansion	Plot no. NS-88, V1th Phase, AIA, Gamaharia, Seraikela-Kharsawa	40000 sq.ft.	200 Lac	LC Ferro Chrome & LC Ferro Manganese-3600 TPA, Ferro Molybdenum-1200 TPA, Ferro Vanadium-1200 TPA	Six months from date of issue
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**(A) Specific Conditions:**

- (1) That, the proponent shall obtain consent to operate from State Pollution Control Board under section 25 & 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 prior to commissioning of the plant;
- (2) That, the proponent shall obtain authorization under the Hazardous Waste (Management, Handling and Trans Boundary) Rules, 2008;
- (3) That, the proponent shall abide by the provisions of the Environment (Protection) Act, 1986 and submit the reports of effluent, emission, ambient air quality and noise level monitored before and after commissioning of the plant in compliance of the standards prescribed in the Environment (Protection) Rules, 1986;
- (4) That, the proponent shall collect and treat the effluent in foolproof latest system and shall recycle treated effluent for re-use and shall ensure no discharge of effluent outside the premises;
- (5) That, the proponent shall make stack(s) of the height and with the provision(s) of emission monitoring port hole(s), ladder(s) and platform(s) as prescribed by Central Pollution Control Board;
- (6) That, the proponent shall ensure continuous and uninterrupted power supply with provision of separate energy meters for the pollution control systems to enable the pollution control systems to function uninterruptedly;
- (7) That, the proponent shall use D.G. set of 200 KVA having specification as prescribed in the Environment (Protection) Rules, 1986 and shall house it in integral acoustic enclosure and shall keep the height of exhaust pipe as per Central Pollution Control Board norms;
- (8) That, the proponent shall dispose of hazardous wastes in the manner as specified under Hazardous Waste Management Rules, 2016;
- (9) That, the proponent shall do tree plantation in 33% of vacant spaces within the premises. Selection of plant species shall be as per CPCB guidelines in consultation with local DFO;
- (10) That, the proponent shall implement plan of rainwater harvesting with establishment of the project. Rain Water Harvesting plan must be approved by Ground Water Directorate, Govt. of Jharkhand;
- (11) That, the proponent shall make all inside and approach (within the control of the proponent) roads pucca and shall maintain a good housekeeping by regular cleaning and wetting of the premises and dust prone areas;

JAMSHEDPUR CHLORO-CHEM PVT. LTD.

*(Signature)*  
DIRECTOR



(12) That, the proponent shall store all raw materials and products under shed and shall as far as practicable do their processing and transfer under foolproof cover(s);

(13) That, the proponent shall use fly ash and or fly ash bricks in construction of the project;

(14) That, the proponent shall use all solid wastes as resource as a raw material or a product;

(15) That, the proponent shall submit compliance report of Environmental Clearance granted by Ministry of Environment and Forest, Govt. of India, New Delhi, as per the requirement of Environmental Clearance to the Board accordingly;

(16) That, the proponent shall submit the compliance report of consent order granted to the existing unit vide memo No. B-2144 dated 17-08-2011 as per the consent order;

(17) That, the proponent shall install install Wet Scrubber and Venturi Scrubber System for control of SO<sub>2</sub> and dust from the chimney. and stack attached to it of a height of at least 110' ft from the ground level to control the dusts and gaseous emissions;

(18) That, the proponent shall make proper arrangement for disposal of all the solid wastes to be generated during production of pencil ingots;

(19) That, this consent to establish is subject to statutory and other clearances from Govt. of Jharkhand or Ministry of Environment & Forest, Govt. of India as and when applicable.

**(B) General Conditions :**

(1) That, the occupier shall construct pucca (i) minimum ten feet high boundary wall and (ii) approach road and internal roads and shall keep the premises neat and clean and tidy.

(2) That, the occupier shall install comprehensive enclosure (s) to cover the places of unloading of raw materials, the equipments of their processing & transferring, the places of loading of products, by products and wastes for prevention of fugitive emission and shall install such automatic inbuilt system(s) that in house dust/ gases collect(s) and undergo (es) cleaning and clean air goes out.

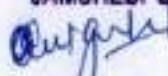
(3) That, the occupier shall install such automatic inbuilt system(s) that process flue gas(es) / process gas(es) and undergo(es) cleaning and clean air go(es) out through the chimney(s), having height(s) as per Central Pollution Control Board norm.

(4) That, the occupier shall have D G Set(s) of the standard as laid in the Environment (protection) Rules, 1986 and shall install it (them) within acoustic enclosure (s) and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm .

(5) That, the occupier shall impart treatment as per Central Pollution Control Board text to wastewater and shall keep process effluent in close-circuit and effluent from other sources in conformity with the standard (s).

(6) That, the occupier shall install Central Ground Water Board/ State Ground Water Directorate approved system of rain water harvesting-cum-ground water recharge.

JAMSHEDPUR CHLORO CHEM PVT. LTD.

  
DIRECTOR



(7) That, the occupier shall create new water body (ies) / remove deposit(s) of existing water body(ies) and nearby stream(s) and pond(s) and shall maintain the wholesomeness of water.

(8) That, the occupier shall grow greenery in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.

(9) That, this CTE is valid subjected to the validity of mining Lease / Mining Plan / Ecofriendly / Environmental Clearance, if applicable. In case of no renewal of Mining Lease/Mining Plan, this consent shall be treated as revoked automatically.

(10) That, this CTE is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time being in force, rests with the industry/ unit/ occupier.

(11) That, this CTE shall not in any way, adversely affect or jeopardize the legal proceeding , if any, instituted in the past or that could be , instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.

(12) That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules there under.

4. That, this CTE shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.
5. That, this CTE is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTE will be revoked if any of the information/ documents/ certificates/ undertaking given by the occupier is found false/fictitious/forged in future.
6. This order shall be valid subject to compliance of all other legal requirements applicable to the unit.
7. The State Board reserves the right to revoke, withdraw or make any reasonable variation / change / alteration in condition of this consent.

**This is issued with the approval of the competent authority**

DINESH  
PRASAD  
SINGH

Digitally signed by  
DINESH PRASAD SINGH  
Date: 2019.04.16  
15:48:46 +05'30'

**(Dinesh Prasad Singh)  
Environmental Engineer**

Memo No. : JSPCB/HO/RNC/CTE-  
4948936/2019/270

Dated : 2019-04-16

**Copy to :** M/s JAMSHEDPUR CHLOROCEM PVT. LTD., NS-88, 6TH-PHASE, AIA, Seraikela Kharsawan/ Chief Inspector of Factory, Doranda, Ranchi/ Director Industries, Govt. of Jharkhand, Ranchi/ Deputy Commissioner, Seraikela Kharsawan/ D.F.O, Seraikela Kharsawan/ Regional Office, J.S.P.C. Board, Jamshedpur for information and necessary action.

DINESH  
PRASAD SINGH

Digitally signed by  
DINESH PRASAD SINGH  
Date: 2019.04.16  
15:49:26 +05'30'

JAMSHEDPUR CHLOROCEM PVT. LTD.,

  
DIRECTOR



**(Dinesh Prasad Singh)**  
**Environmental Engineer**

JAMSHEDPUR CHLOROCEM PVT. LTD.

*Dinesh Prasad Singh*  
DIRECTOR



# ANNEXURE - 3



## JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834004

Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref No. JSPCB/HO/RNC/CTO-8911700/2020/1735

Dated : 2020-10-18

**Consent to operate (CTO) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981**

1. Application (s) dated 2020-09-14 of JAMSHEDPUR CHLOROCEM PVT. LTD, Occupier Name :MANOJ KUMAR GUTGUTIA for consent under section 25 (1)(b)/25 (1) (c)/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(1) of the Air (Prevention & Control of Pollution) Act,1981..

2. **Documents Relied Upon:**

(i) The content of Consent to establish (CTE) vide Ref No.: JSPCB/HO/RNC/CTE-4948936/2019/270 Dated : 2019-04-16 for for LC Ferro Chrome & LC Ferro Manganese- 3600 TPA, Ferro Molybdenum 1200 TPA, Ferro Vanadium-1200 TPA;

(ii) The content of Consent to operate (CTO) vide Ref No. JSPCB/HO/RNC/CTO-6577790/2019/2350 Dated : 2019-11-19 for LC Ferro Chrome & LC Ferro Manganese 3600 TPA, Ferro Molybdenum- 1200 TPA, Ferro Vanadium-1200 TPA valid up to 30.09.2020 with compliance report;

(iii) The content of Registered land agreement no. 64/62/2000 dated 11.12.2000;

(iv) The content of affidavit for surrender of CTE & CTO for Hydrated Lime-1200 TPA & dismantling the existing unit for new plant;

(v) The content of Self-declaration for procuring raw material from valid source,

(vi) The content of affidavit for implementation of environment management plan and pollution control measures with budgetary provision for implementation;

(vii) The content of Environmental Clearance granted by MoEF&CC, Gol vide ref. no. J-11011/459/2017-I(A).II(I), dated 24.12.2018 for LC Ferro Chrome & LC Ferro Manganese-3600 TPA, Ferro Molybdenum 1200 TPA, Ferro Vanadium-1200 TPA;

(viii) The content of inspection report (IR) vide Ref. No. 933 dated 24.09.2020 regarding forest distance.

3. The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to operate the project in Mauza -GAMHARIA , P S -GAMHARIA , District -SERAIKELA KHARSAWAN , as follows:

Project	Site-Area		Investment (Rs)	Product & Capacity	Period of CTO
	Plot Nos.	Area			Date of issue To

JAMSHEDPUR CHLOROCEM PVT. LTD.

*Signature*  
DIRECTOR



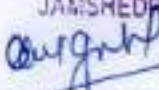
Before Expansion	Plot no. NS-88, V1th Phase, AIA, Gamaharia, Seraikela Kharsawa	40000 sq.ft.	200 Lac	LC Ferro Chrome & LC Ferro Manganese 3600 TPA, Ferro Molybdenum 1200 TPA, Ferro Vanadium-1200 TPA	30/09/2025
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**(A) Specific Conditions:**

1. That, the occupier shall do unloading of Coal in such a covered area that fugitive emissions shall be minimum and fixed type water sprinkling system must be installed in this area;
2. That, the occupier shall make Work area and transport roads concrete/ black top within two months of issue of this consent order failing which Consent to Operate shall be revoked.
3. That, the occupier shall purchase raw material only from valid source and shall maintain record of it and shall show the record to the Inspecting Officer during inspection;
4. That, the occupier shall inform to Regional Office-Cum- Lab, JSR and Head Office, JSPC Board, at Ranchi within 24 hrs from the time of closure or opening of the plant.
5. That, the occupier shall operate Pollution Control Device (APCD) i.e. wet scrubber regularly and shall maintain height of stack of at least 30 mtr from the ground level and maintain the standard of particulate matters/ dust concentration in stack emission of 150 mg/Nm<sup>3</sup>;
6. That, the occupier shall re-circulate the scrubbing water and reuse after proper settling and treatment and in no case it shall be discharged out of premises;
7. That, the occupier shall if be found violating the Consent to Operate at any point of time during inspection of the plant by the competent authority, the Consent to Operate shall be revoked as per provision of the acts.
8. That, the occupier shall submit online applications for renewal of consent under section 25 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 again 04 months prior to the date of expiry of this consent i.e. 30.09.2025 with documents showing compliance of all of the above conditions

**(B) General Conditions :**

- (1) That, the occupier shall maintain the **National Ambient Air Quality Standard** given below:

JAMSHEDPUR CHLORO CHEM PVT. LTD.  
  
 DIRECTOR



S N	Pollutant	Time Weighted Average	Concentration in Ambient Air	
			Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Govt.)
(1)	(2)	(3)	(4)	(5)
1.	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Annual 24 hours	50 80	20 80
2.	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Annual 24 hours	40 80	30 80
3.	Particulate Matter (size less than 10 µm) or PM <sub>10</sub> , µg/m <sup>3</sup>	Annual 24 hours	60 100	60 100
4.	Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub> , µg/m <sup>3</sup>	Annual 24 hours	40 60	40 60
5.	Ozone(O <sub>3</sub> ), µg/m <sup>3</sup>	8 hours 1 hour	100 180	100 180
6.	Lead (Pb) µg/m <sup>3</sup>	Annual 24 hours	0.50 1.0	0.50 1.0
7.	Carbon Monoxide (CO) mg/m <sup>3</sup>	8 hours 1 hour	02 04	02 04
8.	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	Annual 24 hours	100 400	100 400
9.	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	Annual	05	05
10.	Benzo(a) Pyrene(BaP) Particulate Phase only ng/m <sup>3</sup>	Annual	01	01
11.	Arsenic (As) ng/m <sup>3</sup>	Annual	06	06
12.	Nickel (Ni) ng/m <sup>3</sup>	Annual	20	20

**Note : Serial no. 1 to 4 – Mandatory  
Serial no. 5 to 12 As applicable for specific type of industry.**

JAMSHEDPUR CHLORO CHEM PVT. LTD.

*[Signature]*  
DIRECTOR



- (2) That, the occupier shall maintain the emission quality within the standard and the quantity, as follows:

S N	Parameter	Standard
1	Particulate Matter	100 mg/ Nm <sup>3</sup>

- (3) That, the occupier shall keep process effluent in close-circuit and the quality of effluent from other sources in conformity with the standard (s) and the discharge quantity as below:

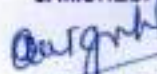
S N	Parameter	Standard
1	Total Suspended Solids	100 mg/L
2	BOD	30 mg/L
3	COD	250 mg/L
4	Oil & Grease	10 mg/L

- (4) That, the occupier shall dispose of solid wastes as follows:

S N	Waste Type	Mode of Disposal
1	Hazardous Carbonaceous Wastes	In co-processing in high temperature furnaces or kilns
2	Hazardous Non-Carbonaceous Wastes	In TSDF
3	Non-Carbonaceous Non-Hazardous solid wastes/ Mine Over Burden	As a substitute of Soil or Mineral

- (5) That, the occupier shall keep D G Set(s) within acoustic enclosure and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm.
- (6) That, the occupier shall install and maintain Central Ground Water Board/ State Ground Water Directorate approved system of rain water harvesting-cum-ground water recharge and submit the photographic view of the structures within a month.
- (7) That, the occupier shall grow and maintain greenery of the project in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.
- (8) That, the occupier shall submit environmental statement with supporting stoichiometric calculations analyses reports, every year latest by 30th September of the next financial year.
- (9) That, the occupier shall submit report(s) duly monitored and issued by an NABL accredited / ISO 9001:2008 and OHSAS 18001:2007 certified laboratory in compliance sub-para (2), (3), (4) and (5) of paragraph 3 of this CTO yearly at required periodicity.

JAMSHEDPUR CHLORO CHEM PVT. LTD.

  
DIRECTOR



- (10) That, this CTO is valid subjected to the validity of mining Lease/Mining Plan/Ecofriendly/Environmental Clearance, if applicable. In case of no renewal of Mining Lease/Mining Plan, this consent shall be treated as revoked automatically.
  - (11) That, this CTO is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ occupier.
  - (12) That, this CTO shall not in any way, adversely affect or jeopardize the legal proceeding , if any, instituted in the past or that could be , instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.
  - (13) That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules made there under.
4. That, this CTO shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.
  5. That, this CTO is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTO will be revoked if any of the information/documents/certificates/undertaking given by the occupier is found false/fictitious/forged in future.
  6. The Order shall be valid subject to compliance of all other legal requirements applicable to the unit.
  7. The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alteration in conditions of this consent.

**This is issued with the approval of the Competent authority**

**DINESH PRASAD SINGH**  
 Digitally signed by DINESH PRASAD SINGH  
 Date: 2020.10.18 13:02:45 +05'30'  
**(Dinesh Prasad Singh)**  
 Environmental Engineer

Memo No. : JSPCB/HO/RNC/CTO-8911700/2020/1735

Dated : 2020-10-18

**Copy to:** M/s JAMSHEDPUR CHLOROCEM PVT. LTD., NS-88, 6TH-PHASE, AIA, Seraikela Kharsawan/ Chief Inspector of Factory, Doranda, Ranchi/ Director Industries, Govt. of Jharkhand, Ranchi/ Deputy Commissioner, Seraikela Kharsawan/ D.F.O, Seraikela Kharsawan/ Regional Office, J.S.P.C. Board, Jamshedpur for information and necessary action.

**DINESH PRASAD SINGH**  
 Digitally signed by DINESH PRASAD SINGH  
 Date: 2020.10.18 13:02:53 +05'30'  
**(Dinesh Prasad Singh)**  
 Environmental Engineer

**JAMSHEDPUR CHLOROCEM PVT. LTD.**

*Outgoing*  
 DIRECTOR



## ADITYAPUR MUNICIPAL CORPORATION

## WATER USER CHARGE

## Payment Receipt

Receipt No. 342941-79202115306

Date : 07-09-2021

Department / Section :

Ward No : 20

Account Description : Water Fees (User Charge), Fees, Other Charges &amp; Deposits

Holding No : SAF NOT DONE

Consumer No : ADI130919014425290928

Old Consumer No : M-215

Received From Shri / Smt.

M/S JAMSHEDPUR CHLOROCEM C/O

NA

Address :

NS-88 SIXTH PHASE ADITYAPUR Mobile No

7004606657

A Sum of Rs. 540.00

(in words) Five Hundred and Fourty only.

towards Water Fees (User Charges), Fees, Other Charges &amp; Deposits vide CASH

## WATER USES CHARGE DETAILS

Code of Amount	Account Description	Period/Units	Due Period	
105012	Water Fees (User Charge)(2021-2022)	01-08-2021 - 30-09-2021	2 Month(s)	
1801003	Water Supply Deposits (Deposit Fortified)			
1404007	Disconnection Fees			
3402001	Water Connection Deposit(Refundable)			
1407004	Road Damage Recovery			
1718003	Interest on Water Tax Receivable			
			Total Billing Amount	
			Amount Received	
			Total Due	

Signature of Tax Collector

For Details Please Visit : [udhd.jharkhand.gov.in](http://udhd.jharkhand.gov.in)  
OR Call us at 18002586545In Collaboration with  
Sparrow Softech Pvt. Ltd.  
H-117, Hamu Housing  
Colony, Sajanand  
Chowk, Ranchi

Print Date : 07-09-2021

NOTE : This is a Computer generated receipt. This receipt does not require physical signature.

JAMSHEDPUR CHLOROCEM PVT. LTD.

DIRECTOR





**JHARKHAND STATE POLLUTION CONTROL BOARD**  
T.A. DIVISION BUILDING (GROUND FLOOR), H.E.C., DHURWA, RANCHI -834004  
Phone.:2400852, 2400851, Fax:0651- 2400850 www.jspcb.org

**FORM 2**  
[See rule 6(2)]

**FORM FOR GRANT OR RENEWAL OF AUTHORIZATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES**

- No. of authorization and date of issue: JSPCB/RO/JSR/HWM-9013202/2020/4 15/10/2020
- Reference of application(No. and date): 9013202 24/09/2020
- JAMSHEDPUR CHLOROCEM PVT. LTD of MANOJ KUMAR GUTGUTIA is hereby granted an authorisation based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilisation, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated at NS-88, 6TH-PHASE, ADITYAPUR INDUSTRIAL AREA, GAMHARIA, DIST.- SARAIKELA-KHARSAWAN, JHARKHAND

**Details of Authorisation**

Sl.No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilisation or co-processing, etc.	Quantity(ton/annum)
1	Chromium compounds(VI), 7.1 & 7.4	M/s Adityapur Waste Management Pvt. Ltd. TSDF	36 Tone/Year

(1) The authorisation shall be valid for a period of Upto 23.09.2025

(2) The authorisation is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):

**A General conditions of authorisation:**

- The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
- The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
- Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.

JAMSHEDPUR CHLOROCEM PVT. LTD.

DIRECTOR



5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

**B Specific conditions:**

- (1) An application for the renewal of an authorization shall be made as laid down in Sl. No. 5 (6) (II) of Hazardous waste (Management & Handling) Rules, 1989.
- (2) The quantities with categories and names of Hazardous wastes generated shall be submitted within one month.
- (3) Hazardous Wastes shall be kept in secured land and sent to authorized recycler.
- (4) The unit shall maintain records of collection, Reception, Treatment, Storage & Disposal of H/W in form-3 and submit annual return in form-4 as per the rules.
- (5) That, the unit shall install H.W. Display Board at main gate and update it from time to time.

Memo No:JSPCB/RO/JSR/HWM-9013202/2020/4  
Date: 15/10/2020

SURESH PASWAN  
Digitally signed by SURESH PASWAN  
Date: 2020.10.15  
16:34:56 +05'30'

(Suresh Paswan)  
Regional Officer

**Copy To:**

M/s Jamshedpur Chlorochem Pvt. Ltd., NS-88, 6th-Phase, AIA, Gamharia, Dist- Saraikela Kharsawan/Deputy Commissioner, Saraikela Kharsawan/Factory Inspector, Saraikela Kharsawan/Regional Director, JIADA/The Member Secretary, Jharkhand State Pollution Control Board, Ranchi for information.

SURESH PASWAN  
Digitally signed by SURESH PASWAN  
Date: 2020.10.15  
16:35:16 +05'30'

(Suresh Paswan)  
Regional Officer

JAMSHEDPUR CHLOROCEM PVT. LTD.

*Autograph*  
DIRECTOR





# ENVIRONMENTAL LABORATORIES &



PILOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA  
HATIA, RANCHI-834003 (JHARKHAND)  
Email: info@elespl.co.in; eles.ranchi@gmail.com  
Website: www.elespl.co.in

ENGINEERING SERVICES PVT. LTD.

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 CERTIFIED  
NABL Accredited & JSPCB Certified Lab. for  
Environmental Pollution Monitoring & Analysis

CIN: U74999HR2018PT001125

GST NO:- 20AAECE9713D124 T: 0651-2290103, 9931289451

## TEST REPORT OF FLUE GAS EMISSION QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5138	Report Release Date	: 01.11.2021
ULR No.	: TC883921000000783P		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Jamshedpur Chlorochem Pvt. Ltd.	Sample Ref. No.	: ELES/RNC/2021/SM/977
Address	: Plot No.-NS-88, VI <sup>th</sup> Phase	Location	: Bag Filter Stack
	: Adityapur Industrial Area, Dist.- Sarnikela Kharsawan	Sampling Date	: 21.09.2021
Plant Status	: Operational	Sample Received Date	: 23.09.2021
		Type of Sample	: Flue Gas
Period of Analysis	: 23.09.2021 to 01.10.2021	Sampling Procedure	: ELES/DOC/SMPL/02(A)
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

GENERAL INFORMATION	
1	Particular of the Plant : Ferroy alloys
2	Emission Due to : Process Activity
3	Stack Connected to : Reactor Vessels
4	Material of Construction of Duct : M.S
5	Stack Height from Ground Level (m) : 36.0
6	Height of Sampling Port from Ground Level (m) : 17.5
7	Inner Diameter of Stack at Sampling Point (m) : 0.9
8	Shape of the Stack : Circular
9	Working Load of the Stack : N/A
10	Pollution Control System : Bag Filter & Cyclone Separator
11	Ladder & Platform : Permanent

FUEL CHARACTERISTICS DETAILS	
1	Type of Fuel Used : Aluminium
2	Fuel Consumption : 144 Kg/Cycle
3	Calorific Value of Fuel (Kcal/Kg) : N/A

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CIN: U74999SI001897C021125

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## TEST REPORT OF FLUE GAS EMISSION QUALITY MONITORING

Test Report No. : ELES/RNC/2021/5138	Report Release Date : 01.11.2021
ULR No. : TC883921000000783P	


### TEST REPORT

NABL Accredited Tests			
Parameter	Unit	Test Protocol	Result
Particulate Matter (PM)	mg/Nm <sup>3</sup>	IS 11255(Part 1):1985; RA 2014	46
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	IS 11255 (Part-7) 1985	<80.0
Flue Gas Temperature	°C	IS 11255 (Part 3): 2008; RA 2018	55
Barometric Pressure	mmHg	IS 11255 (Part 3): 2008; RA 2018	745
Velocity of Flue Gas	m/sec	IS 11255 (Part 3): 2008; RA 2018	6.73
Quantity of Gas Flow	Nm <sup>3</sup> /hr	IS 11255 (Part 3): 2008; RA 2018	13638.14

Page 2 of 3

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JAMSHEOPUR CHLORO-CHEM PVT. LTD.

  
DIRECTOR





CIN: U74999WB2018PTC011175

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## TEST REPORT OF FLUE GAS EMISSION QUALITY MONITORING

Test Report No. : ELES/RNC/2021/5138	Report Release Date : 01.11.2021
ULR No. : TC883921000000783P	

### TEST REPORT

Parameter	Unit	Test Protocol	Result
Sulphur Di-Oxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	USEPA 6A	22.0

**Authorized Signatory**  
**SANDIP BERA**  
SENIOR MANAGER  
ELES PVT. LTD.

\*\*\*\*End of Report\*\*\*\*

**Authorised Signatory**  
**Dr. Deependra Kumar Sinha**  
Ph. D. Environmental Engg.  
ELES Pvt. Ltd. Technical Manager

Page 3 of 3

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"Saving Environment will only save the Future"

JAMSHEDPUR CHLORO-CHEM PVT. LTD.

DIRECTOR





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## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5134-Rev-001	Report Release Date	: 20.11.2021
ULR No.	: TC883921000000779P		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Jamshedpur Chlorochem Pvt. Ltd.	Sample Ref. No.	: ELES/RNC/2021/AA/970
Address	: Plot No.-NS-88, VI <sup>th</sup> Phase Adityapur Industrial Area, Dist.- Saraikela Kharsawan	Location	: Roof of the Office
		Sampling Date	: 21.09.2021 to 22.09.2021
Plant Status	: Operational	Sample Received Date	: 23.09.2021
		Type of Sample	: Ambient Air
Period of Analysis	: 23.09.2021 to 30.10.2021	Sampling Procedure	: ELES/DOC/SMPL02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C)	: 32	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 65	4	Weather Condition	: Partly Cloudy
5	Longitude	: 86°07'16.98"E	6	Latitude	: 22°47'49.43"N
7	NABL Group	: Atmospheric Pollution	8	Discipline	: Chemical

### TEST REPORT

NABL Accredited Tests												
Parameter	Unit	Test Protocol	Result						Regulatory Limit			
			Duration			24hrs. Avg.						
Particulate Matter (PM10)	µg/m <sup>3</sup>	IS 5182 (Part-23); 2006; RA2017	10:42 - 18:39			18:45 - 02:39			02:45 - 10:35			100 (24hrs)
			69			76			71			
			72									
Sulphur Di-Oxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-2); 2001; RA2017	10:42 - 14:35		14:35 - 18:39		18:45 - 22:38		02:45 - 06:39		80 (24hrs)	
			10.3		9.7		9.1		8.8			
			11.7		10.8		10.1					
Nitrogen Di-Oxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-6); 2001; RA2017	10:42 - 14:35		14:35 - 18:39		18:45 - 22:38		02:45 - 06:39		80 (24hrs)	
			25.8		23.4		23.0		22.9			
			30.2		26.5		25.3					

Page 1 of 3

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JAMSHEDPUR CHLOROCEM PVT. LTD.

*Aufgubh*  
DIRECTOR





# ENVIRONMENTAL LABORATORIES &



PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA  
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Environmental Pollution Monitoring & Analysis

CIN: U74999JH2018PTC011125

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5134-Rev-001	Report Release Date	: 20.11.2021
ULR No.	: TC883921000000779P		

### TEST REPORT

NABL Accredited Tests									
Parameter	Unit	Test Protocol	Result				Regulatory Limit		
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-9): 1974; RA.2014	Duration			24hrs. Avg.	100 (8hrs)		
			10:42 - 18:39	18:45 - 02:39	02:45 - 10:35	<20.0			
			<20.0	<20.0	<20.0				
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	401: Methods of Air Sampling & Analysis	Duration				24hrs. Avg.	400 (24hrs)	
			10:42 - 14:35	14:35 - 18:39	18:45 - 22:38	22:38 - 02:39	02:45 - 06:39		<10.0
			<10.0	<10.0	<10.0	<10.0	<10.0		
Particulate Matter (PM-2.5)	µg/m <sup>3</sup>	USEPA CFR40	43				60 (24hrs)		
Lead (Pb)*	µg/m <sup>3</sup>	IS 5182 (Part-22): 2004	<0.01				1 (24hrs)		
Nickel (Ni)*	ng/m <sup>3</sup>	SO-IN-MUL-TE-075	<2.0				20 (Annual)		
Arsenic (As)*	ng/m <sup>3</sup>	SO-IN-MUL-TE-075	5.3				6 (Annual)		
Benzene (C <sub>6</sub> H <sub>6</sub> )*	µg/m <sup>3</sup>	ASTM D3687:2007	<2.0				5 (Annual)		
Benzo-(a)-Pyrene*	ng/m <sup>3</sup>	USEPA 8270 C TO- 13A	<0.20				1 (Annual)		

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Save Environment, Save Future

JAMSHEDPUR CHLORO-CHEM PVT. LTD.

*Signature*  
DIRECTOR





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## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5134-Rev-001	Report Release Date	: 20.11.2021
ULR No.	: TC883921000000779P		

### TEST REPORT

Parameter	Unit	Test Protocol	Result	Regulatory Limit
Carbon Monoxide (CO)	mg/m <sup>3</sup>	EPA 600/P-99/001F	1.8	2 (8hrs)

Remarks: 1. (\*) - Parameters are out sourced to NABL Accredited Lab.  
2. This report cancels and supersedes the Report No.-ELES/RNC/2021/5134 dated 01.11.2021 issued by ELES Pvt. Ltd.

Authorized Signatory  
**SANDIP BERA**  
SENIOR MANAGER  
ELES PVT. LTD.

\*\*\*\*End of Report\*\*\*\*

Authorized Signatory  
**Dr. Deependra Kumar Sinha**  
Ph. D. Environmental Engg.  
ELES Pvt. Ltd. Technical Manager

Page 3 of 3

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"Saving Environment will only save the Future"

JAMSHEDPUR CHLORO CHEM PVT. LTD.

DIRECTOR





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Environmental Pollution Monitoring & Analysis

CV: U74999MH2018PTC011325

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5133-Rev-001	Report Release Date	: 20.11.2021
ULR No.	: TC883921000000778P		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Jamshedpur Chlorochem Pvt. Ltd.	Sample Ref. No.	: ELES/RNC/2021/AA/969
Address	: Plot No.-NS-88, VI <sup>th</sup> Phase	Location	: North West Corner of Plant
	: Adityapur Industrial Area, Dist.- Saraikela Kharsawan	Sampling Date	: 21.09.2021 to 22.09.2021
Plant Status	: Operational	Sample Received Date	: 23.09.2021
		Type of Sample	: Ambient Air
Period of Analysis	: 23.09.2021 to 30.10.2021	Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C)	: 32	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 65	4	Weather Condition	: Partly Cloudy
5	Longitude	: 86°07'16.98"E	6	Latitude	: 22°47'51.71"N
7	NABL Group	: Atmospheric Pollution	8	Discipline	: Chemical

## TEST REPORT

NABL Accredited Tests										
Parameter	Unit	Test Protocol	Result				Regulatory Limit			
			Duration			24hrs. Avg.				
Particulate Matter (PM10)	µg/m <sup>3</sup>	IS 5182 (Part-23): 2006; RA2017	Duration			24hrs. Avg.	100 (24hrs)			
			10:00 - 18:00	18:07 - 02:01	02:09 - 10:00					
			91	80	87					
Sulphur Di-Oxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-2): 2001; RA2017	Duration				24hrs. Avg.	80 (24hrs)		
			10:00 - 14:09	14:09 - 18:00	18:07 - 22:10	22:10 - 02:01			02:09 - 06:15	11.2
			10.9	10.1	9.4	9.1			10.7	
Nitrogen Di-Oxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-6): 2001; RA2017	Duration				24hrs. Avg.	80 (24hrs)		
			10:00 - 14:09	14:09 - 18:00	18:07 - 22:10	22:10 - 02:01			02:09 - 06:15	
			26.5	26.4	23.7	23.5			26.5	29.8

Page 1 of 3

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JAMSHEDPUR CHLOROCEM PVT. LTD.

*Ausgh*  
DIRECTOR





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Environmental Pollution Monitoring & Analysis

CIN: U74200MH2018PTC011125

GST NO:- 20AAECE97130124 P : 0651-2290103, 9931289453

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5133-Rev-001	Report Release Date	: 20.11.2021
ULR No.	: TC883921000000778P		

### TEST REPORT

NABL Accredited Tests										
Parameter	Unit	Test Protocol	Result				Regulatory Limit			
			Duration			24hrs. Avg.				
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-9): 1974; RA2014	Duration			24hrs. Avg.	100 (8hrs)			
			10:00 - 18:00	18:07 - 02:01	02:09 - 10:00	<20.0				
			<20.0	<20.0	<20.0					
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	401; Methods of Air Sampling & Analysis	Duration				24hrs. Avg.	400 (24hrs)		
			10:00 - 14:00	14:09 - 18:00	18:07 - 22:10	22:10 - 02:01	02:09 - 06:15		06:15 - 10:00	<10.0
			<10.0	<10.0	<10.0	<10.0	<10.0		<10.0	
Particulate Matter (PM-2.5)	µg/m <sup>3</sup>	USEPA CFR40	50				60 (24hrs)			
Lead (Pb)*	µg/m <sup>3</sup>	IS 5182 (Part-22): 2004	0.02				1 (24hrs)			
Nickel (Ni)*	ng/m <sup>3</sup>	SO-IN-MUL-TE-075	<2.0				20 (Annual)			
Arsenic (As)*	ng/m <sup>3</sup>	SO-IN-MUL-TE-075	4.8				6 (Annual)			
Benzene (C <sub>6</sub> H <sub>6</sub> )*	µg/m <sup>3</sup>	ASTM D3687:2007	<2.0				5 (Annual)			
Benzo-(a)-Pyrene*	ng/m <sup>3</sup>	USEPA 8270 C TO-13A	<0.20				1 (Annual)			

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# ENVIRONMENTAL LABORATORIES &



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GST NO:- 20AAECE97130124 / : 0651-2290103, 9931289451

ENGINEERING SERVICES PVT. LTD.

ISO 9001:2015 CERTIFIED, OHSAS 18001:2007 CERTIFIED

NABL Accredited & JSPCB Certified Lab. for  
Environmental Pollution Monitoring & Analysis

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5133-Rev-001	Report Release Date	: 20.11.2021
ULR No.	: TC883921000000778P		

### TEST REPORT

Parameter	Unit	Test Protocol	Result	Regulatory Limit
Carbon Monoxide (CO)	mg/m <sup>3</sup>	EPA 600/P-99/001F	1.38	2 (8hrs)

Remarks: 1. (\*) - Parameters are out sourced to NABL Accredited Lab.

2. This report cancels and supersedes the Report No.-ELES/RNC/2021/5133 dated 01.11.2021 issued by ELES Pvt. Ltd.

Authorized Signatory  
**SANDIP BERA**  
SENIOR MANAGER  
ELES PVT. LTD.

\*\*\*\*End of Report\*\*\*\*

Authorized Signatory  
**Dr. Deependra Kumar Sinha**  
Ph. D. Environmental Engg.  
ELES Pvt. Ltd. Technical Manager

Page 3 of 3

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"Saving Environment will only save the Future"

JAMSHEDPUR CHLORO CHEM PVT. LTD.

  
DIRECTOR





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NABL Accredited & JSPCB Certified Lab. for  
Environmental Pollution Monitoring & Analysis

CIN: U74999JK2018PTC011225

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5135-Rev-001	Report Release Date	: 20.11.2021
ULR No.	: TC883921000000780P		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Jamshedpur Chlorochem Pvt. Ltd.	Sample Ref. No.	: ELES/RNC/2021/AA/971
Address	: Plot No.-NS-88, VI <sup>th</sup> Phase	Location	: North East Corner of Plant
	Adityapur Industrial Area, Dist.- Saraikela Kharsawan	Sampling Date	: 21.09.2021 to 22.09.2021
Plant Status	: Operational	Sample Received Date	: 23.09.2021
		Type of Sample	: Ambient Air
Period of Analysis	: 23.09.2021 to 30.10.2021	Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C)	: 32	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 65	4	Weather Condition	: Partly Cloudy
5	Longitude	: 86°07'16.98"E	6	Latitude	: 22°47'19.43"N
7	NABL Group	: Atmospheric Pollution	8	Discipline	: Chemical

### TEST REPORT

NABL Accredited Tests										
Parameter	Unit	Test Protocol	Result				Regulatory Limit			
Particulate Matter (PM10)	µg/m <sup>3</sup>	IS 5182 (Part-23): 2006; RA2017	Duration			24hrs. Avg.	100 (24hrs)			
			10:10 - 18:10	18:17 - 02:00	02:18 - 10:05	78				
			88	76	70					
Sulphur Di-Oxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-2): 2001; RA2017	Duration			24hrs. Avg.	80 (24hrs)			
			10:10 - 14:10	14:10 - 18:10	18:17 - 22:10	22:10 - 02:00		02:18 - 06:12	06:12 - 10:05	10.6
			10.3	9.7	11.4	9.7		10.7	11.7	
Nitrogen Di-Oxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-6): 2001; RA2017	Duration			24hrs. Avg.	80 (24hrs)			
			10:10 - 14:10	14:10 - 18:10	18:17 - 22:10	22:10 - 02:00		02:18 - 06:12	06:12 - 10:05	26.7
			27.0	23.4	29.7	23.3		26.9	30.1	

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JAMSHEDPUR CHLORO-CHEM PVT. LTD.

*Signature*  
DIRECTOR





# ENVIRONMENTAL LABORATORIES &



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GST NO:- 20AAECE9713D124 V : 0651-2290103, 9931289451

ENGINEERING SERVICES PVT. LTD.

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## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5135-Rev-001	Report Release Date	: 20.11.2021
ULR No.	: TC883921000000780P		

### TEST REPORT

NABL Accredited Tests										
Parameter	Unit	Test Protocol	Result				Regulatory Limit			
			Duration			24hrs. Avg.				
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-9): 1974; RA2014	Duration			24hrs. Avg.	100 (8hrs)			
			10:10 - 18:10	18:17 - 02:00	02:18 - 10:05	<20.0				
			<20.0	<20.0	<20.0					
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	401; Methods of Air Sampling & Analysis	Duration				24hrs. Avg.	400 (24hrs)		
			10:10 - 14:10	14:10 - 18:10	18:17 - 22:10	22:10 - 02:00	02:18 - 06:12		06:12 - 10:05	<10.0
			<10.0	<10.0	<10.0	<10.0	<10.0		<10.0	
Particulate Matter (PM-2.5)	µg/m <sup>3</sup>	USEPA CFR40	45				60 (24hrs)			
Lead (Pb)*	µg/m <sup>3</sup>	IS 5182 (Part-22): 2004	<0.01				1 (24hrs)			
Nickel (Ni)*	ng/m <sup>3</sup>	SO-IN-MUL-TE-075	<2.0				20 (Annual)			
Arsenic (As)*	ng/m <sup>3</sup>	SO-IN-MUL-TE-075	3.7				6 (Annual)			
Benzene (C <sub>6</sub> H <sub>6</sub> )*	µg/m <sup>3</sup>	ASTM D3687:2007	<2.0				5 (Annual)			
Benzo-(a)-Pyrene*	ng/m <sup>3</sup>	USEPA 8270 C TO- 13A	<0.20				1 (Annual)			

Page 2 of 3

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JAMSHEDPUR CHLORO CHEM PVT. LTD.

*[Signature]*  
-DIRECTOR





# ENVIRONMENTAL LABORATORIES &



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## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No. : ELES/RNC/2021/5135-Rev-001	Report Release Date : 20.11.2021
ULR No. : TC883921000000780P	

### TEST REPORT

Parameter	Unit	Test Protocol	Result	Regulatory Limit
Carbon Monoxide (CO)	mg/m <sup>3</sup>	EPA 600/P-99-001F	1.88	2 (8hrs)

Remarks: 1. (\*) - Parameters are out sourced to NABL Accredited Lab.  
2. This report cancels and supersedes the Report No.-ELES/RNC/2021/5135 dated 01.11.2021 issued by ELES Pvt. Ltd.

*Authorized Signatory*  
**SANDIP BERA**  
SENIOR MANAGER  
ELES PVT. LTD.

\*\*\*\*End of Report\*\*\*\*

*Authorized Signatory*  
**Dr. Deependra Kumar Sinha**  
Ph. D. Environmental Engg.  
ELES Pvt. Ltd. Technical Manager

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JAMSHEDPUR CHLORO-CHEM PVT. LTD.

DIRECTOR





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## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5132-Rev-001	Report Release Date	: 20.11.2021
ULR No.	: TC883921000000777P		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Jamshedpur Chlorochem Pvt. Ltd.	Sample Ref. No.	: ELES/RNC/2021/AA/968
Address	: Plot No.-NS-88, VI <sup>th</sup> Phase	Location	: Near Transformer Room
	: Adityapur Industrial Area, Dist.- Saraikela Kharsawan	Sampling Date	: 21.09.2021 to 22.09.2021
Plant Status	: Operational	Sample Received Date	: 23.09.2021
		Type of Sample	: Ambient Air
Period of Analysis	: 23.09.2021 to 30.10.2021	Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C)	: 32	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 65	4	Weather Condition	: Partly Cloudy
5	Longitude	: 86°07'19.93"E	6	Latitude	: 22°47'50.85"N
7	NABL Group	: Atmospheric Pollution	8	Discipline	: Chemical

### TEST REPORT

NABL Accredited Tests									
Parameter	Unit	Test Protocol	Result				Regulatory Limit		
Particulate Matter (PM10)	µg/m <sup>3</sup>	IS 5182 (Part-23): 2006; RA2017	Duration			24hrs. Avg.	100 (24hrs)		
			10:23 - 18:18	18:24 - 02:19	02:35 - 10:19	83			
			86	89	74				
Sulphur Di-Oxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-2): 2001; RA2017	Duration				24hrs. Avg.	80 (24hrs)	
			10:23 - 14:27	14:27 - 18:18	18:24 - 22:26	22:26 - 02:19	02:35 - 06:21		10.4
			10.7	11.2	9.7	9.1	10.7		
Nitrogen Di-Oxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-6): 2001; RA2017	Duration				24hrs. Avg.	80 (24hrs)	
			10:23 - 14:27	14:27 - 18:18	18:24 - 22:26	22:26 - 02:19	02:35 - 06:21		26.5
			26.5	29.8	23.5	22.8	26.4		

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JAMSHEDPUR CHLOROCEM PVT. LTD.

DIRECTOR





# ENVIRONMENTAL LABORATORIES &



ENGINEERING SERVICES PVT. LTD.

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Environmental Pollution Monitoring & Analysis

DN: U7498992018PTC011125

## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5132-Rev-001	Report Release Date	: 20.11.2021
ULR No.	: TC883921000000777P		

### TEST REPORT

NABL Accredited Tests										
Parameter	Unit	Test Protocol	Result				Regulatory Limit			
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-9): 1974; RA2014	Duration			24hrs. Avg.	100 (8hrs)			
			10:23 - 18:18	18:24 - 02:19	02:35 - 10:19	<20.0				
			<20.0	<20.0	<20.0					
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	401; Methods of Air Sampling & Analysis	Duration				24hrs. Avg.	400 (24hrs)		
			10:23 - 14:27	14:27 - 18:18	18:24 - 22:26	22:26 - 02:19	02:35 - 06:21		06:21 - 10:19	<10.0
			<10.0	<10.0	<10.0	<10.0	<10.0		<10.0	
Particulate Matter (PM-2.5)	µg/m <sup>3</sup>	USEPA CFR40	48				60 (24hrs)			
Lead (Pb)*	µg/m <sup>3</sup>	IS 5182 (Part-22): 2004	0.02				1 (24hrs)			
Nickel (Ni)*	ng/m <sup>3</sup>	SO-IN-MUL-TE-075	<2.0				20 (Annual)			
Arsenic (As)*	ng/m <sup>3</sup>	SO-IN-MUL-TE-075	5.0				6 (Annual)			
Benzene (C <sub>6</sub> H <sub>6</sub> )*	µg/m <sup>3</sup>	ASTM D3687:2007	<2.0				5 (Annual)			
Benzo-(a)-Pyrene*	ng/m <sup>3</sup>	USEPA 8270 C TO- 13A	<0.20				1 (Annual)			

Page 2 of 3

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Save Environment, Save Future

JAMSHEDPUR CHLORO-CHEM PVT. LTD.

*Signature*  
DIRECTOR





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## TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5132-Rev-001	Report Release Date	: 20.11.2021
ULR No.	: TC883921000000777P		

### TEST REPORT

Parameter	Unit	Test Protocol	Result	Regulatory Limit
Carbon Monoxide (CO)	mg/m <sup>3</sup>	EPA 600/P-99/001F	1.43	2 (8hrs)

Remarks: 1. (\*) - Parameters are out sourced to NABL Accredited Lab.

2. This report cancels and supersedes the Report No.-ELES/RNC/2021/5132 dated 01.11.2021 issued by ELES Pvt. Ltd.

Authorized Signatory  
**SANDIP BERA**  
SENIOR MANAGER  
ELES PVT. LTD.

\*\*\*\*End of Report\*\*\*\*

Authorized Signatory  
**Dr. Deependra Kumar Sinha**  
Ph. D. Environmental Engg.  
ELES Pvt. Ltd. Technical Manager

Page 3 of 3

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"Saving Environment will only save the Future"

JAMSHEDPUR CHLORO-CHEM PVT. LTD.

  
DIRECTOR





# ENVIRONMENTAL LABORATORIES &

ENGINEERING SERVICES PVT. LTD.

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA  
HATIA, RANCHI-834003 (JHARKHAND)

Email: info@elespl.co.in; eles.ranchi@gmail.com

Website: www.elespl.co.in

GST NO:- 20AAECE97130124 T: 0651-2299103, 9931289451



ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 CERTIFIED

NABL Accredited & ISPCB Certified Lab. for  
Environmental Pollution Monitoring & Analysis

## TEST REPORT OF NOISE QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5136	Report Release Date	: 26.10.2021
ULR No.	: TC883921000000781F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Jamshedpur Chlorochem Pvt. Ltd.	Sample Date	: 21.09.2021 to 22.09.2021
Address	: B Plot No.-NS-88, VI <sup>th</sup> Phase Adityapur Industrial Area, Dist.- Saraikela Kharsawan	Sampling Received Date	: 23.09.2021
		Type of Sample	: Ambient Noise
		Sampling procedure	: ELES/DOC/SMPL/03
		Sample Drawn By	: ELES Pvt. Ltd.
Plant Status	: Operational	Period of Analysis	: 23.09.2021 to 08.10.2021

### METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	: 32	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 65	4	Weather Condition	: Partly Cloudy

### TEST REPORT

Location	Unit	Test Protocol	Result			Regulatory Limit		
			Time	L <sub>Max</sub>	L <sub>Min</sub>		L <sub>eq</sub>	
Roof of the Office	dB(A)	IS 9989:1981, RA 2001	Day Time	65.3	57.4	75 dB(A) Day Time & 70 dB(A) Night Time		
Sample ID: ELES/RNC/2021/AN/972			Night Time	51.0	45.6		48	
Latitude:22°47'49.43"N			Longitude:86°07'16.98"E					
Near Transformer Room	dB(A)	IS 9989:1981, RA 2001	Day Time	70.1	59.8		70 dB(A) Night Time	
Sample ID: ELES/RNC/2021/AN/973			Night Time	59.2	46.2			52
Latitude:22°47'50.85"N			Longitude:86°07'19.93"E					

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"Save Environment, Save Future"

JAMSHEDPUR CHLORO-CHEM PVT. LTD.

*Signature*  
DIRECTOR





# ENVIRONMENTAL LABORATORIES &



ENGINEERING SERVICES PVT. LTD.

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA  
HATIA, RANCHI-834003 (JHARKHAND)  
Email: info@elespl.co.in; eles.ranchi@gmail.com  
Website: www.elespl.co.in  
GST NO:- 20AAECE9713D124 / : 0651-2290103, 9931289451


ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 CERTIFIED  
NABL Accredited & JSPCB Certified Lab. for  
Environmental Pollution Monitoring & Analysis

## TEST REPORT OF NOISE QUALITY MONITORING

Test Report No. : ELES/RNC/2021/5136	Report Release Date : 26.10.2021
ULR No. : TC883921000000781F	

### TEST REPORT

Location	Unit	Test Protocol	Result			Regulatory Limit	
			Time	L <sub>Max</sub>	L <sub>Min</sub>		L <sub>eq</sub>
North West Corner of Plant	dB(A)	IS 9989:1981, RA 2001	Day Time	64.5	52.4	62	75 dB(A) Day Time & 70 dB(A) Night Time
Sample ID: ELES/RNC/2021/AN/974			Night Time	51.8	45.9	49	
Latitude:22°47'51.71"N			Longitude:86°07'16.98"E				
North East Corner of Plant	dB(A)	IS 9989:1981, RA 2001	Day Time	63.2	51.2	60	
Sample ID: ELES/RNC/2021/AN/975			Night Time	49.9	43.0	47	
Latitude:22°47'49.43"N			Longitude:86°07'16.98"E				

  
**Authorized Signatory**  
**SANDIP BERA**  
 SENIOR MANAGER  
 ELES PVT. LTD.

\*\*\*\*End of Report\*\*\*\*

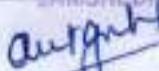
  
**Authorized Signatory**  
**Dr. Deependra Kumar Sinha**  
 Ph. D. Environmental Engg.  
 ELES Pvt. Ltd. Technical Manager

Page 2 of 2

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"Save Environment, Save Future"

JAMSHEDPUR CHLORO-CHEM PVT. LTD.



DIRECTOR





# ENVIRONMENTAL LABORATORIES &



ENGINEERING SERVICES PVT. LTD.

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA HATIA, RANCHI-834003 (JHARKHAND)

Email: info@elespl.co.in; eles.ranchi@gmail.com

Website: www.elespl.co.in

GST NO:- 20AAECE9713D124 C : 0651-2290103, 9931289431

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 CERTIFIED

NABL Accredited & JSPCB Certified Lab. for Environmental Pollution Monitoring & Analysis

CIN: U74999JH2018PTC011135

## TEST REPORT OF WATER QUALITY

Test Report No.	: ELES/RNC/2021/5137	Report Release Date	: 01.11.2021
ULR No.	: TC883921000000782F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Jamshedpur Chlorochem Pvt.Ltd.	Sample Ref. No.	: ELES/RNC/2021/DW/976
Address	: Plot No.-NS-88, Vllth Phase Adityapur Industrial Area, Dist- Saraikela Kharsawan	Sampling Date	: 21.09.2021
Plant Status	: Operational	Sample Received Date	: 23.09.2021
Period of Analysis	: 23.09.2021 to 04.10.2021	Type of Sample	: Drinking Water
		Source of Sample	: Supply Water, Near Office
		Sampling Procedure	: ELES/DOC/SMPL/01
		Sample Collected By	: ELES Pvt.Ltd
		Sample Condition	: Sealed & Preserved

## TEST REPORT

Parameter	Unit	Test Protocol	Result	Regulatory Limits as per IS 10500:2012 (Permissible)
pH (at 25.4°C)	-	APHA 23 <sup>rd</sup> Edition 2017, 4500H <sup>+</sup> B	6.94	6.5-8.5
Turbidity	NTU	APHA 23 <sup>rd</sup> Edition 2017, 2130 B	1.79	5
Conductivity (at 25.0°C)	µS/cm	APHA 23 <sup>rd</sup> Edition 2017, 2510 B	758	-
Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS 3025 (Part-23):1986; RA2014	150.1	600
Chloride as Cl	mg/l	IS 3025 (Part-32):1988; RA2014	114.9	1000
Total Hardness as CaCO <sub>3</sub>	mg/l	APHA 23 <sup>rd</sup> Edition 2017, 2340 C	194	600
Sulphate ( as SO <sub>4</sub> <sup>2-</sup> )	mg/l	APHA 23 <sup>rd</sup> Edition 2017, 4500-SO <sub>4</sub> <sup>2-</sup> -E	10.5	400
Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16):1984; RA2017	492	2000
Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17):1984; RA2017	<1.0	1.5
Iron as Fe	mg/l	APHA 23 <sup>rd</sup> Edition 2017,3111 B & C	0.146	1.0

Remarks: 1. pH done at Lab.

*Sandip Bera*  
Authorized Signatory  
**SANDIP BEKA**  
SENIOR MANAGER  
ELES PVT. LTD.

\*\*\*\*End of Report\*\*\*\*

Page 1 of 1

*Dr. Deependra Kumar Sinha*  
Authorized Signatory  
Dr. Deependra Kumar Sinha  
Ph. D. Environmental Engg.  
ELES Pvt. Ltd. Technical Manager

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"Save Environment, Save Future"

JAMSHEDPUR CHLOROCEM PVT. LTD.

*Outgubh*  
DIRECTOR





# ENVIRONMENTAL LABORATORIES &



PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA  
HATIA, RANCHI-834003 (JHARKHAND)

Email: info@elespl.co.in; eles.ranchi@gmail.com

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GST NO: 20AAECE9713D124 T: 0651-2290103, 9931289451

ENGINEERING SERVICES PVT. LTD.

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 CERTIFIED

NABL Accredited & JSPCB Certified Lab. for  
Environmental Pollution Monitoring & Analysis

CIN: U74999JH2018PTC011125

## TEST REPORT OF WATER QUALITY

Test Report No.	: ELES/RNC/2021/5137	Report Release Date	: 01.11.2021
ULR No.	: TC883921000000782F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Jamshedpur Chlorochem Pvt.Ltd.	Sample Ref. No.	: ELES/RNC/2021/DW/976
Address	: Plot No.-NS-88, VIth Phase	Sampling Date	: 21.09.2021
	Adityapur Industrial Area, Dist.- Saraikela Kharsawan	Sample Received Date	: 23.09.2021
Plant Status	: Operational	Type of Sample	: Drinking Water
Period of Analysis	: 23.09.2021 to 04.10.2021	Source of Sample	: Supply Water, Near Office
		Sampling Procedure	: ELES/DOC/SMPL/01
		Sample Collected By	: ELES Pvt.Ltd
		Sample Condition	: Sealed & Preserved

## TEST REPORT

Parameter	Unit	Test Protocol	Result	Regulatory Limits as per IS 10500:2012 (Permissible)
pH (at 25.4°C)	-	APHA 23 <sup>rd</sup> Edition 2017, 4500H <sup>+</sup> B	6.94	6.5-8.5
Turbidity	NTU	APHA 23 <sup>rd</sup> Edition 2017, 2130 B	1.79	5
Conductivity (at 25.0°C)	µS/cm	APHA 23 <sup>rd</sup> Edition 2017, 2510 B	758	-
Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS 3025 (Part-23):1986; RA2014	150.1	600
Chloride as Cl	mg/l	IS 3025 (Part-32):1988; RA2014	114.9	1000
Total Hardness as CaCO <sub>3</sub>	mg/l	APHA 23 <sup>rd</sup> Edition 2017, 2340 C	194	600
Sulphate ( as SO <sub>4</sub> <sup>2-</sup> )	mg/l	APHA 23 <sup>rd</sup> Edition 2017, 4500-SO <sub>4</sub> <sup>2-</sup> -E	10.5	400
Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16):1984; RA2017	492	2000
Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17):1984; RA2017	<1.0	1.5
Iron as Fe	mg/l	APHA 23 <sup>rd</sup> Edition 2017,3111 B & C	0.146	1.0

Remarks: 1. pH done at Lab.

Authorized Signatory  
**SANDIP BEKA**  
SENIOR MANAGER  
ELES PVT. LTD.

\*\*\*\*End of Report\*\*\*\*

Authorized Signatory  
**Dr. Deependra Kumar Sinha**  
Ph. D. Environmental Engg.  
ELES Pvt. Ltd. Technical Manager

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"Save Environment, Save Future"

JAMSHEDPUR CHLOROCEM PVT. LTD.

Authorized Signatory  
**DIRECTOR**







**JAMSHEDPUR CHLOROCEM PVT. LTD.**  
NS-88, 6TH PHASE, ADITYAPUR INDUSTRIAL AREA,  
GAMHARIA, SARAIKELA - KHARSWAN - 832108  
GSTIN :- 20AABCJ2158A1ZF

Sl. No.	Name
1	AHILYA NAYAK
2	BEHULA MUDI
3	BINANDA ROUTH
4	BUDHANI ORAON
5	DASMI KHALKHO
6	HARI RAWANI
7	JOSNA MUNDA SARDAR
8	KRISHNA LOHAR
9	LACHHO KHALKHO
10	SABITA KAJBARTA
11	SANTOSH MAHATO
12	SARSWATI RUIDAS
13	SAVITRA KERKETTA
14	SHANKAR MAHATO
15	SHYAM GAGRAI
16	SONKA GOSWAMI
17	SUCHITRA DEVI
18	SULEKHA GIRI
19	SUNITA KHALKHO
20	URMILA KAIVART
21	SURAJIT MANDAL
22	SUBRATA BADYAKAR
23	SHASHIKANT YADAV
24	RAJU RAWANI
25	MANI LAL



**JAMSHEDPUR CHLOROCEM PVT. LTD.**

*Aurghat*  
**DIRECTOR**



ANNEXURE - 9

**Jamshedpur Chlorochem Pvt. Ltd.**

NS-88, Vth Phase  
Adityapur Industrial Area  
Gamharie-832108  
JHARKHAND (JH)  
CIN - U24220JH1999PTC008858

**Consumables PPE (Safety Mat. for Labor)**  
Ledger Account

1-Apr-2021 to 30-Sep-2021

Page 1

Date	Particulars	Vch Type	Vch No.	Debit	Credit
8-4-2021	To PK Traders	Journal	25	3,000.00	
12-4-2021	To Gamaria Trade Centre	Journal	33	250.00	
14-4-2021	To Gamaria Trade Centre	Journal	37	1,020.00	
21-4-2021	To Gamaria Trade Centre	Journal	52	510.00	
23-4-2021	To PK Traders	Journal	56	3,300.00	
5-5-2021	To M. R. Enterprises	Journal	101	10,620.00	
6-5-2021	To Gamaria Trade Centre	Journal	104	510.00	
11-5-2021	To PK Traders	Journal	108	3,300.00	
	To Gamaria Trade Centre	Journal	109	2,250.00	
24-5-2021	To PK Traders	Journal	130	3,300.00	
31-5-2021	To PK Traders	Journal	142	1,488.00	
2-6-2021	To M. R. Enterprises	Journal	167	13,050.00	
	To M. R. Enterprises	Journal	168	9,900.00	
9-6-2021	To PK Traders	Journal	185	3,300.00	
19-6-2021	To PK Traders	Journal	200	3,300.00	
25-6-2021	To PK Traders	Journal	214	3,300.00	
3-7-2021	To M. R. Enterprises	Journal	257	10,800.00	
	To Gamaria Trade Centre	Journal	259	900.00	
7-7-2021	To PK Traders	Journal	268	3,300.00	
15-7-2021	To PK Traders	Journal	292	3,300.00	
17-7-2021	To PK Traders	Journal	297	3,600.00	
20-7-2021	To PK Traders	Journal	300	10,800.00	
21-7-2021	To PK Traders	Journal	305	3,300.00	
	To Gamaria Trade Centre	Journal	308	2,250.00	
31-7-2021	To PK Traders	Journal	339	3,300.00	
10-8-2021	To PK Traders	Journal	386	14,400.00	
12-8-2021	To PK Traders	Journal	396	3,300.00	
23-8-2021	To PK Traders	Journal	423	3,300.00	
30-8-2021	To PK Traders	Journal	442	3,300.00	
8-9-2021	To PK Traders	Journal	488	14,400.00	
10-9-2021	To PK Traders	Journal	491	5,220.00	
22-9-2021	To PK Traders	Journal	523	3,300.00	
				1,51,168.00	
	By Closing Balance				1,51,168.00
				<b>1,51,168.00</b>	<b>1,51,168.00</b>

JAMSHEDPUR CHLOROCEM PVT. LTD.

  
DIRECTOR



**Jamshedpur Chlorochem Pvt. Ltd.**

NS-88, VIth Phase  
Adityapur Industrial Area  
Gemharia-832108  
JHARKHAND (JH)  
CIN - U24220JH1999PTC008858

**PPE (Cash Pur.)**  
Ledger Account

1-Apr-2021 to 18-Nov-2021

Date	Particulars	Vch Type	Vch No.	Debit	Credit
3-4-2021	To Cash	Payment	39	250.00	
23-4-2021	To Cash	Payment	307	1,440.00	
	To Cash	Payment	308	504.00	
18-5-2021	To Cash	Payment	577	1,440.00	
3-7-2021	To Cash	Payment	1174	800.00	
10-7-2021	To Cash	Payment	1266	3,045.00	
8-9-2021	To Cash	Payment	2168	2,700.00	
				10,179.00	
	By Closing Balance				10,179.00
				10,179.00	10,179.00

JAMSHEDPUR CHLOROCEM PVT. LTD.

*Signature*  
DIRECTOR



**JAMSHEDPUR CHLOROCEM PVT. LTD.**

MANUFACTURER OF HYDRATED LIME

Office & Works : Plot No NS-88, Vith Phase, Adityapur Ind. Area, Gamharia - 832108, Dist. - Seraikela-Kharsawan, Jharkhand  
Cell : 9431182371, 9031992253, E-mail : jsrchlorochem@gmail.com  
CIN : U24220JH1999PTC008858

Date: 25.04.2018

**ENVIRONMENT POLICY**

JAMSHEDPUR CHLOROCEM PRIVATE LIMITED (JCPL) is engaged in production of Low Carbon Ferro Alloys and Noble Ferro Alloys products are committed towards clean and sustainable environment. The mission of JCPL is to produce Low Carbon Ferro Alloys and Noble Ferro Alloys in an environment friendly manner and is striving to;

- Integrate sound environmental management practices in all the activities.
- Conduct the operations in environmentally responsible manner to minimize pollution and its' impact on environment.
- Comply with applicable legal and other requirements related to environmental aspects of the operations and strive to go beyond. The environmental management cell will be headed by EHS Manager, a well qualified and experienced environment engineer.
- JCPL shall ensure that deviations from this policy and cases of violations/non-compliances of Environment or Forest Laws, if any, shall be reported to the Board of Directors through EHS Manager and shall identify designate responsible person for ensuring compliance with the Environmental Laws and Regulations.
- Conserve energy, and other natural resources, minimize waste generation and promote recovery, recycle and reuse.
- Increase greenery in and around the plant.
- Ensure continual improvement in environmental performance by setting & reviewing objectives & targets.

JAMSHEDPUR CHLOROCEM PVT. LTD.

  
Director

1

JAMSHEDPUR CHLOROCEM PVT. LTD.

  
DIRECTOR





# JAMSHEDPUR CHLOROCEM PVT. LTD.

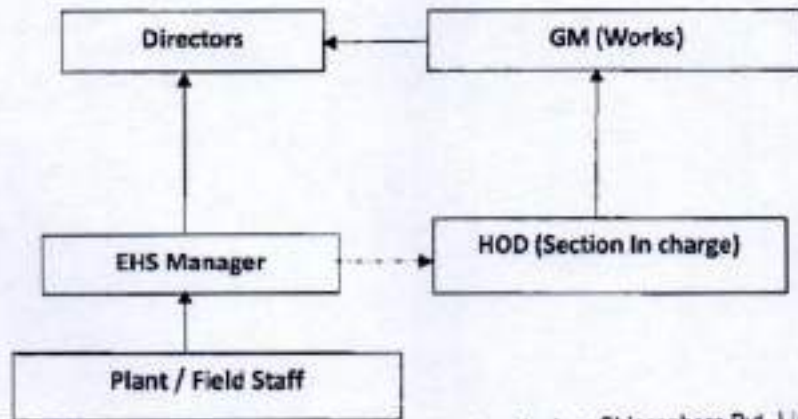
MANUFACTURER OF HYDRATED LIME

Office & Works : Plot No. NS-88, Vith Phase, Adityapur Ind. Area, Gamhara - 832108, Dist. - Seraikela-Kharsawan, Jharkhand  
Cell : 9431182371, 9031992253, E-mail : jsrchlorochem@gmail.com  
CIN : U24220JH1999PTC008858

- Environmental awareness amongst employees working for and on behalf of JCPL and the general populace around the plant.

### Hierarchical systems - environmental issues and for ensuring compliance

Company EHS cell is responsible for the compliance of the environmental conditions. The Environmental Manager will functionally report to HOD, however for environmental matters he will directly report to the Director.



For Jamshedpur Chlorochem Pvt. Ltd.

*Manoj Gutgia*  
For and on behalf of Director.

JAMSHEDPUR CHLOROCEM PRIVATE LIMITED

MR. MANOJ GUTGUTIA

(Director)

DIN: 02823680

JAMSHEDPUR CHLOROCEM PVT. LTD.

*Manoj Gutgia*  
Director





# JAMSHEDPUR CHLOROCEM PVT. LTD.

NS-88, VITH PHASE, ADITYAPUR INDUSTRIAL AREA  
GAMHARIA, SARAİKELA-KHARSAWAN-832108

## ENVIRONMENT POLICY

At the Jamshedpur Chlorochem Pvt. Ltd. We are committed to the implementation of proactive measures to help protect and sustain the environment for future generations.

We recognize the impact of our operations on the environment and aim to minimize any detrimental effects that may occur. By working together, we can contribute to making a cleaner and safer environment and ensure that environmental issues remain a focal point and receive proper attention.

In delivering our commitment we will:

- Comply with relevant environmental legislation and take a proactive approach to future requirements and obligations,
- Seek to conserve natural resources through the responsible use of energy, water and materials but also by maintaining the quality of service expected by our customers,
- Monitor performance and aim for continued improvement by reducing, re-using and recycling in areas such as energy consumption, reduction of waste materials and water consumption,
- Work with suppliers who have compatible policies for managing their impact on the environment.
- Be aware of our environmental impact and will always strive to have life cycle approach.

Date: 20.11.2019

Manoj Kumar Gutgutia  
Managing Director

JAMSHEDPUR CHLOROCEM PVT. LTD.

*Manoj Kumar Gutgutia*  
Director

JAMSHEDPUR CHLOROCEM PVT. LTD.

*Manoj Kumar Gutgutia*  
DIRECTOR



**ANNEXURE-11**

**EMP EXPENDITURE**  
**PERIOD : 01.04.2021 TO 30.09.2021**

**REPAIR & MAINTENANCE FOR POLLUTION CONTROL EQUIPMENT:-**

	<u>Particulars</u>	<u>Amount (Rs.)</u>	<u>Amount (Rs.)</u>
A)	Salary for 6 month of 4 Maintenance Staff	4,34,000.00	
B)	Expenses incurred on Repair & Maint. period 01.04.2021 to 30.09.2021	<u>10,27,602.00</u>	14,61,602.00

**PLANTATION EXPENSES FOR POLLUTION CONTROL MEASURES:-**

A)	Salary for Gardener 6 months	72,000.00	
B)	Tree Plantation Expenses	<u>3,800.00</u>	75,800.00
		<b>Total</b>	<b><u>15,37,402.00</u></b>

JAMSHEDPUR CHLORO-CHEM PVT. LTD.

*Signature*  
DIRECTOR



**ANNEXURE-11**

**EMP EXPENDITURE  
PERIOD : 01.10.2019 TO 30.09.2021**

**REPAIR & MAINTENANCE FOR POLLUTION CONTROL EQUIPMENT:-**

	<u>Particulars</u>	<u>Amount (Rs.)</u>	<u>Amount (Rs.)</u>
A)	Salary for Maintenance Staff from 01.10.2019 to 30.09.2021	13,24,000.00	
B)	Expenses incurred on Repair & Maint. period 01.10.2019 to 30.09.2021	<u>22,44,325.00</u>	35,68,325.00

**PLANTATION EXPENSES FOR POLLUTION CONTROL MEASURES:-**

A)	Salary for Gardener from 01.10.2019 to 30.09.2021	2,28,000.00	
B)	Tree Plantation Expenses from 01.10.2019 to 30.09.2021	<u>15,895.00</u>	2,43,895.00
		<b>Total</b>	<b><u>38,12,220.00</u></b>

JAMSHEDPUR CHLOROCEM PYT. LTD.

  
DIRECTOR



FORM-V

ENVIRONMENTAL STATEMENT REPORT FOR THE YEAR ENDING 31<sup>ST</sup> MARCH 2021

PART-A

- (i) Name and address of the occupier of the industry / operation or process. : Jamsheedpur Chlorochem Pvt. Ltd.  
NS-88, Vith Phase, Adityapur Industrial Area, P.O - Gamharia- 832108
- Industry Category : SSI Unit
- Primary (SIC code) : -
- Secondary (SIC Code) : Ferro Alloy
- (ii) Production Category (Units)
- a) Ferro Chrome / Ferro Manganese : 3600 TPA
- b) Ferro Molybdenum : 1200 TPA
- c) Ferro Vanadium : 1200 TPA
- (iii) Year of establishment : 10.01.2020
- (iv) Date of last Environmental Statement submitted : 15.06.2020

PART- B

WATER AND RAW MATERIAL CONSUMPTION

- (A) Water Consumption : 0.800 KLD
- Process : 0.000 KLD
- Cooling : 0.000 KLD
- Domestic and other : 0.800 KLD

Name of the product	Process water consumption per unit of product output.	
	During the current financial year 2019-20	During the current financial year 2020-21
FERRO CHROME / FERRO-MANGANESE	Nil (Production-296.900 MT)	Nil (Production-1,658.310 MT)
FERRO MOLYBDENUM	Nil	Nil
FERRO VANADIUM	Nil	Nil

JAMSHEDPUR CHLOROCEM PVT. LTD.  
*Autograph*  
DIRECTOR



**(B) Raw Material Consumption :**

Name of Raw Material	Consumption of raw material per unit of output:	
	During the current financial year 2019-20 Total Production (Low Carbon Ferro Chrome) : 296.900 Tons	During the current financial year 2020-21 Total Production (Low Carbon Ferro Chrome) : 1,658.310 Tons
CHROME ORE	1.85 T/T	2.08 T/T
ALUMINIUM POWDER	0.26 T/T	0.25 T/T
ALUMINIUM SCRAP	0.47 T/T	0.53 T/T
M.S SCRAP	0.15 T/T	0.10 T/T

**PART- C**

**POLLUTION DISCHARGED TO ENVIRONMENT /UNIT OF OUTPUT (PARAMETER AS SPECIFIED IN THE CONSENT ISSUED)**

Pollutants	Quantity of pollutants Discharged (mass/day)	Concentrations of Pollutants Discharged (mass/volume)	Percentage of variation From prescribed Standards with reasons
(A) Water	No discharge of effluent.	NA	NA
(B) Air	Within norms as per the monitoring reports attached.		NA

**PART- D**

**HAZARDOUS WASTES**

**(AS SPECIFIED UNDER HAZARDOUS WASTES / MANAGEMENT AND HANDLING RULES, 1989)**

Hazardous Waste	Total Quantity (kg/years)
	During the current financial year 2020-21
(a) From process	Nil
(b) From Pollution Control	8.990 MT

JAMSHEDPUR CHLORO CHEM PVT. LTD.

*Aut g...*  
DIRECTOR



**PART - E**  
**SOLID WASTES**

Solid waste	Total Quality (t/year)	
	During the Current Financial year 2019-20	During the Current Financial year 2020-21
a) From process Slag (FN+LC)	487.080 T	3,062.550 T
(b) From pollution Control facility	Recycled	8,990 MT APCD Dust given to Adityapur Waste Management Pvt. Ltd.
Quantities recycled Or reutilized	340.950 M.T.	934.940 M.T.
Sold Disposed	122.910 M.T.	2099.400 M.T.
	Nil	Nil

**PART - F**

Characteristics of wastes and Indicative Disposal practice adopted

The slag generated from Low Carbon Ferro Chrome is used in lining of reactor vessel for production of Low Carbon Ferro Chrome & also sold to various customers. The APCD Dust generated is given to Adityapur Waste Management Pvt. Ltd., Dugni, Seraikela.

**PART - G**

Impact of pollution control measures on conservation of natural resources and consequently on the cost of production.

Fume extraction system with cyclone and bag filter has been installed and slag is stored / reused properly. PPE provided to worker, thus work zone environment is maintained, resulting in improved efficiency.

**PART - H**

Additional investment proposal for environment protection including abatement of pollution

Plantation, RWH, Regular maintenance of APCD & Water sprinkling is being continued for abatement of Pollution. Expenditure for implementation of EMP from 01.04.2021 to 30.09.2021 is Rs. 15, 37, 402.00 & 01.10.2019 to 31.09.2021 is Rs. 38, 12, 220.00.

**PART - I**

Any other particulars for improving in respect of environmental protection and abatement of pollution.

As per direction of the Pollution Control Board & Environment Clearance.

JAMSHEDPUR CHLORO CHEM PVT. LTD.

*Signature*  
DIRECTOR, *Signature of Applicant*

JAMSHEDPUR CHLORO CHEM PVT. LTD.

*Signature*  
DIRECTOR







**JAMSHEDPUR CHLOROCEM PVT.LTD.****NOTICE**

That M/s JAMSHEDPUR CHLOROCEM PVT.LTD. has been accorded Environmental Clearance (with 5 nos. of Specific conditions and 10 nos. of General conditions) by the Ministry of Environment, Forest & Climate Change, Government Of India, (New Delhi) vide F. No. J-11011/459/2017-IA-II (I), dated 24.12.2018 for production of 3600 TPA LC Ferro Chrome/ or LC Ferro Manganese, 1200 TPA Ferro Molybdenum & 1200 TPA Ferro Vanadium Plant at Plot No. NS-88 V/11 Phase, Adityapur Industrial Area, Baramulla -832108, District Seraikela-Kharsawan, Jharkhand and copies of the clearance letter are available with the AJADA, Municipal Council, Adityapur, Jharkhand State Pollution Control Board (JSPCB), Head Office at Ranchi & Regional Office at Adityapur. DC office, Seraikela-Kharsawan and may also be seen at Website of the Ministry of Environment and Forests, New Delhi, at <http://parivesh.nic.in>

Director

For Jamshedpur Chlorochem Pvt.Ltd

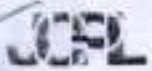
Date: 07.01.2019

JAMSHEDPUR CHLOROCEM PVT.LTD.

  
 Director



ANNEXURE-15



# JAMSHEDPUR CHLOROCEM PVT. LTD.

MANUFACTURER OF HYDRATED LIME

Office & Works Plot No NS-88 Vth Phase Adityapur Ind Area Gamharia - 832108, Dist - Seraikela-Kharsawan, Jharkhan  
Cell 9431182371 9031992253, E-mail jrchlorochem@gmail.com  
CIN U24220JH1999PTC008858

07.01.2019

*o/c*

To,  
The Regional Director,  
Jharkhand Industrial Area Development Authority,  
Adityapur Region,  
Adityapur

Sub: Submission of copy of **Environmental Clearance** for establishment of 3600 TPA LC Ferro Chrome/or LC Ferro Manganese, 1200 TPA Ferro Molybdenum & 1200 TPA Ferro Vanadium Plant of M/s Jamshedpur Chlorochem Pvt.Ltd. at Plot No. NS - 88.VIth Phase,Adityapur Industrial Area,Gamharia - 832 108, District Seraikela-Kharsawan.

Ref: MoEF & CC, New Delhi EC Letter vide F. No. J-11011/459/2017-IA II (I), dated 24.12.2018 - copy attached.

Sir,

With reference to above and as directed by the above mentioned Environmental Clearance condition, please find enclosed copy of our EC Letter F. No. J-11011/459/2017-IA II (I), dated 24.12.2018, as granted by MoEF & CC, New Delhi for establishment 3600 TPA LC Ferro Chrome/or LC Ferro Manganese, 1200 TPA Ferro Molybdenum & 1200 TPA Ferro Vanadium Plant of M/s Jamshedpur Chlorochem Pvt.Ltd. at Plot No. NS - 88.VIth Phase, Adityapur Industrial Area, Gamharia - 832 108, District Seraikela-Kharsawan.

This is for your information and needful.

Thanking you.

Yours Sincerely

For Jamshedpur Chlorochem Pvt.Ltd.

*Manoj Kumar Gutgutia*

( Manoj Kumar Gutgutia )

Director

Encl : As above.

*Recd  
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07/01/19, 11:05 AM  
20/20/19-2*

JAMSHEDPUR CHLOROCEM PVT. LTD.

*Manoj Kumar Gutgutia*  
Director

JAMSHEDPUR CHLOROCEM PVT. LTD.

*Manoj Kumar Gutgutia*  
DIRECTOR





# JAMSHEDPUR CHLOROCEM PVT. LTD.

MANUFACTURER OF HYDRATED LIME

Office & Works: Plot No NS-88, Vllth Phase, Adityapur Ind. Area, Gamharia - 832108, Dist - Seraikela-Kharsawan, Jharkhand  
Cell: 9431182371, 9031992253; E-mail: jscchlorochem@gmail.com  
CIN: U24220JH1999PTC008858

07.01.2019

To,  
The Regional Manager,  
Jharkhand State Pollution Control Board,  
Adityapur, Jamsheedpur.

Sub: Submission of copy of **Environmental Clearance** for establishment of 3600 TPA LC Ferro Chrome/or LC Ferro Manganese, 1200 TPA Ferro Molybdenum & 1200 TPA Ferro Vanadium Plant of M/s Jamsheedpur Chlorochem Pvt.Ltd. at Plot No. NS - 88, Vllth Phase, Adityapur Industrial Area, Gamharia - 832 108, District Seraikela-Kharsawan.

Ref: MoEF & CC, New Delhi: EC Letter: vide: F. No. J-11011/459/2017-IA II (I), dated 24.12.2018 - copy attached.

Sir,

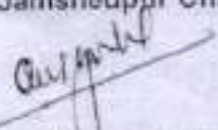
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This is for your information and needful.

Thanking you.

Yours Sincerely

For Jamsheedpur Chlorochem Pvt.Ltd.

  
(Manoj Kumar Gutgutia)

Director

Encl : As above.

JAMSHEDPUR CHLOROCEM PVT. LTD.

  
Director

JAMSHEDPUR CHLOROCEM PVT. LTD.

  
DIRECTOR





# JAMSHEDPUR CHLOROCEM PVT. LTD.

MANUFACTURER OF HYDRATED LIME

Office & Works : Plot No. NS-88, Vith Phase, Adityapur Ind. Area, Gamharia - 832108, Dist. - Seraikela-Kharsawan, Jharkhand  
Cell : 9431182371, 9031992253 E-mail : jschlorochem@gmail.com  
CIN : U24220JH1999PTC008858

07.01.2019

*T/c*

To,  
The Municipal Council,  
Adityapur

Sub: Submission of copy of **Environmental Clearance** for establishment of 3600 TPA LC Ferro Chrome/or LC Ferro Manganese, 1200 TPA Ferro Molybdenum & 1200 TPA Ferro Vanadium Plant of M/s Jamshedpur Chlorochem Pvt.Ltd. at Plot No. NS - 88, Vith Phase, Adityapur Industrial Area, Gamharia - 832 108, District Seraikela-Kharsawan.

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This is for your information and needful.

Thanking you.

Yours Sincerely

For Jamshedpur Chlorochem Pvt.Ltd.

*Manoj Kumar Gutgutia*

( Manoj Kumar Gutgutia )

Director

Encl : As above.

JAMSHEDPUR CHLOROCEM PVT. LTD.

*Manoj Kumar Gutgutia*  
Director

JAMSHEDPUR CHLOROCEM PVT. LTD.

*Manoj Kumar Gutgutia*  
DIRECTOR

*Sincerely  
07/01/19*



20.02.2019

thru speed post

To,  
The Deputy Commissioner,  
District - Seraikela- Kharsawan,  
D.C. Office,  
Gaurangdih,  
Seraikela -833 220

Sub: Submission of copy of **Environmental Clearance** for establishment of 3600 TPA LC Ferro Chrome/or LC Ferro Manganese, 1200 TPA Ferro Molybdenum & 1200 TPA Ferro Vanadium Plant of M/s Jamshedpur Chlorochem Pvt.Ltd. at Plot No. NS - 88,Vlth Phase,Adityapur Industrial Area,Gamharia - 832 108, District Seraikela-Kharsawan

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Sir,

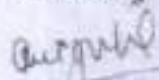
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This is for your information and needful

Thanking you.

Yours Sincerely

For Jamshedpur Chlorochem Pvt.Ltd.



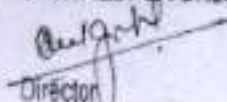
( Manoj Kumar Gutgutia )

Director

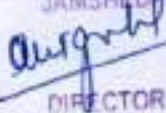
Encl : As above.



JAMSHEDPUR CHLOROCEM PVT. LTD.

  
Director

JAMSHEDPUR CHLOROCEM PVT. LTD.

  
DIRECTOR



