



## MONGIA STEEL LIMITED

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Website : www.mongiasteel.com

CIN : U27107WB1995PTC235644

MSL/EC/2022-23/84

Date: 17/01/2023

To  
The Additional Principal Chief Conservator of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Regional Office (ECZ),  
Bungalow No. A-2, Shyamali Colony,  
Ranchi – 834002

**Sub: Submission of six monthly compliance of Environmental Clearance issued vide letter no: EC/SEIAA/2020-21/2164/2020/68 Ranchi, date: 15/07/2021 by State Level Environment Impact Assessment Authority, Jharkhand**

Sir,

Following documents are being furnished for your kind and needful perusal.

- Copy of Environmental Clearance
- Compliance of Environmental Clearance.
- Copy of Test Report of stacks emission, ambient air, ambient noise & Fugitive air.
- Copy of ground water analysis report.

Hence, you are requested to kindly find the above and do the needful.

Thanking you

Faithfully yours

For Mongia Steel Limited

Director

Copy To

- 1) Sri R.C.Saxena (Scientist 'E' & Incharge)  
Central Pollution Control Board  
Southern Conclave, Block, 502  
5<sup>th</sup> & 6<sup>th</sup> Floors, 1582, Rajdanga Main Road, Kolkata: 700 107 (W.B.)
- 2) The Regional Officer,  
Jharkhand State Pollution Control Board,  
Matwari Road, Hazaribagh (Jharkhand)



**State Level Environment Impact Assessment Authority, Jharkhand.**

Nursery Complex, Near Dhurwa Bus Stand, Dhurwa, Ranchi, Jharkhand-834 004.

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website: [www.jseiaa.org](http://www.jseiaa.org)

Letter No.- EC/SEIAA/2020-21/2164/2020/68

Ranchi, Date: 15/07/2021

To: **Sri Gunwant Singh Saluja (CMD)**  
**M/s Mongia Steel Limited**  
**P.O. – Burhiadih, Tundi Road,**  
**District – Giridih,**  
**Jharkhand – 815302.**

Sub.: Environmental Clearance for the project “Expansion & Modernization Project of M/s Mongia Steel Ltd., Mouza : Dandidih (Burhiadih), Tehsil & Dist. : Giridih, Jharkhand (Proposal No. SIA/JH/IND/36503/2019) – regarding.

Ref: Your letter no. 35, dated : 16.06.2021.

Sir,

It is in reference to the project “Expansion & Modernization Project of M/s Mongia Steel Ltd., Mouza : Dandidih (Burhiadih), Tehsil & Dist. : Giridih, Jharkhand” submitted by you for seeking prior Environmental Clearances (EC).

This is a expansion project which has been taken for appraisal on 24.06.2021.

The proposed expansion project of M/s Mongia Steel Limited is located at Mouza Dandidih (Burhiadih), District Giridih, Jharkhand initially applied in the SEIAA/SEAC, Jharkhand on 03.09.2019 for obtaining Terms of Reference (ToR) as per EIA Notification, 2006. The State Expert Appraisal Committee, Jharkhand deliberated the project during its 78<sup>th</sup> meeting held on 19th September, 2019 and SEIAA, Jharkhand has approved the ToRs in its meeting held on 25th September 2019. TOR for the project was issued by SEIAA, Jharkhand vide letter no. 545, date 09.10.2019. The final EIA / EMP submitted by PP to SEIAA on 17.06.2021 and which was forwarded to SEAC on 18.06.2021.

The company was set up in the year 1996 initially, after obtaining NOC from Bihar State Pollution Control Board on 18.07.1996 for setting up of steel plant for production of 50 TPD Billets and 10 TPD TMT Bars. In the year 2011, the company changed its name from Mongia Hi-Tech Pvt. Ltd to Mongia Steel Limited after necessary amendment in the Registrar of Companies (ROC). Further expansion was carried out after obtaining Environment Clearance from SEIAA, Jharkhand vide letter No. EC/SEIAA/2014-2015/569/2014/310 dated 13.12.2018 and subsequent CTE granted by JSPCB vide No JSPCB/HO/RNC/CTE-3579450/2019/294 dated 01.05.2019 for production of 240 TPD TMT Bars and 60 TPD Pipes & shutter strips.

The proposed expansion project of Mongia Steel Limited is envisaged for capacity expansion for production of TMT Bars from 72,000 TPA to 277,200 TPA and Pipes, shutter strips, angles, channels from 18000 TPA to 99000 TPA by installing additional facilities of 2x15 T and 3x20 T Induction furnace with CCM and 600 TPD Rolling mill. The existing unit of Strip mill will be

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enhanced in capacity from 60 to 300 TPD. The existing Induction furnace of 2x15 Tons and TMT Bar Mill of 240 TPD will continue to operate along with proposed units. The total working days will be increased from 300 to 330 days. Additionally, 66000 TPA capacity Slag Crusher unit shall also be installed. The proposed capacity for different products for site are as below.

**Raw Material Required:**

Plant	Existing			Proposed (Total after the proposed expansion)		
	Unit	Days of Operation	Capacity TPA	Unit	Days of Operation	Capacity TPA
<b>Steel Melting Shop</b> Induction Furnace with Continuous Casting Machine (CCM)	2x15 Ton	300	90000	2x15 Ton (Existing) 2x15 Ton 3x20 Ton	330	396000
<b>Producer Gas plant</b>	1	300	9,000 Nm <sup>3</sup> /hr-	No Producer Gas Plant (Existing unit to be dismantled and removed)		
<b>Reheating Furnace</b>	1x30 TPH	300	90000	No Re-heating Furnace unit (Existing unit to be dismantled and removed)		
<b>Rolling Mill</b> TMT Bar Mill - 1	240 TPD	300	72000	240 TPD	330	79,200
TMT Bar Mill - 2	--	--	--	600 TPD	330	198,000
<b>Strips Mill</b> (Pipes, Shutter strips, angles, Channels etc)	60 TPD	300	18000	300 TPD	330	99,000
<b>Slag Crusher Unit</b>	--	--	--	2x100 TPD	330	66000 (Metal Recovery - 3300 TPA)

No additional land shall be acquired for the project and the entire project shall be installed within existing plant area of 12.67 ha. No forestland is involved. It has been reported that no water body/ water body exist at the project site and modification/diversion in the existing natural drainage pattern at any stage has not been proposed.

The topography of the area is Gently undulating and reported to lies between 24.15722 to 23.16083 Latitude and 86.32430 to 86.32861 E Longitude in Survey of India Topo sheet 72 L/4 & 72 L/8 at an elevation of 312 m AMSL. The ground water table is reported in ranges between 4.82 to 6.21 mbgl during the post-monsoon season and 8.20 to 9.80 mbgl during the pre-monsoon season.

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The process of project showing the basic raw material used and the various processes involved to produce the final output, waste generated in process.

**Basic Raw Material Used**

Raw Materials	Total Raw materials required After Expansion	Storage	Source	Transportation by Road (km)
<b>Induction Furnace (Total after expansion: 396,000 TPA)</b>				
Sponge Iron	316,800 TPA	Shed	Local Plants in Giridih through Road	5 km
Pig Iron	99,000 TPA	Shed		5 km
Scrap	47,520 TPA	Shed	In-house & nearby plants through Road	250 km
Ferro Alloys (SiMn/FeSi)	792 TPA	Drums	Local Plants in Giridih through Road	110 km
<b>Total</b>	<b>464,112</b>	-	-	-
<b>Billet Caster (Total after expansion: 388,235 TPA)</b>				
Liquid Steel	396,000	-	In house	-
<b>Rolling Mill – TMT Bars (Total after expansion: 277,200 TPA )</b>				
Hot Billets	282,720	-	In-house - Hot Billets direct charging	-
<b>Strips Mill- Shutter strips, channels etc. (Total after expansion: 99,000 TPA )</b>				
Hot Billets	100,800	-	In-house - Hot Billets direct charging	-

**Process involved**

TMT bars and steel Strips production through Induction Furnace, Billet Caster, Rolling Mill and Strip Mill. Slag Crushing plant of 2x100 TPD is also proposed to be installed for metal recovery of the slag.

**Waste Generated in the proposed project**

Units	Solid Wastes	Total Qty In TPA	Disposal practice
Induction Furnace	Slag	28380	After Metal extraction of slag it will be supplied to our sister

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			concern M/s Santpuria Alloys Pvt. Ltd. unit II for fly ash bricks manufacturing.
TMT Bar Mill& Strips Mill	Mill Scale	5260	Recycled in-house along with scrap in the induction furnace.
Bag Filter Dust from process	Dust from process	2850	Partly recycled (metal content). Rest supplied to our sister concern M/s Santpuria Alloys Pvt Ltd. unit II for fly ash bricks manufacturing.

The targeted saleable capacities of TMT Bars and Steel Strips (Shutter Strip, Channels, Pipes, angles) are 277200 and 99000 TPA respectively. The raw material transportation will be done through road only.

The water requirement of the project is estimated as 120 m<sup>3</sup> /day requirement will be obtained through Ground water. The permission for drawl of water will be obtained from CGWA.

The power requirement of the project is estimated 40 MVA out of which shall be supplied through Damodar Valley Corporation. Existing power demand is 18 MVA.

Baseline Environmental Studies were conducted during Winter Season i.e. from 01.12.2019 to 29.02.2020. Ambient air quality monitoring has been carried out at 8 locations during study period indicates: PM10 (40.8 to 82.1 µg/m<sup>3</sup>), PM2.5 (18.0 to 49.8 µg/m<sup>3</sup>), SO<sub>2</sub> (8.1 to 26.9 µg/m<sup>3</sup>) and NOx (11.6 to 39.4 µg/m<sup>3</sup>). The results of the modeling study indicate that the maximum increase of GLC for the proposed project is 1.46 µg/m<sup>3</sup> with respect to the PM<sub>10</sub>, 0.61 µg/m<sup>3</sup> with respect to PM2.5, 0.58 µg/m<sup>3</sup> with respect to SO<sub>2</sub> and 0.44 µg/m<sup>3</sup> with respect to the NOx.

Ground water quality has been monitored in 8 locations in the study area and analyzed. pH: 7.15 to 8.01, Total Hardness: 185 to 235.1 mg/l, Chlorides: 50 to 61 mg/l, Fluoride: 0.22 to 0.38 mg/l. Heavy metals are within the limits. Surface water samples were analyzed from 8 locations. pH: 7.36 to 7.72, DO: 4.80 to 5.96 mg/l, BOD: 6.0 to 13.0 mg/l and COD from 18 to 41 mg/l.

Noise levels are in the range of 47.62 to 71.60 dB (A) for day time and 38.10 to 67.43 dB (A) for night time. No R&R is involved as no land has been acquired for the project.

It has been reported that the latest Consent to Operate from the Jharkhand State Pollution Control Board was obtained vide Lr. No. JSPCB/HO/RNC/CTO-8002611/2020/1612 dated 30.09.2020 and consent is valid up to 30.06.2021.

Public hearing is a very significant part of the process of public participation envisaged under guidelines issued by MoEF&CC, Government of India. It facilitates involvement of all the stake holders of the project which is essential for ensuring smooth running of project and benefitting all section of society in the process of economic development of the region. The public hearing for Mongia Steel Limited is exempted as per ToR issued by SEIAA, Jharkhand, Since the Public hearing was conducted on 26.03.2017 which is below 3 years as per MoEFCC OM dated 29.08.2017. An amount of Rs 68.5 Lakhs (1% of Project cost) has been earmarked for CER based on public hearing / Socio-economic issues.

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The capital cost of the proposed project is Rs 68.48 Crores and the capital cost for environmental management is proposed as Rs 208 Lakhs. The annual recurring cost towards the environmental management is proposed as Rs 30.50 Lakhs/year. An amount of Rs 68.5 Lakhs (1% of Project cost) has been earmarked for CER based on previous public hearing issues and need based assessment. The employment generation from the proposed project of expansion is 172.

Green Belt will be developed over 33% of the plant area. Indigenous trees will be planted in 4.18 Ha. out of the total area of 12.67 Ha. Existing green belt area is 0.433 Ha and about 985 No. of trees are planted in the area. An additional land of 3.64 Ha. has also been developed as greenbelt with around 4000 trees planted. Tree density of 1600 trees per hectare with local board leaf specification will be planted in future after expansion. A 10 m wide greenbelt, consisting of at least 3 tiers around plant boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 1600 trees per hectare.

The proponent has mentioned that there is no court case or violation under EIA Notification to the project or related activity.

DFO, Wildlife Hazaribagh vide letter no. 1396, dated 20.07.19 certified that the Parasnath Wildlife Sanctuary is 24048 m from project site and not within 10 km from National Park & Wildlife Sanctuary and proposed project is not situated in any ESZ.

DFO, Giridih East Division vide letter no. 1434, dated 18.06.18 certified that the distance of notified forest is more than 2699.34 m from proposed project site.

The CO, Giridih vide memo no.2622, dated - 10.09.18 has mentioned that the proposed site is not recorded as Jangal Jhari.

Specific observations of the committee from the appraisal are as under:

- i. Compliance report of issues raised from inspection by the RO, MoEF&CC, Ranchi to be submitted..
- ii. Location of Collection pond of the run-off water marked on lay out plan to be provided.
- iii. All the barren land available within the premises to be utilized for maximising green cover. Undertaking for same to be provided.
- iv. Photographs showing environmental monitoring machines for baseline study to be provided.
- v. Photographs showing positioning of suction hood fitted to Dust Extraction (DE) system with respect to furnace to be provided.
- vi. Photographs of Oil Skimmer along with Water quality report for inlet and outlet of effluent treatment plant to be provided.
- vii. Mock Drill report required under on-site emergency plan to be submitted.
- viii. Issues raised during Public hearing and commitment made by the management to be provided in tabular form.
- ix. Tree inventory of existing plant to be provided.
- x. Details of proposed CER activities to be provided.

**The Project Authorities have submitted above required documents.**

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The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its meeting held on 23<sup>rd</sup>, 24<sup>th</sup>, 25<sup>th</sup>, 26<sup>th</sup> & 28<sup>th</sup> June, 2021.

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its meeting held on 05<sup>th</sup>, 06<sup>th</sup> & 07<sup>th</sup> July, 2021 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

Following the decision of SEIAA, as mentioned above, Environmental Clearance is hereby issued to the **"Expansion & Modernization Project of M/s Mongia Steel Ltd., Mouza : Dandidih (Burhiadih), Tehsil & Dist. : Giridih, Jharkhand"** alongwith the following conditions as recommended by SEAC with special conditions as follows:

- i. Mock Drill report of three successive drills required under on-site emergency plan to be submitted along with the EC compliance report.
- ii. Carbon foot print study to be carried out within 03 years and the study report to be submitted with the EC compliance.

#### I. Specific Conditions:

- i. This Environmental Clearance is valid subject to the following condition below –  
That this project has-
  - a. Obtained all legal rights to operate at concerned place.
  - b. Complied with all existing concerned laws of the land and
  - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.
- ii. No mining/activity shall be undertaken in the forest land or deemed forest without obtaining requisite prior forestry clearance.
- iii. This Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT, MoEF & CC and any other Court of Law, if any, as may be applicable to this project.
- iv. Environmental clearance is subject to obtaining prior clearance from forestry and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna occurs / is found in the Project area or if the area involves forest land or Wildlife habitat i.e. core zone of elephant/tiger reserve etc. and or located with in 10 km. of protected area).
- v. The project proponent may apply simultaneously for forest and NBWL clearance, in order to complete the formalities without undue delay, which till process on their respective merits, no rights will vest in or accrue to them unless all clearance are obtained.

#### II. Statutory compliance:

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

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- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-I species in the study area)
- iv. 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.
- v. 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.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MoEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi/SEIAA/CPCB.
- viii. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- ix. The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.

### III. Air quality monitoring and preservation:

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack 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; S.O. 3305 (E) dated 7th December 2015(Thermal Power Plants) 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 recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main

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pollutants released (e.g. PM10 and PM25 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) 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. (case to case basis small plants: Manual; Large plants: Continuous)

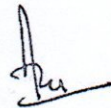
- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.
- vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. 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.
- ix. The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- x. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.
- xi. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- xii. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.

#### IV. Water quality monitoring and preservation:

- i. The project proponent shall install 24x7 continuous effluent monitoring system 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; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) 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. (case to case basis small plants: Manual; Large plants: Continuous)
- ii. 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 (Protection) Act, 1986 and NABL accredited laboratories.

- iii. 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.
- iv. Adhere to 'Zero Liquid Discharge'.
- v. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- vi. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31<sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time.
- vii. 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
- viii. The project proponent shall practice rainwater harvesting to maximum possible extent.
- ix. 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.

**V. Noise monitoring and prevention:**

- i. 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.
- ii. 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.

**VI. Energy Conservation measures:**

- i. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
- ii. Practice hot charging of slabs and billets/blooms as far as possible.
- iii. Ensure installation of regenerative type burners on all reheating furnaces.
- iv. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
- v. Provide the project proponent for LED lights in their offices and residential areas.

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*[Signature]*

**VII. Waste management:**

- i. Used refractories shall be recycled as far as possible.
- ii. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces
- iii. 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.
- iv. The waste oil, grease and other hazardous waste shall be disposed of as per the
- v. Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
- vi. Kitchen waste shall be composted or converted to biogas for further use. *(to be decided on case to case basis depending on type and size of plant).*

**VIII. Green Belt:**

- i. 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.
- ii. 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.

**IX. Public hearing and Human health issues:**

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. 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.
- iii. 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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

**X. Corporate Environment Responsibility:**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard 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.
- iii. 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.
  - iv. 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.
  - v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
  - vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.
  - vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

#### XI. Miscellaneous:

- i. 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 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.
- ii. 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.
- iii. 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.
- iv. The project proponent shall monitor the criteria pollutants level namely; PMIO, SO<sub>2</sub>, NO<sub>x</sub> (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.
- v. 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.
- vi. 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.

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- vii. 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 production operation by the project.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. 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.
- x. 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).
- xi. 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.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. 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.
- xv. 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 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.
- xvi. Any appeal against this Environmental Clearance 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.

## **XII. Other Conditions :**

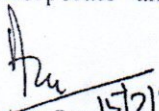
- i. The Authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of Authority or for that matter for any other Administrative reason.
- ii. In view of MoEF & CC O.M. No.- 22-27/2015-IA-III, dated- 12.04.2016 The Environmental Clearance accorded shall be valid for a period of Seven (07) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.

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- iii. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.

  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.

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Compliance of Environmental Clearance

Issued vide letter no: EC/SEIAA/2020-21/2164/2020/68 Ranchi, dated: 15/07/2021  
State Level Environment Impact Assessment Authority,

Jharkhand

MONGIA STEEL LIMITED  
(Prepared on 28/12/2022)

# Compliance of Environmental Clearance

Issued vide letter no: EC/SEIAA/2020-21/2164/2020/68 Ranchi, dated: 15/07/2021 by

State Level Environment Impact Assessment Authority,

Jharkhand

MONGIA STEEL LIMITED

At: Mouja Dandidih (Burhiadih), P.O: Burhiadih, Tundi Road,  
Dist.: Giridih: 815302 (Jharkhand)

MONGIA STEEL LTD.

  
DIRECTOR

Sl No:	Conditions	Compliances-
	<b>Special Conditions</b>	
	i Mock Drill report of three successive drills required under on-site emergency plan to be submitted along with the EC compliance	Agreed.
	ii Carbon foot print study to be carried out within 03 years and the study report to be submitted with the EC compliance.	Agreed.
<b>(1)</b>	<b>Specific Conditions</b>	
	i This Environmental Clearance is valid subject to the following conditions below That this project has <ul style="list-style-type: none"> <li>a. Obtained all legal rights to operate at concerned place.</li> <li>b. Complied with all existing concerned laws of the land and</li> <li>c. Complied with the decisions of SEIAA on the issue of Environmental clearance till date</li> </ul>	Agreed
	ii No mining/activity shall be undertaken in the forest land or deemed forest without obtaining requisite prior forestry clearance.	Agreed



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(Prepared on 28/12/2022)

<p>iii -This Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India. Hon'ble High Court, Hon'ble NGT, MoEF &amp; CC and other Court law, if any as may be applicable to this project.</p>	<p>Agreed .</p>
<p>iv Environmental Clearance is subject to obtaining prior clearance from forestry and wildlife angle including clearance from standing committee of NBWL as may be applicable to this project (in case any fauna occurs/ is found in the Project area or if the area involves forest land or Wildlife habitat i.e. core zone of elephant/tiger reserve etc and or located within 10 km of protected area.)</p> <p>v The project proponent may apply simultaneously for forest and NBWL clearance in order to complete formalities without undue delay, which till process on their respective merits no rights will vest in or accrue to them unless all clearance are obtained</p>	<p>Unit has obtained the clearance from Divisional Forest Officer Giridih (East) Division and DFO, Wildlife Division Hazaribagh</p>
<p><b>II</b> <b>Statutory Compliance:</b></p> <p>i. The Project proponent shall obtain forest clearance under the provisions of forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.</p> <p>ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.</p>	<p>This unit has own land for which clearance, from Divisional Forest Officer, Giridih (East), vide ref. No: 1679 dtd. 26/07/2017 has been obtained clearly mentioning site outside forest land</p> <p>As per the certificate issued by the Divisional Forest Officer Giridih (East) Division and Divisional Forest Officer, Wildlife Division Hazaribagh, vide ref. No:1679 dtd.26/07/2017 and ref. No:1396 dtd.20/07/2019 respectively there is no Sanctuaries, National Parks, Tiger Reserve or Biosphere Reserve or Elephant Corridor or other protected areas within the 10 km radius of the</p>

	<p>project site. Thus not applicable.</p>
<p>iii The project proponent shall prepare a site-specific Conservation plan &amp; Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the state Forest Department. The implementation report shall be furnished along with the Six-monthly compliance report. (In case of the presence of schedule-I species in the study area)</p>	<p>Species as per the Schedule-I, in the study area, have not been found hence project does not require preparing a site specific conservation plan &amp; wildlife Management plan.                  As per the clearance issued by forest department there is no Sanctuaries, National Parks, Biodiversity protected Area situated within a radius of 10 km of project.</p>
<p>iv The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention &amp; Control of Pollution) Act, 1981 and the water (Prevention &amp; Control of Pollution) Act, 1974 from the concerned State pollution Board / Committee.</p>	<p>Unit has obtained consent to establish vide ref. No: JSPCB/HO/RNC/CTE-10779772/2021/379 dated 21/12/2021 and consent to operate vide ref. No: JSPCB/HO/RNC/CTO-12219691/2022/489 Dated :20/04/2022 valid upto 31/12/2022, from JSPCB Ranchi. Further application for renewal of CTO has been submitted. Vide ref. No:14379451 dtd.01/10/2022.</p>
<p>v 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.</p>	<p>Agreed. Unit has obtained permission for existing unit to abstract ground water from the Central Ground Water Authority (CGWA) vide Reference no: FILE NO: CGWBMER/CGWA/NOCC/2019-299 dtd.11/05/2020</p>
<p>vi The project proponent shall obtain authorization under the Hazardous and other Waste management Rules, 2016 as amended From time to time.</p>	<p>Unit has obtained authorisation under Hazardous and other waste management rules, 2016. Vide reference no.:JSPCB/HO/RNC/HWM-1664235 DTD 05/02/2020 valid upto 30/06/2022 and applied for further renewal vide application no:13240284 dtd:02/06/2022 before Jharkhand State Pollution Control Board.</p>
<p>vii It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior</p>	<p>Agreed and six monthly compliance is maintained in regular basis.</p>

<p>environmental clearance terms and conditions in hard copies to the regulatory authority concerned Regional Office of MoEF &amp; CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B), Ranchi/SEIAA/CPCB.</p>	
<p>viii Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.</p>	<p>Agreed</p>
<p>ix The SEIAA, Jharkhand or any other competent authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.</p>	<p>Agreed</p>
<p>iii. Air quality monitoring and preservation :                  i The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack 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; S.O. 3305 (E) dated 7<sup>th</sup> December 2015 (Thermal Power Plants) 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 recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.                  ii. 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.</p>	<p>This is a secondary Metallurgical industry where No Ore is required. This is also listed under category 'B' in EIA Notification 2006.                  This unit does not come under the 17categories/ Integrated Iron &amp; steel plant of highly polluting industries. Hence, this unit does not require to install 24X7 continuous emission monitoring system at process stack to monitor stack emission.                  S.O.3305 (E) dated 7<sup>th</sup> December, 2015 indicates compliance for Thermal Power Plants. As our unit is not a thermal power plant, compliance of this condition is not required.                  Agreed. Monitoring test of fugitive emission has been carried out by NABL accredited laboratories. Report attached.</p>
<p>iii. The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion</p>	<p>AAQMS for parameter PM10, with the connectivity of JSPCB and CPCB server already been installed.</p>

Compliance of Environmental Clearance

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<p>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> emissions) 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. (case to case basis small plants: Manual; Large plants: Continuous )</p>	
<p>iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of the air quality/fugitive emission to Regional Office of MoEF &amp; CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.</p>	<p>In this unit operations are not continuous. <b>Manual stack Monitoring &amp; AAQR</b> is carried out Six monthly and Fugitive emission test carried out quarterly. Reports of above test are attached herewith for your reference.</p>
<p>v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.</p>	<p>Appropriate air pollution control devices have already been provided at all dust prone and vulnerable sources in the factory premises. Adequate numbers of Bag filters with the stack have already been installed. Addition of above, adequate numbers of fix water sprinklers has already been installed and functioning regularly.</p>
<p>vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.</p>	<p>All the appropriate facility for leakage detection and mechanised cleaning of bags has been provided and further it will be advanced.</p>
<p>vii. Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.</p>	<p>Now, cleaning of plant roads and other area of plant is maintained manually. In future, mobile or vacuum cleaner system shall be implemented.</p>
<p>viii. 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.</p>	<p>This unit has Rolling Mill &amp; Induction Furnace where Iron ore fines are not used. Here, No Re heating furnace will be installed to hit the billet. Hot Billet from CCM will directly be rolled in rolling mill. Here Coal, Coke &amp; lime shall not be used. Other fines collected from the Pollution control devices will be used in</p>

	ix. The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	fly ash bricks unit i.e. in our sister concern unit M/s Sanpuria Alloys Pvt Limited, Giridih.
	x. The project proponent shall provide covered sheds for raw materials like scarp and sponge iron, lump ore, coke, coal etc.	Agreed. Transportation of coal & other raw material is done under covered system. These are fully covered with tarpaulin during transportation.
	xi. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	All the Raw materials are stacked under the permanent shed which is fully fenced to prevent from wind.
	xii. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.	Agreed. Fume Extraction system has already been installed at all melting furnaces and it will also be installed in proposed melting furnace.
IV.	Water quality monitoring and preservation:	Agreed.
	i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 277(E) dated 31 <sup>st</sup> March 2012 (applicable to IF/EAF) as amended from time to time: S.O.3305 (E) dated 7 <sup>th</sup> December 2015 (Thermal Power Plants) 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. (case to case basis small plants: Manual; Large plants: Continuous)	In this unit operations are not continuous. <b>Manual effluent Monitoring</b> is carried out annually and its report is submitted.
	ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of	Agreed. Ground water test is taken twice a year.

	piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.	
iii.	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.	In this unit operations are not continuous. <b>Manual effluent Monitoring &amp; Ground water monitoring</b> is carried out and its report is submitted to the JSPCB six monthly basis. Further, Above monitoring reports are attached herewith for your reference.
iv.	Adhere to 'Zero Liquid Discharge'.	Agreed. No effluent discharge outside premises
v.	Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	N.A.
vi.	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R.277 (E) 31 <sup>st</sup> March,2012(applicable to IF/EAF) as amended from time to time.	Very small quantity of domestic and sanitary waste water. Being disposed to septic tank-soak pit combination Here, Water is used for cooling purpose only and there in no effluent generation only make water is added in water circulation system. Test report for water of circulation system is attached herewith.
vii.	Garland drains and collected 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.	Agreed. Garland and collected pits have already been constructed. Further, it will be advanced.
viii.	The project proponent shall practice rainwater harvesting to maximum possible extent.	Agreed. Roof top rain water harvesting cum artificial recharge of ground water has already been developed.
ix.	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practice cascade use and by recycling treated water.	Agreed. Here, water is used for cooling purpose only and make-up water is added in water circulation system. Further, advance and possible steps to minimise the water consumption must be taken.

V.	Noise monitoring and prevention:	Agreed
	<p>i. 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.</p> <p>ii. 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.</p>	<p>Agreed.</p> <p>Ambient noise level report confirm to standards prescribed under E (P) rules, 1986 viz 75dB (A) during day time and 70 dB during night time will be maintained. Test report for ambient noise level recently monitored in this unit is attached here with for your ready perusal.</p>
VI.	Energy Conservation measures :	Agreed
	<p>i. The Project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnace</p> <p>ii. Practice hot charging of slabs and billets/blooms as far as possible.</p> <p>iii. Ensure installation of regenerative type burners on all reheating furnaces.</p> <p>iv. 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.</p> <p>v. Provide the project proponent for LED lights in their offices and residential areas.</p>	<p>Here hot billet will directly be rolled in rolling mill. No re-heating furnace is required.</p> <p>In our unit hot billet is directly rolled. No re- heating furnace is required.</p> <p>No, re- heating furnace will be installed as hot billet is directly rolled in rolling mill/ strip mill.</p> <p>Agreed. Solar power generation on roof top has been installed.</p> <p>Agreed. LED lights, in offices and residential area inside the plant have already been provided.</p>
VII.	Waste management	Agreed.
	<p>i. Used refractories shall be recycled as far as possible.</p> <p>ii. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried and briquetted and</p>	<p>Agreed.</p> <p>Agreed</p>

	reused melting furnaces.	
	iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and bricks manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	N.A. There no fly ash is generated in this unit.
	iv. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste ( Management & Trans boundary Movement ) rules, 2016	Agreed.
	v. Kitchen waste shall be composed or converted to biogas for further use. (to be decided on caste to case basis depending on type and size of plant)	NA
VIII.	Green Belt :	
	i. 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.	Agreed. Green belt development works to occupy almost 33% of the plant area is going on. It will be achieved within 3 years. Further, we assure to maintain and efforts for increasing the plantation will be going on. Addition of premises of Mongia Steel one premises of approx 9 acres has been developed as green belt.
	ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.	This being a secondary metallurgical industry- where it is felt that Green House gas Emission Inventory should not be applicable for unit.
IX.	Public hearing and Human health issues :	
	i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Agreed. Emergency plan as per factories act 1948, Jharkhand factories Rules, 2001, Control of Industrial Major Accidents Hazardous Rules 1990, Hazardous Wastes (Management and Handling) Rules 1980 & Environment (Protection) Act 1986,



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	<p>duly certified the factory department has been prepared. - And implemented.</p>
<p>ii. 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.</p>	<p>Heat stress analysis has been already been carried out. All the workmen have already been provided personal protection equipment (PPE) viz safety boots, safety goggles, safety helmets and apron etc as per the Factory Act.</p>
<p>iii. 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.</p>	<p>Now plant has already completed and in operation.</p>
<p>X. Corporate Environment Responsibility :</p> <p>i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.</p>	<p>Agreed. Most of works, contained in CER as per the Ministry's OM vide F.No: 22-65/2017-IA.III dated 1<sup>st</sup> May, 2018, is being carried out viz health check -up, education etc. Details of activity as per corporate environmental responsibility are furnished hereunder:</p> <ul style="list-style-type: none"> <li>• Maintenance of village roads, in the locality</li> <li>• Construction of tube well in the neighbouring villages.</li> <li>• Supply of pipe line water in the neighbouring villages</li> <li>• Renovation of school Building and Anganbadi Kendra in the locality.</li> <li>• Vocational Training Centre, for local youths.</li> <li>• Construction &amp; maintenance of community centre.</li> <li>• Organizing Health Camp (Blood donation, Eye Check up, Child Health etc) &amp; Ambulance service for the surrounding population.</li> <li>• Distribution of blanket, shoes umbrellas etc to needy and poor</li> </ul>

	<ul style="list-style-type: none"> <li>• people.</li> <li>• Scholarship for higher education.</li> </ul>
<p>ii. The company shall have a well laid down environment policy duly approved by the Board of Directors. The environment policy should prescribe for standard 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 &amp; CC as a part of six-monthly report.</p>	<p style="text-align: center;">Copy of Board Resolution for environment policy has been prepared.</p>
<p>iii. A separate Environment 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.</p>	<p style="text-align: center;">Agreed.</p>
<p>iv. Action plan for implementation EMP and environment 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 environment protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of</p>	<p>Responsibility matrix for the implementation of EMP and environmental conditions is attached herewith. Details of year wise progress/expenditure on environmental protection measure are attached herewith..</p>

	action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.	
	v. Self-environment audit shall be conducted annually. Every three years third party environment audit shall be carried out.	Agreed & Carried out.
	vi. All the recommendation made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Mineral Beneficiation plants shall be implemented.	NA
	vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act,	Occupational health surveillance of the workers is carried out on a regular basis. Records are maintained as per the factory act.
XI.	Miscellaneous :	
	i. 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 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.	Agreed. Website has already been prepared i.e. <a href="http://www.mongiasteel.com">www.mongiasteel.com</a> . EC with its conditions has already been uploaded in unit's website. Advertisement regarding Environment Clearance has been published in two local news paper i.e 1) Dainik Bhashkar, Dhanbad publication on 20/08/2021 and 2) Prabhat Khabar, Dhanbad Publication on 18/08/2021
	ii. The copies of the environmental clearance shall be submitted by the project proponent 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.	Complied.
	iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their	Status of compliance condition EC has been uploaded in company's website. Company's website: <a href="http://www.mongiasteel.com">www.mongiasteel.com</a> Monitored data has also been uploaded.

Compliance of Environmental Clearance

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	website and update the same on half-yearly basis.	
iv.	The project proponent shall monitor the criteria pollutants level namely: PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectorial 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.	Monitored data has been displayed at Main gate of the unit for disclosure to the public and uploaded in the website of the company.
v.	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.	Agreed. Six monthly reports on the status of the compliance is submitted on the website of ministry of environment, forest and climate change at environment clearance portal.
vi.	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.	Agreed. Environment statement for the existing unit is being submitted in the JSPCB within the stipulated time. Also uploaded in website of company.
vii.	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 production operation by the project.	Agreed.
viii.	The project authorities must strictly adhere to the stipulations made by the state pollution Control Board and the State Government.	Agreed.
ix.	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that	Agreed.

	during their presentation to the Expert Appraisal Committee.	
	x. 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).	Agreed.
	xi. 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.	Agreed.
	xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed.
	xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed.
	xiv. 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.
	xv. 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 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by	Agreed.

	the Hon'ble Supreme Court of India / high Courts and any other Court of Law relating to the subject matter.	
	xvi. 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.	Agreed.
XII	Other conditions:	
	i. The authority reserves the right to add any new condition or modify the above conditions or to revoke the clearance if conditions stipulated above are not implemented to the satisfaction of authority or for that matter for any other administrative reason.	Agreed.
	ii. In view of MoEF & CC O.M No.- 22-27/2015-IA-III, dated- 12.04.2016 The Environmental Clearance Accorded shall be valid for a period of Seven (07) years. The PP shall not increase production rate and make modifications in process during the validity of Environmental Clearance.	Agreed.
	iii. In case of any deviation or alteration in the project proposed from those submitted to SEIAA, Jharkhand for clearance, a fresh reference should be made to SEIAA to assess the adequacy of the conditions imposed and to incorporate any new conditions if required.	Agreed.

**For MONGIA STEEL LIMITED.**  
  
**DIRECTOR**  
 Director



# ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA  
HATIA, RANCHI-834003 (JHARKHAND)  
GST NO:- 20AAECE9713D1Z4

**ENGINEERING SERVICES PVT. LTD.**

Email: [info@elespl.co.in](mailto:info@elespl.co.in), [eles.ranchi@gmail.com](mailto:eles.ranchi@gmail.com)

Phone no : 0651-2290103

Website : [www.elespl.co.in](http://www.elespl.co.in)

CIN: U74999JH2018PTC011125

## TEST REPORT

Test Report No. : ELES/RNC/2023/056	Report Release Date : 09.01.2023
-------------------------------------	----------------------------------

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Mongia Steel Limited	Sample Ref. No.	: ELES/RNC/2022/GW/4409
Address	: PO-Burhiadih, Tundi Road, Giridih-815302	Sampling Date	: 23.12.2022
Plant Status	: Operational	Sample Received Date	: 28.12.2022
Period of Analysis	: 28.12.2022 to 09.01.2023	Type of Sample	: Ground Water
		Location/Source of Sample	: Borewell, Near Store Room of Rolling Mill
		Sampling Procedure	: ELES/DOC/SMPL/01
		Sample Collected By	: ELES Pvt.Ltd
		Sample Condition	: Sealed & Preserved

Parameter	Unit	Test Protocol	Result	Regulatory Limit as per IS:10500:2012	
				Acceptable Limit	Permissible Limit
pH (at 23.5°C)	--	APHA 23 <sup>rd</sup> Edition 2017,4500-H <sup>+</sup> -B	7.71	6.5-8.5	6.5-8.5
Turbidity	NTU	APHA 23 <sup>rd</sup> Edition 2017,2130 B	0.08	1.0	5.0
Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16):1984	696	500	2000
Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	IS 3025 (Part-23):1986	246	200	600
Chloride (as Cl)	mg/l	IS 3025 (Part-32): 1988: RA 2014	88.2	250	1000
Total Hardness (as CaCO <sub>3</sub> )	mg/l	APHA 23 <sup>rd</sup> Edition 2017, 2340 C	239	200	600
Sulphate (as SO <sub>4</sub> )	mg/l	APHA 23 <sup>rd</sup> Edition 2017, 4500-SO <sub>4</sub> -E	58.5	200	400
Calcium (as Ca)	mg/l	APHA 23 <sup>rd</sup> Edition, 3500 B	65.2	75	200
Iron (as Fe)	mg/l	APHA 23 <sup>rd</sup> Edition, 3111 B&C	0.098	1.0	1.0
Magnesium (as Mg)	mg/l	APHA 23 <sup>rd</sup> Edition, 3111 B	18.5	30	100

Authorized Signatory

Dr. Deependra Kumar Sinha

Ph. D. Environmental Engg.

ELES Pvt. Ltd. Technical Manager

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

Page 1 of 1

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# ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA  
HATIA, RANCHI-834003 (JHARKHAND)  
GST NO:- 20AAECE9713D1Z4

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## TEST REPORT

Test Report No. : ELES/RNC/2022/3201	Report Release Date : 31.12.2022
--------------------------------------	----------------------------------

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Mongia Steel Limited	Sample Ref. No.	: ELES/RNC/2022/FA/3612
Address	: PO-Burhiadih, Tundi Road, Giridih-815302	Location	: Near Gasifier (10m Distance)
Plant Status	: Operational	Sampling Date	: 16.10.2022
Period of Analysis	: 07.11.2022 to 31.12.2023	Sample Received Date	: 07.11.2022
		Type of Sample	: Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C)	: 26	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 61	4	Weather Condition	: Clear

Non-Accredited			
Parameter	Unit	Test Protocol	Result
Suspended Particulate Matter (SPM)	$\mu\text{g}/\text{m}^3$	IS 5182 (Part-4):1999; RA 2019	351
Sulphur Di-Oxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	IS 5182 (Part-2): 2001; RA2017	12.4
Nitrogen Di-Oxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	IS 5182 (Part-6): 2006; RA2017	26

Authorized Signatory

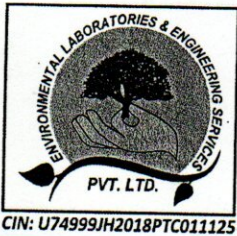
\*\*\*\*End of Report\*\*\*\*

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

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

Test Report No. : ELES/RNC/2023/055	Report Release Date : 09.01.2023
-------------------------------------	----------------------------------

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Mongia Steel Limited	Sample Ref. No.	: ELES/RNC/2022/FA/4408
Address	: PO-Burhiadih, Tundi Road, Giridih-815302	Location	: Near Gasifier (10m Distance)
Plant Status	: Operational	Sampling Date	: 20.12.2022
Period of Analysis	: 28.12.2022 to 09.01.2023	Sample Received Date	: 28.12.2022
		Type of Sample	: Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

## METEOROLOGICAL INFORMATION

1	Average Temperature (°C) : 21	2	Barometric Pressure (mmHg) : 745
3	Relative Humidity (%) : 52	4	Weather Condition : Clear

## Non-Accredited

Parameter	Unit	Test Protocol	Result
Suspended Particulate Matter (SPM)	$\mu\text{g}/\text{m}^3$	IS 5182 (Part-4):1999; RA 2019	373
Sulphur Di-Oxide (SO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	IS 5182 (Part-2): 2001; RA2017	14.7
Nitrogen Di-Oxide (NO <sub>2</sub> )	$\mu\text{g}/\text{m}^3$	IS 5182 (Part-6): 2006; RA2017	28

Authorized Signatory

\*\*\*\*End of Report\*\*\*\* Dr. Deependra Kumar Sinha  
Ph. D. Environmental Engg.  
ELES Pvt. Ltd. Technical Manager

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CIN: U74999JH2018PTC011125

# ENVIRONMENTAL LABORATORIES &



PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA  
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GST NO:- 20AAECE9713D1Z4 Q : 0651-2290103, 9931289451

## ENGINEERING SERVICES PVT. LTD.

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Environmental Pollution Monitoring & Analysis

### TEST REPORT

Test Report No. : ELES/RNC/2022/1928	Report Release Date : 26.09.2022
Application No. : 14143251	Application Date : 03.09.2022

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Mongia Steel Limited	Sample Ref. No.	: ELES/RNC/PCB/SM/5321
Address	: At – Mouja Dandidih, P.O. Burhiadih, Tundi Road, Giridih- 815302	Location	: Induction Furnace
Plant Status	Operational	Sampling Date	: 06.09.2022
Period of Analysis	: 07.09.2022 to 26.09.2022	Sample Received Date	: 07.09.2022
		Type of Sample	: Flue Gas
		Sampling Procedure	: ELES/DOC/SMPL/02(A)
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

### GENERAL INFORMATION

1	Particular of the Plant	: M.S. Billets Manufacturing Unit
2	Emission Due to	: Process Activity
3	Stack Connected to	: Induction Furnace via Bag Filter
4	Material of Construction of Duct	: M.S
5	Stack Height from Ground Level (m)	: 30.0
6	Height of Sampling Port from Ground Level (m)	: 10.0
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
11	Ladder & Platform	: Permanent

### FUEL CHARACTERISTICS DETAILS

1	Type of Fuel Used	: Electricity
2	Fuel Consumption	: N/A
3	Calorific Value of Fuel (Kcal/Kg)	: N/A

### Page 1 of 2

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## ENGINEERING SERVICES PVT. LTD.

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

CIN: U74999JH2018PTC011125

GST NO:- 20AAECE9713D1Z4 ☎ : 0651-2290103, 9931289451

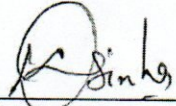
### TEST REPORT

Test Report No. : ELES/RNC/2022/1928	Report Release Date : 26.09.2022
Application No. : 14143251	Application Date : 03.09.2022

Parameter	Unit	Test Protocol	Result
Particulate Matter (PM)	mg/Nm <sup>3</sup>	IS 11255(Part 1):1985; RA 2019	67
Sulphur Di-Oxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	USEPA 6C : 2017	<3.0
Oxides of Nitrogen (NO <sub>x</sub> )	mg/Nm <sup>3</sup>	USEPA Method- 7E:2020	29
Flue Gas Temperature	°C	IS 11255 (Part 3): 2008; RA 2018	58
Barometric Pressure	mmHg	IS 11255 (Part 3): 2008; RA 2018	745
Velocity of Flue Gas	m/sec	IS 11255 (Part 3): 2008; RA 2018	7.19
Quantity of Gas Flow	Nm <sup>3</sup> /hr	IS 11255 (Part 3): 2008; RA 2018	14290

  
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 2 of 2

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CIN: U74999JH2018PTC011125

# ENVIRONMENTAL LABORATORIES &

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## ENGINEERING SERVICES PVT. LTD.

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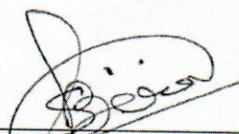
### TEST REPORT

Test Report No. : ELES/RNC/2022/1927	Report Release Date : 26.09.2022
Application No. : 14143251	Application Date : 03.09.2022

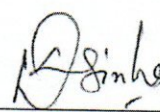
CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Mongia Steel Limited	Sampling Date	: 05.09.2022 to 06.09.2022
Address	: At – Mouja Dandidih, P.O. Burhiadih, Tundi Road, Giridih- 815302	Sampling Received Date	: 08.09.2022
		Type of Sample	: Ambient Noise
Plant Status	: Operational	Sampling procedure	: ELES/DOC/SMPL/03
		Sample Drawn By	: ELES Pvt. Ltd.
		Period of Analysis	: 08.09.2022 to 26.09.2022

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C)	: 29	2	Barometric Pressure (mmHg)	: 746
3	Relative Humidity (%)	: 68	4	Weather Condition	: Partly Cloudy

Location	Unit	Test Protocol	Result			Regulatory Limit
			L <sub>Max</sub>	L <sub>Min</sub>	L <sub>eq</sub>	
Near Main Gate	dB(A)	IS 9989:1981, RA 2020	71.9	40	65	75 dB(A) Day Time & 70 dB(A) Night Time
Sample ID: ELES/RNC/PCB/AN/5318						
Latitude: 24°09'31.17"N			Longitude : 86°13'12.91"E			
Near Office Area	dB(A)	IS 9989:1981, RA 2020	64.9	38.4	58	
Sample ID: ELES/RNC/PCB/AN/5319						
Latitude: 24°09'30.85"N			Longitude : 86°19'40.94"E			
Near Store Room	dB(A)	IS 9989:1981, RA 2020	73.9	38.7	66	
Sample ID: ELES/RNC/PCB/AN/5320						
Latitude: 24°09'36.97"N			Longitude : 86°19'35.55"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

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"Save Environment. Save Future"



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 Environmental Pollution Monitoring & Analysis

CIN: U74999JH2018PTC011125

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

## TEST REPORT

Test Report No. : ELES/RNC/2022/1926	Report Release Date : 26.09.2022
Application No. : 14143251	Application Date : 03.09.2022

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Mongia Steel Limited	Sampling Date	: 05.09.2022 to 06.09.2022
Address	: At – Mouja Dandidih, P.O. Burhiadih, Tundi Road, Giridih- 815302	Sample Received Date	: 08.09.2022
Plant Status	: Operational	Type of Sample	: Ambient Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Period of Analysis	: 08.09.2022 to 19.09.2022

### METEOROLOGICAL INFORMATION

1	Average Temperature (°C) : 29	2	Barometric Pressure (mmHg) : 746
3	Relative Humidity (%) : 68	4	Weather Condition : Partly Cloudy

Parameters	Particulate Matter (PM10)		Fine Particulate Matter (PM2.5)		Sulphur Di-Oxide (SO <sub>2</sub> )		Nitrogen Di-Oxide (NO <sub>2</sub> )			
	IS 5182 (P-23)	IS 5182 (P-24)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-2)	IS 5182 (P-6)	IS 5182 (P-2)	IS 5182 (P-6)		
Test Protocol	100	60	80	80	80	80	80	80		
Locations	Limit	Unit	100	µg/m <sup>3</sup>	60	µg/m <sup>3</sup>	80	µg/m <sup>3</sup>	80	µg/m <sup>3</sup>
Near Main Gate	09:17 – 13:23	70	36	36	9.2	11.6	8.8	10.6	22.8	25.3
	13:23 – 17:14									
	17:20 – 21:23	58								
	21:23 – 01:13									
Latitude:24°09'31.17"N	01:19 – 05:25	66	60	36	9.7	6.8	9.5	10.2	20.7	23.4
Longitude :86°19'42.21"E	05:25 – 09:13									
Sample ID ELES/RNC/PCB/AA/5315	Average	65	60	36	9.7	6.8	9.5	10.2	20.7	23.1
Near Office Area	09:45 – 13:59	68	30	30	6.2	10.2	6.2	10.2	20.7	21.8
	13:59 – 17:41									
	17:47 – 21:50	55								
	21:50 – 01:41									
Latitude:24°09'30.85"N	01:48 – 05:59	60	60	30	8.6	6.2	10.2	20.2	19.5	21.8
Longitude :86°19'40.94"E	05:59 – 09:41									
Sample ID ELES/RNC/PCB/AA/5316	Average	61	60	30	7.7	6.2	10.2	20.2	21.8	21.1

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CIN: U74999JH2018PTC011125

# ENVIRONMENTAL LABORATORIES &

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## ENGINEERING SERVICES PVT. LTD.

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

NABL Accredited & JSPCB Certified Lab. for

Environmental Pollution Monitoring & Analysis

### TEST REPORT

Test Report No. : ELES/RNC/2022/1926	Report Release Date : 26.09.2022
Application No. : 14143251	Application Date : 03.09.2022

Parameters			Particulate Matter (PM10)		Fine Particulate Matter (PM2.5)		Sulphur Di-Oxide (SO <sub>2</sub> )		Nitrogen Di-Oxide (NO <sub>2</sub> )	
Test Protocol			IS 5182 (P-23)		IS 5182 (P-24)		IS 5182 (P-2)		IS 5182 (P-6)	
Locations	Limit	Unit	100	µg/m <sup>3</sup>	60	µg/m <sup>3</sup>	80	µg/m <sup>3</sup>	80	µg/m <sup>3</sup>
Near Store Room	10:17 – 14:25		75	39	39	6.6	7.5	19.4	20.8	22.0
	14:25 – 18:15						10.8		24.5	
	18:21 – 22:29		60				11.2		23.3	
	22:29 – 02:16		71				6.6		19.4	
Latitude:24°09'36.97"N	02:21 – 06:33		71			<5.0		20.2		
Longitude :86°19'35.55"E	06:33 – 10:14					7.5		23.7		
Sample ID ELES/RNC/PCB/AA/5317	Average		69		39		8.1			

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"