



# ASHOK IRON WORKS (P) LTD.

## PLANT - III

Ref.No:AIW-III/EHS/MoEF-CC/HYC/2023-24/APR-356

Date: 31.05.2023

To,  
Additional Principal Chief Conservator of Forests ( C ),  
Minister of Environment & Forest & Climate Change,  
Regional Office ( Southern Zone),  
Kendriya Sadan, 4<sup>th</sup> Floor, E & F Wings,  
17<sup>th</sup> Main Road , Koramangala II Block,  
Bengaluru-560 034

Dear Sir / Madam,

**Sub:Submission of half year compliance Report to EC conditions-Oct 2022 to Mar 2023.**

**Ref:** Environmental Clearance file No SEIA 07 IND 2019 dated 20-03-2020.

With reference to the above subject,State Environmental Impact Assessment Authority, Karnataka has issued Environmental Clearance for the Expansion of production capacity of CI graded casting from 36000 to 120000 TPA at R S No.552,553/P and 592/P, Machhe Industrial Estate Belagavi Taluk & District , Karnataka by M/s ASHOK IRON WORKS (P) LTD.Plant-III. In this regard we are submitting six monthly compliance reports along with Annexure for the period of **October 2022 to March-2023.**

Kindly consider & acknowledge the receipt of the same.

Thanking you  
Your's faithfully,  
For ASHOK IRON WORKS (P) LTD.Plant-III

( Authorized Signatory)



Regd & Corporate Office : Plot No. 9/10/11, Majgaon Road, Udyambag, Belagavi-590 008.

Works : R.S. No. 552/B, 553/B & 592/B, Machhe Industrial Estate, Belagavi-590 014.

CIN : U27104KA1981PTC004487

Ph. No. : +91-831-2412680, 1, 2, 3

E-mail : aiwplant3@ashokiron.com

Fax No. : +91-831-2411065

Web : www.ashokiron.com







## State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India, under section 3(3) of E(P) Act, 1986)

No. SEIAA 07 IND 2019

Date: 20-03-2020

To,

Mr.Nagaraj Sheregar  
Associate Vice President  
M/s Ashok Iron Works Pvt Ltd., Plant III  
R S No.552, 553/P & 592/P, Machhe Industrial estate,  
Belagavi District  
Karnataka

Sir,

**Sub:** Expansion of Production Capacity of CI Graded Casting from 36000 TPA to 1,20,000 TPA at R S No. No.552, 553/P & 592/P, Machhe Industrial estate, Belagavi Taluk and District by M/s Ashok Iron Works Pvt Ltd, Plant -III- issue of Environmental Clearance- Reg.

\* \* \* \* \*

This has reference to your online application dated 28th February 2019 and 20th December 2019 bearing proposal No.SIA/KA/IND/32046/2019 addressed to SEIAA, Karnataka on the subject mentioned above and subsequent letters and reports addressed to SEIAA/SEAC, Karnataka seeking prior Environmental Clearance as per the EIA Notification, 2006.

2. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Application in Form 1, Pre feasibility Report, EIA report for production of proposed CI graded cast iron and additional clarifications furnished in the response to the observation of the SEAC , Karnataka. This is a project covered under Sl.No.3(a) of the Schedule Under of EIA Notification 2006 and amendments made there on. The proposal is for Expansion of Production Capacity of CI Graded Casting at R S No. No.552, 553/P & 592/P, Machhe Industrial estate, Belagavi Taluk and District by M/s Ashok Iron Works Pvt Ltd., Plant III. The total production capacity of the proposed project is 1,20,000 TPA.

3. It is inter-alia, noted that M/s Ashok Iron Works Pvt Ltd have existing facilities and proposed for Expansion of CI Graded Casting Project on a land area of 1,18,653 Sqm. The total water requirement for the project is 128.7 KL/day and It will be met from the KIADB supply, out of which 59.1 KLD for domestic purpose, 51.2 KLD for process and 18 KLD is for cooling. For emergency power backup there is existing DG set of capacity two number of 1050 KVA. There will be one additional DG set of capacity 320 KVA. The total cost of the project is 257.5 Crores.



4. The waste water generation will be 51.2 KLD, out of which 1.0 KLD will be industrial effluent and shall be treated in the ETP of capacity 2 KLD and 1.4 KLD of cooling blow down and 48.8 KLD of domestic shall be treated in biological effluent treatment system of capacity 60 KLD (Existing) and 15 KLD(proposed). The hazardous wastes are, used oil of 2 KL per annum shall be disposed through KSPCB authorized reprocessor. Waste residues containing oil of 1 TPA, Sludge and filter containing oil of 10 numbers/ annum, process waste, residues and sludge of 0.5 TPA and Empty barrels/ containers 90 tonnes/annum shall be handed over to KSPCB authorized vendors.

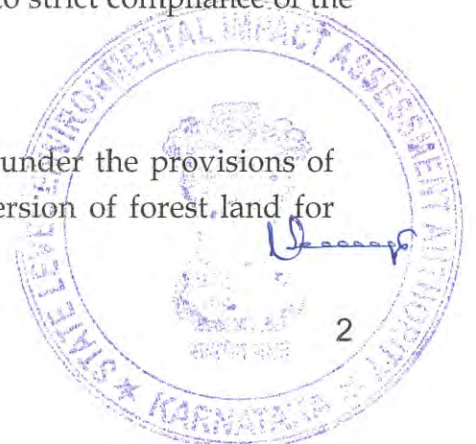
5. The project proposal has been considered by SEAC during the meeting held on 09-04-2019 and got recommended for issue of ToR. The SEIAA considered the proposal during the meeting held on 04-05-2019 and decided to issue ToR for conducting EIA study. Accordingly ToR was issued on 28-05-2019 for conducting Environment Impact Assessment (EIA) study in accordance with EIA notification 2006. The project is located within the notified industrial area and hence does not require public consultation. The EIA has been conducted by AM ENVIRO ENGINEERS No 14/1, 2nd Floor, Harikrupa Patalamma temple street, Basavanagudi, Bengaluru- 560004. Applicability of the notification No. S.O 648 (E) dated 3rd march 2016 used by the MoEF & CC, GoI, regarding mandatory accreditation of environmental consultants from QCI/NABET stand differed in this case in view of the interim order covered by stay order WP No 15026-15038 of 2016, dated 26-03-2016 of Honorable high court of Karnataka at Bangalore from being covered by the accreditation OM issued by the MoEF & CC.

6. Based on the information submitted by you, presentation made by you and your consultant Sri.Mahadevaswamy P Son of Pashupathi, No. 66/15, 1st Floor, 1st cross, 1st main, Ganganagar, RT nagar post Bangalore-560032. The State Level Expert Appraisal Committee (SEAC) examined the proposal in the meeting held on 22-01-2020 and has recommended for issue of Environmental Clearance.

7. The SEIAA Karnataka has considered the project in its meeting held on 17-02-2020 and after due consideration of the relevant documents submitted by you and additional clarifications furnished in response to its observations and the appraisal and recommendation of the SEAC, decided to accord Environmental Clearance in accordance with the provisions of Environmental Impact Assessment Notification-2006 and its subsequent amendments, subject to strict compliance of the following terms and conditions:

### **I.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.

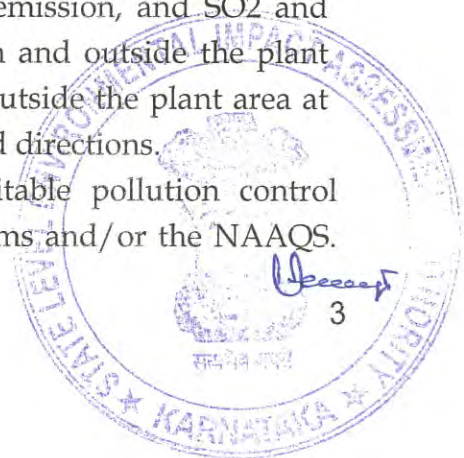




- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific 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. (In case of the presence of schedule-1 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 authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vi. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989

## **II 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 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.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 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.
- iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS.



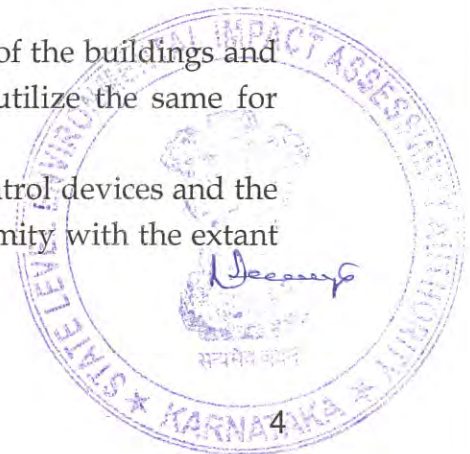


Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

- v. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- vi. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
- vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with

### **III. Water quality monitoring and preservation**

- i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)
- ii. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).
- iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
- iv. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- v. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- vii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.





#### **IV. Noise monitoring and prevention**

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- iii. 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

#### **V. Energy Conservation measures**

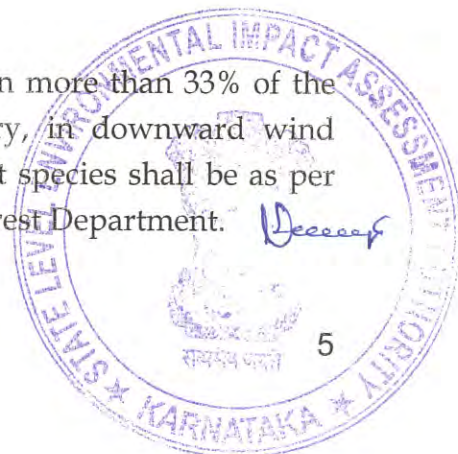
- i. The energy sources for lighting purposes shall preferably be LED based.

#### **VI. Waste management**

- i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- ii. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- iii. The company shall undertake waste minimization measures as below:-
  - a. Metering and control of quantities of active ingredients to minimize waste.
  - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  - c. Use of automated filling to minimize spillage.
  - d. Use of Close Feed system into batch reactors.
  - e. Venting equipment through vapour recovery system.
  - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation

#### **VII. Green Belt**

- i. The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

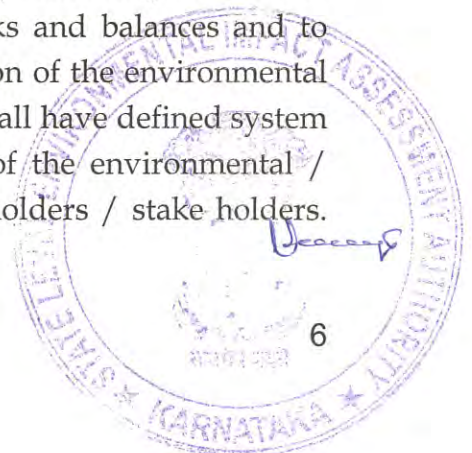


### **VIII. Safety, Public hearing and Human health issues**

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented
- ii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- iii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- v. 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.
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places

### **IX. Corporate Environment Responsibility**

- i. The project authorities shall undertake activities under Corporate Environment Responsibility (CER) with a total cost of not less than Rs.193.1 Lakhs towards activities mentioned in the letter submitted to authority letter dated 13-03-2020 within five years around the project site in accordance with the O.M. F. No.22-65/2017-IA.III dated 01<sup>st</sup> May 2018 and report be submitted to the Authority.
- ii. The company shall have a well laid down environmental policy duly approve 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.

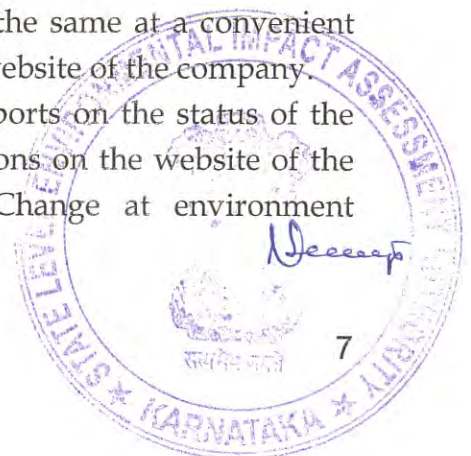




- The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly 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.

#### **X. 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; 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.
- 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.





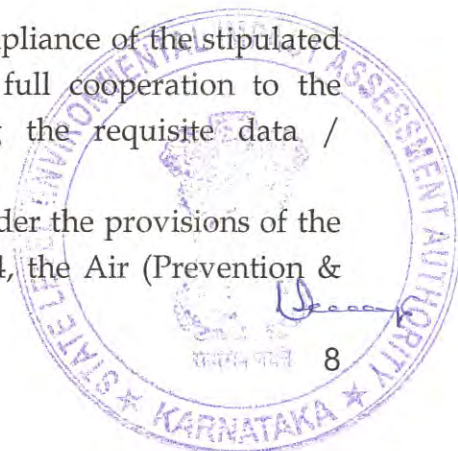
# State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 07 IND 2019

Expansion of CI Graded Casting from 36000 TPA to  
1,20,000 TPA by M/s Ashok Iron Works Pvt Ltd

- vi. "The HYCRs with its contents of a covering letter, compliance reports, and environmental monitoring data has to be in PDF format merged into a single document. The email should clearly mention the name of project, EC No & date, period of submission and to be sent to the Regional Office of MOEF&CC by email only at email ID [rosz.bng-mefcc@gov.in](mailto:rosz.bng-mefcc@gov.in) Hard copy of HYCRs shall not be acceptable".
- vii. 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.
- viii. 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.
- ix. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- x. 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.
- xi. No further expansion or modifications in the plant shall be carried out without prior approval of this Authority or the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xii. 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.
- xiii. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiv. The SEIAA reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xv. The Regional Office of MoEF&CC 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.
- xvi. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention &



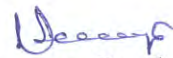


Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

- xvii. 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.



Yours faithfully,

  
(Vijayakumar Gogi)  
Member Secretary,  
SEIAA, Karnataka.

Copy to:

- 1) The Secretary, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi- 110 003.
- 2) The Member Secretary, Karnataka State Pollution Control Board, Bangalore.
- 3) The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F wings, 17<sup>th</sup> Main Road, Koramangala II Block, Bangalore - 560 034.
- 4) Guard File.





# **SIX MONTHLY COMPLIANCE REPORT FOR STIPULATED CONDTIONS TO ENVIRONMENTAL CLEARANCE**

**(MONITORING PERIOD: OCTOBER 2022 TO MARCH 2023)**

*PREPARED FOR*

**EXPANSION OF PRODUCTION CAPACITY OF CI  
GRADED CASTING FROM 36,000 TPA TO 1,20,000 TPA  
AT**

**R S NO. 552, 553/P & 592/P, MACHHE INDUSTRIAL ESTATE, BELAGAVI  
TALUK AND DISTRICT, KARNATAKA**

**PROJECT BY,**

**M/s. ASHOK IRON WORKS PVT. LTD., PLANT III  
R S NO. 552, 553/P & 592/P, MACHHE INDUSTRIAL ESTATE, BELAGAVI  
TALUK AND DISTRICT, KARNATAKA**

*Prepared By,*



**AM ENVIRO ENGINEERS**

**[ISO 9001-2015 CERTIFIED COMPANY]**

**(QCI/NABET Accreditation No. NABET/EIA/2023/SA 0167 (Rev 01)  
No. 90/1, 2nd FLOOR, RATHNAVILAS ROAD, BASAVANAGUDI,  
BENGALURU - 560 004  
PH. NO.: 080 2657 6577**


## **DETAILS OF THE PROJECT**

|    |                                      |                                                                                                                                                                                                                                                                                   |
|----|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | <i>File No.</i>                      | <i>SEIAA 07 IND 2019 dated 20<sup>th</sup> May 2020</i>                                                                                                                                                                                                                           |
| 2  | <i>Project name &amp; Type</i>       | <i>M/s. ASHOK IRON WORKS PVT. LTD., PLANT III</i>                                                                                                                                                                                                                                 |
| 3  | <i>Project Location</i>              | <i>R S No.552,553/ P &amp; 592/P, MACHHE INDUSTRIAL ESTATE, BELAGAVI DISTRICT KARNATAKA</i>                                                                                                                                                                                       |
| 4  | <i>Name of the project proponent</i> | <i>M/s. ASHOK IRON WORKS PVT. LTD.</i>                                                                                                                                                                                                                                            |
| 5  | <i>Total Site Area</i>               | <i>1,18,653 Sqm</i>                                                                                                                                                                                                                                                               |
| 6  | <i>Production capacity</i>           | <i>1,20,000 TPA</i>                                                                                                                                                                                                                                                               |
| 7  | <i>Water requirement</i>             | <i>128.7 KLD</i>                                                                                                                                                                                                                                                                  |
| 8  | <i>Wastewater treatment</i>          | <i>The wastewater generation is 51.2 KLD, out of which 1.0 KLD is industrial effluent, and it is being treated in the ETP of capacity 2 KLD and 48.8 KLD of domestic is being treated in biological effluent treatment plant with capacity of 60 KLD and 15 KLD respectively.</i> |
| 9  | <i>Cost of the project</i>           | <i>257.5 Crores.</i>                                                                                                                                                                                                                                                              |
| 10 | <i>Monitoring period</i>             | <i>October 2022 to March 2023</i>                                                                                                                                                                                                                                                 |
| 10 | <i>Status of the project</i>         | <i>Industry is in operational stage</i>                                                                                                                                                                                                                                           |





## COMPLIANCE TO EC CONDITIONS

| SL NO.                         | CONDITIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | COMPLIANCE                                                                                                                                                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I. Statutory compliance</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                               |
| 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.                                                                                                                                                                                                                                                                          | There is no any diversion of forest land involved in the project hence Forest Clearance is not applicable.                                                                                                                                                    |
| ii.                            | The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.                                                                                                                                                                                                                                                                                                                                                                              | Not Applicable                                                                                                                                                                                                                                                |
| 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. (In case of the presence of schedule-1 species in the study area) | Not Applicable                                                                                                                                                                                                                                                |
| 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.                                                                                                                                                                                                           | Noted. The project proponent has obtained Consent for Establishment (CFE) and Consent For Operation (CFO) for the existing industry. We have obtained consent under the provisions of Water and Air Act for expansion of production capacity of 1,20,000 TPA. |
| v.                             | The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time                                                                                                                                                                                                                                                                                                                                       | For existing facility, we have obtained authorization under the Hazardous Waste Management Rules, 2016.                                                                                                                                                       |
| vi.                            | The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of                                                                                                                                                                                                                                                                                                                                                                       | Not applicable, the proposed project is manufacturing of CI graded casting products.                                                                                                                                                                          |



|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                    | Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>II. Air quality monitoring and preservation</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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 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, | <p>Complied the industry has installed 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrated system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. The continuous emission monitoring system photo is given below.</p>  |





|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                           |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ii.  | The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.                                                                                                                                                                                                                                                                        | The industry is being monitored fugitive emission in the plant premises in every month through labs recognized under Environment (Protection) Act, 1986. Monitoring report of the same is attached as <b>Annexure-1</b> . |
| iii. | The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 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. | Regular Ambient Air Quality monitoring is being done for industry premises and the monitoring reports are attached as Annexure-1.                                                                                         |
| iv.  | To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.                               | Proper emission control systems has been provided in the industry for control of air pollution with sufficient stack height.                                                                                              |
| v.   | Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.                                                                                                                                                                                                                                                                                                       | Raw materials are being stored in covered shed with proper ventilation to prevent dust pollution and other fugitive emissions.                                                                                            |
| vi.  | National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S. R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed                                                                                                                                                                                                                                                            | Not applicable, the proposed project is manufacturing of CI graded casting products.                                                                                                                                      |
| vii. | The National Ambient Air Quality Emission Standards issued by the                                                                                                                                                                                                                                                                                                                                                                                    | Complied.<br>Ambient air quality is being carried out as                                                                                                                                                                  |


|                                                       |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                       | Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with                                                                                                                                                                                           | per NAAQS standards. Monitoring reports are regularly submitted to regional office KSPCB at regular intervals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>III. Water quality monitoring and preservation</b> |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| i.                                                    | The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD) | Noted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ii.                                                   | As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).                                                          | <p>All the process effluent generated is being treated in effluent treatment plant of capacity 2 KLD and domestic waste is being treated in Sewage Treatment Plant of capacity 15 and 60 KLD. Treated water is being completely utilized for gardening and hence there is no discharge of waste/treated water outside the premises.</p> <p style="text-align: center;"><b><u>ETP - 2 KLD</u></b></p>  <p style="text-align: center;"><b><u>STP-60KLD</u></b></p>  |




|      |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |                                                                                                                                                                                                                                                   | <p align="center"><b><u>STP-15 KLD</u></b></p>                                                                                                                                                                                                                                                                                                                                      |
| iii. | The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent | <p>Complied.</p> <p>It is ensured that the treated water from ETP and STP conforms to the standards specified by the State Pollution Control Board.</p>                                                                                                                                                                                                                                                                                                               |
| iv.  | Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.                                            | <p>Fresh water demand for the proposed project is sourced from KIADB water supply and is within the limits specified in the consent.</p>                                                                                                                                                                                                                                                                                                                              |
| v.   | Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.                                                           | <p>Noted and is being followed.</p> <p>The effluent generated is being treated and completely reused for gardening, hence there is no any discharge.</p> <p>The runoff from open area is used for recharging ground water. Separate storm water drain has been provided in the industrial premises to avoid mixing with wastewater. Photos of storm water drain is attached.</p>  |
| vi.  | The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same                                                                                                  | <p>Proper plans are made to harvest surface as well as rainwater from the rooftops of the building. Roof top rain water harvested in the industry is being used for</p>                                                                                                                                                                                                                                                                                               |




|                                            |                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | for different industrial operations within the plant.                                                                                                                                                                      | <p>various activities such as gardening to conserve fresh water.</p> <p>The run-off from open areas is used for recharging ground water.</p>                                                                        |
| vii                                        | The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.                 | <p>DG sets are provided with adequate stack height of 30 m above roof level with acoustic enclosures to mitigate the noise pollution. The stack height photo is given below.</p>                                   |
| <b>IV. Noise monitoring and prevention</b> |                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                       |
| i.                                         | Acoustic enclosure shall be provided to DG set for controlling the noise pollution                                                                                                                                         | Acoustic enclosure has been provided to DG set to mitigate the noise pollution.                                                                                                                                                                                                                       |
| ii.                                        | The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. | We have installed acoustic enclosure for DG sets. Greenbelt has been provided around the industrial premises to reduce noise levels to outside. It is ensured that the noise levels in and around the plant premises are within the standards. Noise generation levels are being monitored regularly. |
| iii.                                       | 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                                                                              | The ambient noise levels are maintained within the standards prescribed under E(P) A Rules, 1986 viz. 75 dB (A) during daytime and 70 dB (A) during nighttime.                                                                                                                                        |




|                                        |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | night time                                                                                                                                                                |                                                                                                                                                                                                                                                                                                 |
| <b>V. Energy Conservation measures</b> |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                 |
| i.                                     | The energy sources for lighting purposes shall preferably be LED based.                                                                                                   | Complied. Lighting sources are LED based to reduce energy consumption.                                                                                                                                                                                                                          |
| <b>VI. Waste management</b>            |                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                 |
| i.                                     | Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.      | <p>Hazardous wastes are stored in designated areas in tanks, tank farms, drums, carboys in safe and secured manner before disposal to authorized agencies. The photographs of the same are given below.</p>  |
| ii.                                    | Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. | Not applicable, the proposed project is manufacturing of CI graded casting products.                                                                                                                                                                                                            |
| iii.                                   | The company shall undertake waste minimization measures as below:                                                                                                         |                                                                                                                                                                                                                                                                                                 |
|                                        | a. Metering and control of quantities of active ingredients to minimize waste.                                                                                            | Not applicable                                                                                                                                                                                                                                                                                  |
|                                        | b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.                                                              | Not applicable                                                                                                                                                                                                                                                                                  |
|                                        | c. Use of automated filling to minimize spillage.                                                                                                                         | Not applicable                                                                                                                                                                                                                                                                                  |
|                                        | d. Use of Close Feed system into                                                                                                                                          | Not applicable                                                                                                                                                                                                                                                                                  |

|                                                             |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | batch reactors.                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                             | e Venting equipment through vapour recovery system.                                                                                                                                                                                                                                                    | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                             | f. Use of high pressure hoses for equipment clearing to reduce wastewater generation                                                                                                                                                                                                                   | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>VII. Green Belt</b>                                      |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                |
| i.                                                          | The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. | <p>The industry has developed green belt in an area of 1,340 sqm (33.2% of the total site area) with suitable species of the plants as per CPCB guidelines. More than 50 numbers of Native/ indigenous plant species are planted in the industry. Photographs of green belt area in the industrial premises are shown:</p>  |
| <b>VIII. Safety, Public hearing and Human health issues</b> |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                |
| i.                                                          | Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented                                                                                                                                                            | Noted and is being followed.                                                                                                                                                                                                                                                                                                                                                                                   |



|      |                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                          |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ii.  | The unit shall make the arrangement for protection of possible fire hazard during manufacturing process in material handling. Fire fighting system shall be as per the norms.                                                                                                                                    | <p>Proper firefighting systems are provided in the industry. Necessary arrangements are made for the protection of possible fire hazards during manufacturing process and material handling. The firefighting equipment photos are attached below</p>  |
| iii. | The PP shall provide Personal Protection Equipment (PPE) as per the norm of Factory Act.                                                                                                                                                                                                                         | <p>Personal Protection Equipment (PPE) are provided to the workers. Photograph of the same is attached below.</p>                                                                                                                                     |
| iv.  | Training shall be imparted to all employees on safety and health aspects chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.                            | <p>Proper training to all employees is being given on safety and health aspects. Health check-up for all employees is undertaken on regular basis.</p>                                                                                               |
| v.   | 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 | Not applicable, it is an existing facility.                                                                                                                                                                                                                                                                                              |

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                 | after the completion of the project.                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                      |
| vi.                                             | Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.                                                                                                                                                                                                                                                                        | Medical checkup for employee is being done regularly.                                                                                                                                                                                                                                                                                                                |
| vii.                                            | There shall be adequate space inside the plant premises earmarked to parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places                                                                                                                                                                                                                  | <p>Noted and being followed. Adequate parking area has been provided inside the plant premises for parking vehicles for raw materials and finished products. Parking outside the industrial premises is strictly prohibited.</p> <p>Parking facility photos are given below.</p>  |
| <b>IX. Corporate Environment Responsibility</b> |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                      |
| i.                                              | The project authorities shall undertake activities under Corporate Environment Responsibility (CER) with a total cost of not less the Rs.193.1 Lakhs towards activities mentioned in the letter submitted to authority letter dated 13-03-2020 within five years around the project site i accordance with the O.M. F. No.22-65/2017-IA.III dated 01st May 2018 an report be submitted to the Authority. | Noted and complied.                                                                                                                                                                                                                                                                                                                                                  |
| ii.                                             | The company shall have a well laid down environmental policy duly approve by the Board of Directors.                                                                                                                                                                                                                                                                                                     | The company is having environmental policy prescribing for standard operating procedures to have proper checks and                                                                                                                                                                                                                                                   |

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                              |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | <p>The environmental policy should prescribe to standard operating procedures to have proper checks and balances and bring into focus any infringements/deviation/ violation of the environment / 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 holder 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>balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions duly approved by the Board of Directors.</p> |
| iii.                    | <p>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.</p>                                                                                                                                                                                                                                                                                                                               | <p>A separate Environmental Cell both at the project and company head quarter level, with qualified personnel has been set up under the control of the senior Executive.</p> |
| iv.                     | <p>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.</p>                                                        | <p>Noted and will be complied.<br/>M/s. Ashok Iron works Pvt Ltd. adheres to the condition and will not divert environment management fund for any other purpose.</p>        |
| v.                      | <p>Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.</p>                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>As mentioned in the EC, Self-environmental audit and third-party environmental audit will be carried out.</p>                                                             |
| <b>X. Miscellaneous</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                              |
| i.                      | <p>The project proponent shall make public the environmental clearance</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>Complied. Issue of environmental clearance for M/s. Ashok iron Works</p>                                                                                                  |



|      |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                        |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | 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. | Pvt. Ltd has advertised in two newspapers to reach out to the public namely Samyuktha Karnataka (in Kannada) dated on June 4 <sup>th</sup> , 2020. The same has been displayed in the company website.                 |
| 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.                                                                    | Complied. The company has started the project after obtaining CFE and CFO from Karnataka State Pollution Control Board (KSPCB) and we have already informed to concerned authorities about the project implementation. |
| 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.                                                                                                                                          | Noted. Status of EC conditions compliance including monitoring results will be uploaded in the website and the same will be updated every 6 months.                                                                    |
| iv.  | 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.                                      | Noted and complied. Monitoring of ambient air quality and stack emissions are being carried out regularly and the same has been displayed in public and company website.                                               |
| 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.                                                                                                             | Noted and being complied. Six-monthly compliance report to EC conditions is being prepared and regularly submit to MoEF&CC regional office.                                                                            |
| vi.  | The HYCRs with its contents of a covering letter, compliance reports,                                                                                                                                                                                                                                                                                   | Noted and being complied regularly.                                                                                                                                                                                    |

|       |                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                             |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | and environmental monitoring data has to be in PDF format merged into a single document. The email should clearly mention the name of project, EC No & date, period of submission and to be sent to the Regional Office of MOEF&CC by email only at email ID rosz.bng-mefccwgov.in Hard copy of HYCRs shall not be acceptable". |                                                                                                                                                                                                                                                                                             |
| vii.  | 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.                                                    | Environmental statement in Form-V is being submitted to the Karnataka State Pollution Control Board (KSPCB) in the end of every financial year as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and the same is being uploaded in the company website. |
| viii. | The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and the final approval of the project by the concerned authorities commencing the land development work and start of production operation by the project.                                                         | Noted and followed.                                                                                                                                                                                                                                                                         |
| ix.   | The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.                                                                                                                                                                                            | Noted, all the conditions made by the Karnataka State Pollution Control Board and the State Government are being followed.                                                                                                                                                                  |
| x.    | 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.                                                                                                       | M/s. Ashok Iron works Pvt. Ltd. will comply with all environmental protection measures and safeguards proposed in the documents submitted to the ministry.                                                                                                                                  |
| xi.   | No further expansion or modifications in the plant shall be carried out without prior approval of this Authority or the Ministry of Environment, Forests and Climate Change (MoEF&CC).                                                                                                                                          | Noted, no further expansion or modifications in the plant will be carried out without prior approval of this Authority or the Ministry of Environment, Forests and Climate Change (MoEF&CC).                                                                                                |
| xii.  | Concealing factual data or submission                                                                                                                                                                                                                                                                                           | Noted. We will always abide to the                                                                                                                                                                                                                                                          |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                 |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|        | of false/ fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.                                                                                                                                                                                                                                                                                                                                                                             | terms and conditions of the Board.                                              |
| xiii.  | The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.                                                                                                                                                                                                                                                                                                                                                                                                                          | Noted. We will always abide to the terms and conditions of the Board.           |
| xiv    | The SEIAA, Karnataka reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions,                                                                                                                                                                                                                                                                                                                                                                           | Noted. We will always abide to the terms and conditions of the Board.           |
| xv.    | The Regional Office of MoEF&CC 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.                                                                                                                                                                                                                                                                                     | Complete cooperation will be extended to the officials during their inspection. |
| xvi.   | 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. | Noted.                                                                          |
| xvii . | Any appeal against this EC shall lie with the National Green Tribunal, preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010,                                                                                                                                                                                                                                                                                                                                                         | Noted.                                                                          |



# **ANNEXURE-1**





# MSV Analytical Laboratories

(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 9945456764, 08392-255169

Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalbellary@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/7754

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Name of the location : Near Weigh Bridge
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sample : Sample collected with FDS GTI-131& RDS APM-460
5. Date of Sample Receipt : 03.05.2023
6. Analysis Starting Date : 04.05.2023
7. Analysis Completion Date : 06.05.2023
8. Wind Direction : Up wind Direction South East,  
Down Wind Direction North East

| S. No | Parameter                             | Protocols               | Units               | Duration of Monitoring | Results | NAAQ STANDARDS |
|-------|---------------------------------------|-------------------------|---------------------|------------------------|---------|----------------|
| 1     | Particulate Matter PM <sub>10</sub>   | IS-5182(Part-23) – 2006 | µg / m <sup>3</sup> | 24 hrs                 | 96.70   | 100            |
| 2     | Particulate Matter PM <sub>2.5</sub>  | IS-5182(Part-24) – 2019 | µg / m <sup>3</sup> | 24 hrs                 | 50.25   | 60             |
| 3     | Sulphur Dioxide as SO <sub>x</sub>    | IS-5182(Part-2) – 2001  | µg / m <sup>3</sup> | 24 hrs                 | 8.41    | 80             |
| 4     | Oxides of Nitrogen as NO <sub>x</sub> | IS-5182(Part-6) – 2006  | µg / m <sup>3</sup> | 24 hrs                 | 12.79   | 80             |

|           |                                                                                         |
|-----------|-----------------------------------------------------------------------------------------|
| INFERENCE | As per NAAQS Standards                                                                  |
|           | Report Status :- The analyzed values for above measured parameter are within the limits |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.  
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.  
4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.  
5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.





# MSV Analytical Laboratories

(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 9945456764, 08392-255169

Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/7755

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Name of the location : Near Main Gate
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sample : Sample collected with FDS GTI-131& RDS APM-460
5. Date of Sample Receipt : 03.05.2023
6. Analysis Starting Date : 04.05.2023
7. Analysis Completion Date : 06.05.2023
8. Wind Direction : Up wind Direction South East,  
Down Wind Direction North East

| S. No | Parameter                             | Protocols               | Units               | Duration of Monitoring | Results | NAAQ STANDARDS |
|-------|---------------------------------------|-------------------------|---------------------|------------------------|---------|----------------|
| 1     | Particulate Matter PM <sub>10</sub>   | IS-5182(Part-23) - 2006 | µg / m <sup>3</sup> | 24 hrs                 | 71.50   | 100            |
| 2     | Particulate Matter PM <sub>2.5</sub>  | IS-5182(Part-24) - 2019 | µg / m <sup>3</sup> | 24 hrs                 | 36.84   | 60             |
| 3     | Sulphur Dioxide as SO <sub>x</sub>    | IS-5182(Part-2) - 2001  | µg / m <sup>3</sup> | 24 hrs                 | 7.65    | 80             |
| 4     | Oxides of Nitrogen as NO <sub>x</sub> | IS-5182(Part-6) - 2006  | µg / m <sup>3</sup> | 24 hrs                 | 12.90   | 80             |

|           |                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------|
| INFERENCE | As per NAAQS Standards<br>Report Status :- The analyzed values for above measured parameter are within the limits |
|-----------|-------------------------------------------------------------------------------------------------------------------|

Analysed by

*[Signature]*

Authorized Signatory

*[Signature]*

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,

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# MSV Analytical Laboratories

(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 9945456764, 08392-255169

Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/7756

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Name of the location : Near STP Plant (60 KLD)
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sample : Sample collected with FDS GTI-131 & RDS APM-460
5. Date of Sample Receipt : 03.05.2023
6. Analysis Starting Date : 04.05.2023
7. Analysis Completion Date : 06.05.2023
8. Wind Direction : Up wind Direction South East,  
Down Wind Direction North East

| S. No | Parameter                             | Protocols               | Units               | Duration of Monitoring | Results | NAAQ STANDARDS |
|-------|---------------------------------------|-------------------------|---------------------|------------------------|---------|----------------|
| 1     | Particulate Matter PM <sub>10</sub>   | IS-5182(Part-23) - 2006 | µg / m <sup>3</sup> | 24 hrs                 | 71.04   | 100            |
| 2     | Particulate Matter PM <sub>2.5</sub>  | IS-5182(Part-24) - 2019 | µg / m <sup>3</sup> | 24 hrs                 | 29.71   | 60             |
| 3     | Sulphur Dioxide as SO <sub>x</sub>    | IS-5182(Part-2) - 2001  | µg / m <sup>3</sup> | 24 hrs                 | 7.09    | 80             |
| 4     | Oxides of Nitrogen as NO <sub>x</sub> | IS-5182(Part-6) - 2006  | µg / m <sup>3</sup> | 24 hrs                 | 11.48   | 80             |

|           |                                                                                         |
|-----------|-----------------------------------------------------------------------------------------|
| INFERENCE | As per NAAQS Standards                                                                  |
|           | Report Status :- The analyzed values for above measured parameter are within the limits |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 9945456764, 08392-255169

Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7757

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Manual Work tables, Snag Grinding M/c-1, Robot-1
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 03.05.2023
5. Analysis Starting Date : 04.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

## GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 03.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 38         |
| Velocity (m/s)         | 6.46       |
| Height (m)             | 20 m AGL   |
| Diameter (m)           | 1.0        |

## RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 42.39  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 10.14  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 15.27  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7758

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Robots - 2 Nos
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 03.05.2023
5. Analysis Starting Date : 04.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 03.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 40         |
| Velocity (m/s)         | 6.38       |
| Height (m)             | 20 m AGL   |
| Diameter (m)           | 1.0        |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 30.27  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 9.85   | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 15.19  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters,  
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MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7759

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Pneumatic sand conveying system-  
Conventional Core Shop
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 03.05.2023
5. Analysis Starting Date : 04.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

## GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 03.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 44         |
| Velocity (m/s)         | 6.73       |
| Height (m)             | 9 m AGL    |
| Diameter (m)           | 0.15       |

## RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 66.21  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 10.10  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 14.94  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7759

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : High Frequency Decoring Machine No.1, Snag Grinding Machine No.2 & Snag Grinding Machine No.3
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 03.05.2023
5. Analysis Starting Date : 04.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

## GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 03.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 42         |
| Velocity (m/s)         | 6.90       |
| Height (m)             | 12 m AGL   |
| Diameter (m)           | 1.0        |

## RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 36.01  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 8.74   | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 14.12  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

*[Signature]*

Authorized Signatory

*[Signature]*

B.Chinna Lingana Gouda  
Chief executive of the laboratory



END OF REPORT

Note: 1. The results listed only to the tested samples & applicable parameters,  
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**Email** : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com **Web ID** : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7760

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Robo No-4, Manual Work tables, Air Booth No.3 & Nozzle Blast Machine No.3
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 03.05.2023
5. Analysis Starting Date : 04.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

## GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 03.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 39         |
| Velocity (m/s)         | 6.27       |
| Height (m)             | 20 m AGL   |
| Diameter (m)           | 1.0        |

## RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 28.48  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 8.12   | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 13.75  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters,  
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MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7761

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Shot Blast Machine-1
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 03.05.2023
5. Analysis Starting Date : 04.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 03.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 43         |
| Velocity (m/s)         | 6.71       |
| Height (m)             | 18 m AGL   |
| Diameter (m)           | 0.48       |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 146.5  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 11.08  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 17.35  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters,  
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MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7762

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Shot Blast Machine- 2, Air Booth 1& 2, Nozzle Blast Machine- 2- common cyclone, bag filter & common chimney
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 03.05.2023
5. Analysis Starting Date : 04.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 03.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 40         |
| Velocity (m/s)         | 6.97       |
| Height (m)             | 20 m AGL   |
| Diameter (m)           | 0.48       |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 142.5  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 11.61  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 15.84  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters,  
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MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7763

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Shot Blast Machine-3
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 03.05.2023
5. Analysis Starting Date : 04.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 03.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 38         |
| Velocity (m/s)         | 6.56       |
| Height (m)             | 18 m AGL   |
| Diameter (m)           | 0.48       |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 117.5  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 10.68  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 18.02  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.  
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7764

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Manipulator Shot Blasting Machine
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 03.05.2023
5. Analysis Starting Date : 04.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 03.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 44         |
| Velocity (m/s)         | 6.73       |
| Height (m)             | 15 m AGL   |
| Diameter (m)           | 0.48       |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 111.8  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 10.56  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 15.31  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.  
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MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7765

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Shot Blast Machine No-5 (VP23)
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 03.05.2023
5. Analysis Starting Date : 04.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

## GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 05.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 39         |
| Velocity (m/s)         | 6.47       |
| Height (m)             | 15 m AGL   |
| Diameter (m)           | 0.48       |

## RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 66.57  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 11.05  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 15.32  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by



Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory

- Note: 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.  
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7824

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : New Decoring System & Intermediate hopper station for sand conveying to Loramendi cell
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 04.05.2023
5. Analysis Starting Date : 05.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 04.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 42         |
| Velocity (m/s)         | 6.70       |
| Height (m)             | 19 m AGL   |
| Diameter (m)           | 1.10       |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 62.52  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 7.96   | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 12.71  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.  
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MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7825

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Mould box Pouring & Cooling Line
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 04.05.2023
5. Analysis Starting Date : 05.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 04.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 37         |
| Velocity (m/s)         | 6.45       |
| Height (m)             | 25 m AGL   |
| Diameter (m)           | 1.88       |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 41.95  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 8.73   | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 13.28  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.  
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalbellary@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7826

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Pneumatic Sand Conveying System to  
Loramendi Cell
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 04.05.2023
5. Analysis Starting Date : 05.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 04.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 41         |
| Velocity (m/s)         | 6.59       |
| Height (m)             | 12 m AGL   |
| Diameter (m)           | 0.48       |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 141.2  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 12.05  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 18.32  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.  
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**Email** : labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com **Web ID** : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7828

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Core Cell core Shooter (Loramendi)
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 04.05.2023
5. Analysis Starting Date : 05.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 04.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 44         |
| Velocity (m/s)         | 6.73       |
| Height (m)             | 9 m AGL    |
| Diameter (m)           | 0.35       |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 33.52  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 8.01   | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 13.98  | Not Specified   |
| Carbon Monoxide    | INSTRUMENT MANUAL       | %                  | 0.32   | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.  
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7829

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Sand Drying Unit-I
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 04.05.2023
5. Analysis Starting Date : 05.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 04.05.2023 |
| Fuel Used              | Wood/PNG   |
| Stack Temperature (°C) | 46         |
| Velocity (m/s)         | 6.75       |
| Height (m)             | 22 m AGL   |
| Diameter (m)           | 1.0        |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 124.1  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 11.93  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 18.25  | Not Specified   |
| Carbon Monoxide    | INSTRUMENT MANUAL       | %                  | 0.18   | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

*[Signature]*



Authorized Signatory

*[Signature]*

B.Chinna Lingana Gouda  
Chief executive of the laboratory

Note : 1. The results listed only to the tested samples & applicable parameters,  
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MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7830

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Sand Drying Unit-II
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 04.05.2023
5. Analysis Starting Date : 05.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

## GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 04.05.2023 |
| Fuel Used              | PNG        |
| Stack Temperature (°C) | 39         |
| Velocity (m/s)         | 6.57       |
| Height (m)             | 22 m AGL   |
| Diameter (m)           | 1.0        |

## RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 61.35  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 10.04  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 14.91  | Not Specified   |
| Carbon Monoxide    | INSTRUMENT MANUAL       | %                  | 0.038  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters,  
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# MSV Analytical Laboratories

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C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 9945456764, 08392-255169

Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7831

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Shot Blast Machine-6
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 04.05.2023
5. Analysis Starting Date : 05.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 04.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 42         |
| Velocity (m/s)         | 6.94       |
| Height (m)             | 15 m AGL   |
| Diameter (m)           | 0.48       |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 138.5  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 12.39  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 17.04  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters,  
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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 9945456764, 08392-255169

Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7832

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : DG Set 1050 KVA-2Nos. - common chimney
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 04.05.2023
5. Analysis Starting Date : 05.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

## GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 04.05.2023 |
| Fuel Used              | Diesel     |
| Stack Temperature (°C) | 134        |
| Velocity (m/s)         | 8.16       |
| Height (m)             | 32 m AGL   |
| Diameter (m)           | 1.10       |

## RESULTS

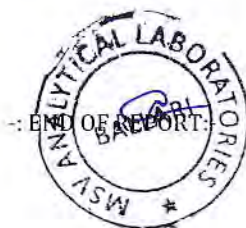
| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 85.12  | 100             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 13.91  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 21.58  | 970             |
| NMHC               | IS-5182(Part 21) - 2001 | mg/Nm <sup>3</sup> | 0.52   | 100             |
| Carbon Monoxide    | INSTRUMENT MANUAL       | g/kw-hr            | 1.38   | 150             |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com **Web ID :** www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7833

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : 1 X12T Stress Relieving Furnace & 1X20T  
Stress Relieving Furnace (SRF)
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 04.05.2023
5. Analysis Starting Date : 05.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

## GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 04.05.2023 |
| Fuel Used              | PNG        |
| Stack Temperature (°C) | 131        |
| Velocity (m/s)         | 7.59       |
| Height (m)             | 16         |
| Diameter (m)           | 0.6        |

## RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 91.45  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 8.06   | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 13.71  | Not Specified   |
| Carbon Monoxide    | INSTRUMENT MANUAL       | %                  | 0.34   | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by



Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,  
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MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7834

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : 12T SRF No.3 & 20T SRF No.4(PNG)
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 04.05.2023
5. Analysis Starting Date : 05.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 04.05.2023 |
| Fuel Used              | PNG        |
| Stack Temperature (°C) | 121        |
| Velocity (m/s)         | 7.72       |
| Height (m)             | 18         |
| Diameter (m)           | 0.6        |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 58.22  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 7.61   | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 13.58  | Not Specified   |
| Carbon Monoxide    | INSTRUMENT MANUAL       | %                  | 0.32   | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.  
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MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7835

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Cold Box Core Shooter- 1 to 12No's  
(Conventional Core Shop)
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 04.05.2023
5. Analysis Starting Date : 05.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

## GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 04.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 32         |
| Velocity (m/s)         | 6.60       |
| Height (m)             | 20         |
| Diameter (m)           | 1          |

## RESULTS

| Parameters | Protocol | Unit               | Result | KSPCB Standards |
|------------|----------|--------------------|--------|-----------------|
| T VOC's    | GC-FID   | µg/Nm <sup>3</sup> | BDL    | Not Specified   |

BDL: Below Detectable Limit

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7836

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Cold Box Core Shooter 13No & 14No (Each 80Ltrs)
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 04.05.2023
5. Analysis Starting Date : 05.05.2023
6. Analysis Completion Date : 06.05.2023
7. Particulars of sample : Sample collected with GTI-121

## GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 04.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 26         |
| Velocity (m/s)         | 6.24       |
| Height (m)             | 8          |
| Diameter (m)           | 0.45       |

## RESULTS

| Parameters | Protocol | Unit               | Result | KSPCB Standards |
|------------|----------|--------------------|--------|-----------------|
| T VOC's    | GC-FID   | µg/Nm <sup>3</sup> | BDL    | Not Specified   |

BDL: Below Detectable Limit

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



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MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7956

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Medium Frequency Induction Furnace System - 1
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 05.05.2023
5. Analysis Starting Date : 06.05.2023
6. Analysis Completion Date : 08.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 05.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 42         |
| Velocity (m/s)         | 6.98       |
| Height (m)             | 25 m AGL   |
| Diameter (m)           | 1.88       |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 67.16  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 10.89  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 17.01  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters,  
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com **Web ID** : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7957

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Core Drying Oven-2 No,s (Wood fired  
Conventional Core shop)
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 05.05.2023
5. Analysis Starting Date : 06.05.2023
6. Analysis Completion Date : 08.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 05.05.2023 |
| Fuel Used              | Wood       |
| Stack Temperature (°C) | 54         |
| Velocity (m/s)         | 6.90       |
| Height (m)             | 18 m AGL   |
| Diameter (m)           | 0.27       |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 39.75  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 8.99   | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 14.34  | Not Specified   |
| Carbon Monoxide    | INSTRUMENT MANUAL       | %                  | 0.21   | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters,  
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MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7958

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Paint Booth No.1(PNG)
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 05.05.2023
5. Analysis Starting Date : 06.05.2023
6. Analysis Completion Date : 08.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 05.05.2023 |
| Fuel Used              | PNG        |
| Stack Temperature (°C) | 39         |
| Velocity (m/s)         | 5.92       |
| Height (m)             | 4.5        |
| Diameter (m)           | 0.6        |

### RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 16.07  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 8.95   | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 13.82  | Not Specified   |
| T VOC's            | GC-FID                  | µg/Nm <sup>3</sup> | BDL    | Not Specified   |

BDL: Below Detectable Limit

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by



Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,  
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# MSV Analytical Laboratories

(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 **Contact No** : Mob : 94498 03895, (O) : 9945456764, 08392-255169

Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com **Web ID** : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7959

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : High Frequency Decoring Machine No.2
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 05.05.2023
5. Analysis Starting Date : 06.05.2023
6. Analysis Completion Date : 08.05.2023
7. Particulars of sample : Sample collected with GTI-121

## GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 05.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 44         |
| Velocity (m/s)         | 6.72       |
| Height (m)             | 10 m AGL   |
| Diameter (m)           | 0.3        |

## RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 50.08  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 9.05   | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 14.72  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
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Sanganakallu Road, KEB Circle, Ballari - 583103 **Contact No** : Mob : 94498 03895, (O) : 9945456764, 08392-255169

Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com **Web ID** : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7960

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : High Frequency Decoring Machine No.3
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 05.05.2023
5. Analysis Starting Date : 06.05.2023
6. Analysis Completion Date : 08.05.2023
7. Particulars of sample : Sample collected with GTI-121

### GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 05.05.2023 |
| Fuel Used              | Electric   |
| Stack Temperature (°C) | 38         |
| Velocity (m/s)         | 6.82       |
| Height (m)             | 5 m AGL    |
| Diameter (m)           | 0.45       |

### RESULTS

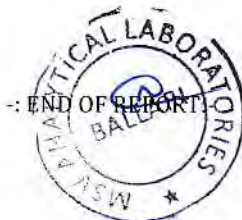
| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 39.02  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 9.15   | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 15.22  | Not Specified   |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com **Web ID** : www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7961

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : 320 KVA DG Set
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 05.05.2023
5. Analysis Starting Date : 06.05.2023
6. Analysis Completion Date : 08.05.2023
7. Particulars of sample : Sample collected with GTI-121

## GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 05.05.2023 |
| Fuel Used              | Diesel     |
| Stack Temperature (°C) | 104        |
| Velocity (m/s)         | 7.28       |
| Height (m)             | 12 m AGL   |
| Diameter (m)           | 0.12       |

## RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 54.07  | 100             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 12.35  | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 17.92  | 970             |
| NMHC               | IS-5182(Part 21) - 2001 | mg/Nm <sup>3</sup> | 0.28   | 100             |
| Carbon Monoxide    | INSTRUMENT MANUAL       | g/kw-hr            | 0.73   | 150             |

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.  
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com **Web ID :** www.msvalbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: MSVAL/2023/7962

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Stack ID : Paint Booth No. 2
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Sample Receipt : 05.05.2023
5. Analysis Starting Date : 06.05.2023
6. Analysis Completion Date : 08.05.2023
7. Particulars of sample : Sample collected with GTI-121

## GENERAL DETAILS

|                        |            |
|------------------------|------------|
| Date of Monitoring     | 05.05.2023 |
| Fuel Used              | PNG        |
| Stack Temperature (°C) | 35         |
| Velocity (m/s)         | 6.18       |
| Height (m)             | 13.2       |
| Diameter (m)           | 0.6        |

## RESULTS

| Parameters         | Protocol                | Unit               | Result | KSPCB Standards |
|--------------------|-------------------------|--------------------|--------|-----------------|
| Particulate Matter | IS-11255(Part1) - 1985  | mg/Nm <sup>3</sup> | 21.47  | 150             |
| Sulphur dioxide    | IS-11255(Part 2) - 1985 | mg/Nm <sup>3</sup> | 9.14   | Not Specified   |
| Nitrogen dioxide   | IS-11255(Part 7) - 2005 | mg/Nm <sup>3</sup> | 12.05  | Not Specified   |
| T VOC's            | GC-FID                  | µg/Nm <sup>3</sup> | BDL    | Not Specified   |

BDL: Below Detectable Limit

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards                                                                 |
|           | Report Status: - The analyzed value for above measured parameter is within the limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



- Note:
1. The results listed only to the tested samples & applicable parameters,
  2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/17/04

## AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No: MSVAL/2023/7766

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Sample Collected By : MSV Analytical Laboratories
3. Particulars of the sample collected : Noise meter
4. Date of Monitoring : 03.05.2023
5. Report Date : 08.05.2023
6. Method Adopted : Instrument Manual Method

| S.No     | Sample Location    | Time Frequency     | RESULTS        |                |               | KSPCB limits in dB(A) Leq |
|----------|--------------------|--------------------|----------------|----------------|---------------|---------------------------|
|          |                    |                    | L Min in dB(A) | L Max in dB(A) | Leq. in dB(A) |                           |
| Day Time |                    |                    |                |                |               |                           |
| 1        | Near Main Gate     | 10.05am to 10.20am | 71.4           | 73.9           | 72.8          | 75<br>(6.00am to 10.00pm) |
| 2        | Near Fettling Area | 10.30am to 10.45am | 69.3           | 72.7           | 71.3          |                           |

|           |                                                                        |
|-----------|------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards,                                                |
|           | Report Status :- In the all locations Noise level is within the limits |

Analysed by



Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,  
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**Email :** labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com **Web ID :** www.msvalbellary.com

MSVAL/A/F/17/04

## AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No: MSVAL/2023/7963

Report Issued Date: 08.05.2023

- Name of the Project** : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
- Sample Collected By** : MSV Analytical Laboratories
- Particulars of the sample collected** : Noise meter
- Date of Monitoring** : 05.05.2023
- Report Date** : 08.05.2023
- Method Adopted** : Instrument Manual Method

| S.No       | Sample Location | Time Frequency     | RESULTS        |                |               | KSPCB limits in dB(A) Leq |
|------------|-----------------|--------------------|----------------|----------------|---------------|---------------------------|
|            |                 |                    | L Min in dB(A) | L Max in dB(A) | Leq. in dB(A) |                           |
| Night Time |                 |                    |                |                |               |                           |
| 1          | Near Main Gate  | 10.05pm to 10.20pm | 61.7           | 63.2           | 62.4          | 70<br>(10.00pm to 6.00am) |

|           |                                                                        |
|-----------|------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Standards,                                                |
|           | Report Status :- In the all locations Noise level is within the limits |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/17/04

## ANALYSIS REPORT OF LIGHT INTENSITY

Test Report No: MSVAL/2023/7767

Report Issued Date: 08.05.2023

- |                                        |                                                                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1. Name of the Project                 | : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)<br>S.No.5, SR No 552B/553B & 592B, Machhe<br>Industrial Estate, Machhe, Belagavi-590014. |
| 2. Sample Collected By                 | : MSV Analytical Laboratories                                                                                                          |
| 3. Particulars of the sample collected | : LUX meter                                                                                                                            |
| 4. Date of Monitoring                  | : 03.05.2023                                                                                                                           |
| 5. Report Date                         | : 08.05.2023                                                                                                                           |
| 6. Method Adopted                      | : Instrument Manual Method                                                                                                             |

| S.No | NAME OF THE LOCATION | PROTOCOLS         | Illumination level<br>(LUX) - Day | RECOMMENDED<br>LUX AS PER<br>IS 6665:1972 | COMMENTS                                      |
|------|----------------------|-------------------|-----------------------------------|-------------------------------------------|-----------------------------------------------|
| 1    | Core shop            | Instrument Manual | 340.0                             | 300                                       | Illumination is more<br>than prescribed limit |
| 2    | Sand Plant           | Instrument Manual | 306.0                             | 300                                       | Illumination is more<br>than prescribed limit |
| 3    | Fettling Area        | Instrument Manual | 448.0                             | 300                                       | Illumination is more<br>than prescribed limit |

Analysed by



Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory

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Page 1 of 2

## ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2023/7768

Report Issued Date: 08.05.2023

1. Name of the Project

M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.

2. Sample Type

Drinking Water- Melting

3. Sample Collected By

MSV Analytical Laboratories

4. Sample Quantity

2 Liters

5. Particulars of Sample Collected

Grab sample

6. Sample Description/Condition

Good/satisfactory

7. Date of Sample Receipt

03.05.2023

8. Analysis Starting date

03.05.2023

9. Analysis Completion Date

06.05.2023

05.05.2023  
06.05.2023

| S.No                | Parameters                                  | Protocol           | Unit | Result    | IS 10500-2018    |                   |
|---------------------|---------------------------------------------|--------------------|------|-----------|------------------|-------------------|
|                     |                                             |                    |      |           | Acceptable limit | Permissible limit |
| Physical Parameters |                                             |                    |      |           |                  |                   |
| 1                   | Odour                                       | IS : 3025(part-5)  | -    | Agreeable | Agreeable        | Agreeable         |
| 2                   | Taste                                       | IS : 3025(part-8)  | -    | Agreeable | Agreeable        | Agreeable         |
| 3                   | pH @25°C                                    | IS : 3025(part-11) | -    | Agreeable | Agreeable        | Agreeable         |
| 4                   | Turbidity, Max                              | IS : 3025(part-10) | NTU  | 6.85      | 6.5 - 8.5        | No Relaxation     |
| 5                   | Total Dissolved Solids, Max                 | IS : 3025(part-16) | mg/L | 0.42      | 1                | 5                 |
| Chemical Parameters |                                             |                    |      |           |                  |                   |
| 6                   | Total Alkalinity as CaCO <sub>3</sub> , Max | IS : 3025(part-23) | mg/L | 65.0      | 500              | 2000              |
| 7                   | Total Hardness as CaCO <sub>3</sub> , Max   | IS : 3025(part-21) | mg/L | 29.2      | 200              | 600               |
| 8                   | Calcium as Ca, Max                          | IS : 3025(part-40) | mg/L | 36.0      | 200              | 600               |
| 9                   | Magnesium as Mg, Max                        | IS : 3025(part-46) | mg/L | 10.5      | 75               | 200               |
| 10                  | Chloride as Cl, Max                         | IS : 3025(part-32) | mg/L | 2.36      | 30               | 100               |
| 11                  | Free Residual Chlorine, Min                 | IS : 3025(part-26) | mg/L | 14.9      | 250              | 1000              |
| 12                  | Sulphate as SO <sub>4</sub> , Max           | IS : 3025(part-24) | mg/L | <1.0      | 0.2              | 1                 |
| 13                  | Nitrate Nitrogen as NO <sub>3</sub> N, Max  | IS : 3025(part-34) | mg/L | 1.20      | 200              | 400               |
| 14                  | Fluoride as F, Max                          | IS : 3025(part-60) | mg/L | <1.0      | 45               | No Relaxation     |
| 15                  | Total Iron as Fe, Max                       | IS : 3025(part-53) | mg/L | 0.32      | 1.0              | 1.5               |
|                     |                                             |                    |      | <0.01     | 0.3              | No Relaxation     |

IS 10500 - 2018 Standards, BDL, B...

### INFERENCE

IS 10500 - 2018 Standards, BDL - Below Detectable Limit

Report Status: - The above measured parameters are within the permissible limits.

Analysed by

*[Signature]*



Authorized Signatory

*[Signature]*  
B.Chinna Lingana Gouda  
Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an asterisk are not accredited by NABL.





# MSV Analytical Laboratories

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C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 9945456764, 08392-255169

Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/W/F/13/03

Page 2 of 2

## ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2023/7769

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Sample Type : Drinking Water- Melting
3. Sample Collected By : MSV Analytical Laboratories
4. Sample Quantity : 300ml
5. Particulars of Sample Collected : Grab sample
6. Sample Description/Condition : Good/satisfactory
7. Date of Sample Receipt : 03.05.2023
8. Analysis Starting date : 03.05.2023
9. Analysis Completion Date : 06.05.2023

## RESULTS

| S.No | Parameters      | Protocol                          | Unit      | Result | Acceptable limit<br>As per 10500 : 2018 |
|------|-----------------|-----------------------------------|-----------|--------|-----------------------------------------|
| 1    | Total Coliforms | IS 1622:1981                      | MPN/100ml | Absent | Shall not be detectable<br>in any 100ml |
| 2    | E.Coli          | IS 1622:1981<br>(Reaffirmed-2009) | MPN/100ml | Absent |                                         |
| 3    | Fecal Coliforms | IS 1622:1981                      | MPN/100ml | Absent | -                                       |

## INFERENCE

IS 10500 - 2018 Standards

Report Status: - The above measured parameters are within the permissible limits.

Analysed by

Authorized Signatory

Mrs. Eswari  
Microbiologist



Note: 1. The results listed only to the tested samples & applicable parameters,  
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# MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986

(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

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Sanganakallu Road, KEB Circle, Ballari - 583103 **Contact No :** Mob : 94498 03895, (0) : 08392-255169,

**E-mail :** msv.lab01@gmail.com, Labmsv@gmail.com, **Website :** www.msvallabellary.com

MSVAL/W/F/13/03

Page 1 of 2

## ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2023/7770

Report Issued Date: 08.05.2023

- Name of the Project** : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
- Sample Type** : Drinking Water- Core Shop
- Sample Collected By** : MSV Analytical Laboratories
- Sample Quantity** : 2 Liters
- Particulars of Sample Collected** : Grab sample
- Sample Description/Condition** : Good/satisfactory
- Date of Sample Receipt** : 03.05.2023
- Analysis Starting date** : 03.05.2023
- Analysis Completion Date** : 06.05.2023

| S.No                | Parameters                                  | Protocol           | Unit | Result    | IS 10500-2018    |                   |
|---------------------|---------------------------------------------|--------------------|------|-----------|------------------|-------------------|
|                     |                                             |                    |      |           | Acceptable limit | Permissible limit |
| Physical Parameters |                                             |                    |      |           |                  |                   |
| 1                   | Odour                                       | IS : 3025(part-5)  | -    | Agreeable | Agreeable        | Agreeable         |
| 2                   | Taste                                       | IS: 3025(part-8)   | -    | Agreeable | Agreeable        | Agreeable         |
| 3                   | pH @25°C                                    | IS : 3025(part-11) | -    | 7.02      | 6.5 - 8.5        | No Relaxation     |
| 4                   | Turbidity, Max                              | IS : 3025(part-10) | NTU  | 0.20      | 1                | 5                 |
| 5                   | Total Dissolved Solids, Max                 | IS : 3025(part-16) | mg/L | 155.0     | 500              | 2000              |
| Chemical Parameters |                                             |                    |      |           |                  |                   |
| 6                   | Total Alkalinity as CaCO <sub>3</sub> , Max | IS : 3025(part-23) | mg/L | 51.8      | 200              | 600               |
| 7                   | Total Hardness as CaCO <sub>3</sub> , Max   | IS : 3025(part-21) | mg/L | 69.2      | 200              | 600               |
| 8                   | Calcium as Ca, Max                          | IS : 3025(part-40) | mg/L | 14.6      | 75               | 200               |
| 9                   | Magnesium as Mg, Max                        | IS : 3025(part-46) | mg/L | 7.90      | 30               | 100               |
| 10                  | Chloride as Cl, Max                         | IS : 3025(part-32) | mg/L | 21.4      | 250              | 1000              |
| 11                  | Free Residual Chlorine, Min                 | IS : 3025(part-26) | mg/L | <1.0      | 0.2              | 1                 |
| 12                  | Sulphate as SO <sub>4</sub> , Max           | IS : 3025(part-24) | mg/L | 4.56      | 200              | 400               |
| 13                  | Nitrate Nitrogen as NO <sub>3</sub> N, Max  | IS : 3025(part-34) | mg/L | <1.0      | 45               | No Relaxation     |
| 14                  | Fluoride as F, Max                          | IS : 3025(part-60) | mg/L | 0.41      | 1.0              | 1.5               |
| 15                  | Total Iron as Fe, Max                       | IS : 3025(part-53) | mg/L | <0.01     | 0.3              | No Relaxation     |

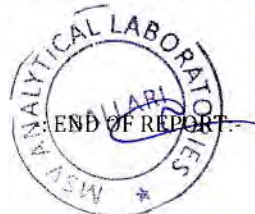
### INFERENCE

IS 10500 - 2018 Standards, BDL - Below Detectable Limit

Report Status: - The above measured parameters are within the permissible limits.

Analysed by

*[Signature]*



Authorized Signatory

*[Signature]*  
B.Chinna Lingana Gouda  
Chief executive of the laboratory

Note : 1. The results listed only to the tested samples & applicable parameters.

2. Water sample will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months from the date of issue of the test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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# MSV Analytical Laboratories

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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalbellary@gmail.com Web ID : www.msvalbellary.com

MSVAL/W/F/13/03

Page 2 of 2

## ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2023/7771

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Sample Type : Drinking Water- Core Shop
3. Sample Collected By : MSV Analytical Laboratories
4. Sample Quantity : 300ml
5. Particulars of Sample Collected : Grab sample
6. Sample Description/Condition : Good/satisfactory
7. Date of Sample Receipt : 03.05.2023
8. Analysis Starting date : 03.05.2023
9. Analysis Completion Date : 06.05.2023

## RESULTS

| S.No | Parameters      | Protocol                          | Unit      | Result | Acceptable limit<br>As per 10500 : 2018 |
|------|-----------------|-----------------------------------|-----------|--------|-----------------------------------------|
| 1    | Total Coliforms | IS 1622:1981                      | MPN/100ml | Absent | Shall not be detectable<br>in any 100ml |
| 2    | E.Coli          | IS 1622:1981<br>(Reaffirmed-2009) | MPN/100ml | Absent |                                         |
| 3    | Fecal Coliforms | IS 1622:1981                      | MPN/100ml | Absent | -                                       |

## INFERENCE

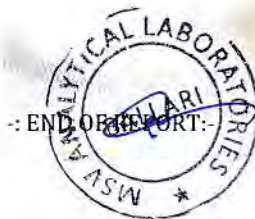
IS 10500 - 2018 Standards

Report Status: - The above measured parameters are within the permissible limits.

Analysed by

Authorized Signatory

Mrs. Eswari  
Microbiologist



END OF REPORT

Note : 1. The results listed only to the tested samples & applicable parameters,  
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/14/03

## ANALYSIS REPORT OF WASTE WATER QUALITY

Test Report No: MSVAL/2023/7772

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe Industrial Estate, Machhe, Belagavi-590014.
2. Sample Type : STP - Treated water (60 KLD)
3. Sample Collected By : MSV Analytical Laboratories
4. Sample Quantity : 1 Liters
5. Particulars of Sample Collected : Grab sample
6. Sample Description/Condition : Good/satisfactory
7. Date of Sample Receipt : 03.05.2023
8. Analysis Starting date : 03.05.2023
9. Analysis Completion Date : 08.05.2023

| S.NO | PARAMETERS                                     | PROTOCOL                                    | UNIT | RESULT | Tolerance Limits<br>As per KSPCB<br>Consent |
|------|------------------------------------------------|---------------------------------------------|------|--------|---------------------------------------------|
| 1    | pH @ 25°C                                      | APHA 23 <sup>rd</sup> Edition-2017, 4500 H+ | -    | 6.42   | 6.5 - 9.0                                   |
| 2    | Bio-chemical Oxygen Demand<br>(3 days at 27°C) | IS-3025:1993(part 44) (RA 2009)             | mg/L | 16.0   | ≤20                                         |
| 3    | Total Suspended solids                         | APHA 23 <sup>rd</sup> Edition-2017, 2540 F  | mg/L | 2.0    | ≤30                                         |
| 4    | Oil & Grease                                   | APHA 23 <sup>rd</sup> Edition-2017, 5520 D  | mg/L | 4.0    | ≤10                                         |

|           |                                                                                   |
|-----------|-----------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Consent Standards, BDL - Below Detectable Limit                      |
|           | Report Status: - The above measured parameters are within the permissible limits. |

Analysed by

Authorized Signatory

B. Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.  
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/14/03

## ANALYSIS REPORT OF WASTE WATER QUALITY

Test Report No: MSVAL/2023/7773

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Sample Type : STP - Treated water (15 KLD)
3. Sample Collected By : MSV Analytical Laboratories
4. Sample Quantity : 1 Liters
5. Particulars of Sample Collected : Grab sample
6. Sample Description/Condition : Good/satisfactory
7. Date of Sample Receipt : 03.05.2023
8. Analysis Starting date : 03.05.2023
9. Analysis Completion Date : 08.05.2023

| S.NO | PARAMETERS                                     | PROTOCOL                                    | UNIT | RESULT | Tolerance Limits<br>As per KSPCB<br>Consent |
|------|------------------------------------------------|---------------------------------------------|------|--------|---------------------------------------------|
| 1    | pH @ 25°C                                      | APHA 23 <sup>rd</sup> Edition-2017, 4500 H+ | -    | 7.13   | 6.5 - 9.0                                   |
| 2    | Bio-chemical Oxygen Demand<br>(3 days at 27°C) | IS-3025:1993(part 44) (RA 2009)             | mg/L | 8.0    | ≤20                                         |
| 3    | Total Suspended solids                         | APHA 23 <sup>rd</sup> Edition-2017, 2540 F  | mg/L | 28.0   | ≤30                                         |
| 4    | Oil & Grease                                   | APHA 23 <sup>rd</sup> Edition-2017, 5520 D  | mg/L | 6.0    | ≤10                                         |

|           |                                                                                   |
|-----------|-----------------------------------------------------------------------------------|
| INFERENCE | As per KSPCB Consent Standards, BDL – Below Detectable Limit                      |
|           | Report Status: - The above measured parameters are within the permissible limits. |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
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**Email :** labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com **Web ID :** www.msvalbellary.com

MSVAL/A/F/14/03

## ANALYSIS REPORT OF WASTE WATER QUALITY

Test Report No: MSVAL/2023/7774

Report Issued Date: 08.05.2023

1. **Name of the Project** : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. **Sample Type** : ETP - Treated water (2 KLD)
3. **Sample Collected By** : MSV Analytical Laboratories
4. **Sample Quantity** : 2 Liters
5. **Particulars of Sample Collected** : Grab sample
6. **Sample Description/Condition** : Good/satisfactory
7. **Date of Sample Receipt** : 03.05.2023
8. **Analysis Starting date** : 03.05.2023
9. **Analysis Completion Date** : 08.05.2023

| S.NO | PARAMETERS                                          | PROTOCOL                                         | UNIT  | RESULT    | Tolerance Limits<br>As per KSPCB<br>Consent |
|------|-----------------------------------------------------|--------------------------------------------------|-------|-----------|---------------------------------------------|
| 1    | Color                                               | IS: 3025 (Part 4) - 1983 (RA:2017)               | Hazen | <5        | Not Specified                               |
| 2    | Odour                                               | IS: 3025 (Part 4) - 1983 (RA:2017)               | -     | Agreeable | Not Specified                               |
| 3    | Electrical Conductivity @ 25°C, Max                 | APHA 23 <sup>rd</sup> Edition-2017, 2510 B       | µs/cm | 842.0     | 2250                                        |
| 4    | pH @ 25°C                                           | APHA 23 <sup>rd</sup> Edition-2017, 4500 H+      | -     | 6.42      | 5.5-9.0                                     |
| 5    | Total Suspended solids, Max                         | APHA 23 <sup>rd</sup> Edition-2017, 2540 F       | mg/L  | 4.0       | 100                                         |
| 6    | Total dissolved solids, Max                         | APHA 23 <sup>rd</sup> Edition-2017, 2540 C       | mg/L  | 526.0     | 2100                                        |
| 7    | Bio-chemical Oxygen Demand<br>(3 days at 27°C), Max | IS-3025:1993(part 44) (RA 2009)                  | mg/L  | 22.0      | 100                                         |
| 8    | Chloride (as Cl), Max                               | APHA 23 <sup>rd</sup> Edition -2017, 4500-Cl-, B | mg/L  | 87.4      | 600                                         |
| 9    | Sulphate (as SO <sub>4</sub> ), Max                 | APHA 23 <sup>rd</sup> Edition -2017, 4500 So4    | mg/L  | 95.5      | 1000                                        |
| 10   | Oil & Grease, Max                                   | APHA 23 <sup>rd</sup> Edition-2017, 5520 D       | mg/L  | <1.0      | 10                                          |
| 11   | Residual Sodium Carbonate, Max                      | LAB SOP                                          | mg/L  | 1.20      | 5.0                                         |
| 12   | Boron as B, Max                                     | APHA 23 <sup>rd</sup> Edition-2017, 4500-B       | mg/L  | 0.30      | 2.0                                         |
| 13   | Hexavalent Chromium as Cr, Max                      | APHA 23 <sup>rd</sup> Edition-2017, 3500-Cr, B   | mg/L  | <0.01     | 0.1                                         |
| 14   | Lead as Pb, Max                                     | APHA 23 <sup>rd</sup> Edition-2017, 3111 B       | mg/L  | <0.01     | 0.1                                         |
| 15   | Copper as Cu, Max                                   | APHA 23 <sup>rd</sup> Edition-2017, 3111 B       | mg/L  | <0.1      | 3.0                                         |
| 16   | Total Chromium, Max                                 | APHA 23 <sup>rd</sup> Edition-2017, 3111 B       | mg/L  | <0.1      | 2.0                                         |

### INFERENCE

As per KSPCB Consent Standards, BDL - Below Detectable Limit

Report Status: - The above measured parameters are within the permissible limits.

Analysed by



Authorized Signatory

B.Chinna Lingana Gouda

Chief executive of the laboratory

Note : 1. The results listed only to the tested samples & applicable parameters,

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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/14/03

## ANALYSIS REPORT OF FOOD QUALITY

Test Report No: MSVAL/2023/7775

Report Issued Date: 08.05.2023

1. Name of the Project : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. Sample Type : Rice
3. Sample Collected By : MSV Analytical Laboratories
4. Sample description /condition : Good/Satisfactory
5. Date of Sample Receipt : 03.05.2023
6. Analysis Starting Date : 03.05.2023
7. Analysis Completion Date : 08.05.2023

## RESULTS

| S. No | PARAMETERS        | Microbiological Quality |        |                           |                                                                                         |
|-------|-------------------|-------------------------|--------|---------------------------|-----------------------------------------------------------------------------------------|
|       |                   | UNITS                   | RESULT | PHLS limits/Specification | TEST METHOD                                                                             |
| 1     | Total Coliforms   | CFU/g                   | Absent | Absent                    | Food and Drug Administration/<br>Bacteriological Analytical Manual 2002,<br>Chapter -4  |
| 2     | Yeast & mold      | CFU/g                   | Absent | Absent                    | Food and Drug Administration/<br>Bacteriological Analytical Manual 2001,<br>Chapter -18 |
| 3     | Total Plate Count | CFU/g                   | 6      | 100                       | Food and Drug Administration/<br>Bacteriological Analytical Manual 2001,<br>Chapter -3  |
| 4     | Escherichia coli  | CFU/g                   | Absent | Absent                    | Food and Drug Administration/<br>Bacteriological Analytical Manual 2002,<br>Chapter -4  |

PHLS: Public Health Laboratory Services, Revised edition 1996, United Kingdom

|           |                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------|
| INFERENCE | As per PHLS Limits,<br>Report Status: - The analyzed values for above measured parameters are within the limits. |
|-----------|------------------------------------------------------------------------------------------------------------------|

Analysed by

Authorized Signatory

Mrs. Eswari  
Microbiologist



Note: 1. The results listed only to the tested samples & applicable parameters,  
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# MSV Analytical Laboratories

(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 **Contact No** : Mob : 94498 03895, (O) : 9945456764, 08392-255169

**Email** : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com **Web ID** : www.msvalbellary.com

MSVAL/A/F/14/03

## ANALYSIS REPORT OF FOOD QUALITY

Test Report No: MSVAL/2023/7776

Report Issued Date: 08.05.2023

- |                                  |                                                                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1. Name of the Project           | : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)<br>S.No.5, SR No 552B/553B & 592B, Machhe<br>Industrial Estate, Machhe, Belagavi-590014. |
| 2. Sample Type                   | : Sambar                                                                                                                               |
| 3. Sample Collected By           | : MSV Analytical Laboratories                                                                                                          |
| 4. Sample description /condition | : Good/Satisfactory                                                                                                                    |
| 5. Date of Sample Receipt        | : 03.05.2023                                                                                                                           |
| 6. Analysis Starting Date        | : 03.05.2023                                                                                                                           |
| 7. Analysis Completion Date      | : 08.05.2023                                                                                                                           |

## RESULTS

| S. No | PARAMETERS        | Microbiological Quality |        |                           |                                                                                         |
|-------|-------------------|-------------------------|--------|---------------------------|-----------------------------------------------------------------------------------------|
|       |                   | UNITS                   | RESULT | PHLS limits/Specification | TEST METHOD                                                                             |
| 1     | Total Coliforms   | CFU/g                   | Absent | Absent                    | Food and Drug Administration/<br>Bacteriological Analytical Manual 2002,<br>Chapter -4  |
| 2     | Yeast & mold      | CFU/g                   | Absent | Absent                    | Food and Drug Administration/<br>Bacteriological Analytical Manual 2001,<br>Chapter -18 |
| 3     | Total Plate Count | CFU/g                   | 30     | 100                       | Food and Drug Administration/<br>Bacteriological Analytical Manual 2001,<br>Chapter -3  |
| 4     | Escherichia coli  | CFU/g                   | Absent | Absent                    | Food and Drug Administration/<br>Bacteriological Analytical Manual 2002,<br>Chapter -4  |

PHLS: Public Health Laboratory Services, Revised edition 1996, United Kingdom

|           |                                                                                           |
|-----------|-------------------------------------------------------------------------------------------|
| INFERENCE | As per PHLS Limits,                                                                       |
|           | Report Status: - The analyzed values for above measured parameters are within the limits. |

Analysed by

*[Signature]*

Authorized Signatory

*[Signature]*

Mrs. Eswari  
Microbiologist



Note: 1. The results listed only to the tested samples & applicable parameters,

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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Sanganakallu Road, KEB Circle, Ballari - 583103 **Contact No :** Mob : 94498 03895, (O) : 9945456764, 08392-255169

**Email :** labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com **Web ID :** www.msvalbellary.com

MSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/7837

Report Issued Date: 08.05.2023

- Name of the Project** : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
- Name of the location** : Near KEB
- Sample Collected By** : MSV Analytical Laboratories
- Particulars of the sample** : Sample collected with FDS GTI-131& RDS APM-460
- Date of Sample Receipt** : 04.05.2023
- Analysis Starting Date** : 05.05.2023
- Analysis Completion Date** : 06.05.2023

| S. No | Parameter                                | Protocols                                | Units             | Duration of Monitoring | Results | NAAQ STANDARDS |
|-------|------------------------------------------|------------------------------------------|-------------------|------------------------|---------|----------------|
| 1     | Particulate Matter PM <sub>10</sub>      | IS-5182(Part-23) - 2006                  | µg/m <sup>3</sup> | 24 hrs                 | 75.09   | 100            |
| 2     | Particulate Matter PM <sub>2.5</sub>     | IS-5182(Part-24) - 2019                  | µg/m <sup>3</sup> | 24 hrs                 | 30.15   | 60             |
| 3     | Sulphur Dioxide as SO <sub>x</sub>       | IS-5182(Part-2) - 2001                   | µg/m <sup>3</sup> | 24 hrs                 | 6.31    | 80             |
| 4     | Oxides of Nitrogen as NO <sub>x</sub>    | IS-5182(Part-6) - 2006                   | µg/m <sup>3</sup> | 24 hrs                 | 11.45   | 80             |
| 5     | Ozone as O <sub>3</sub>                  | IS 5182(part-9)1974                      | µg/m <sup>3</sup> | 1 hrs                  | <0.01   | 180            |
| 6     | Lead                                     | IS-5182(Part22) - 2004                   | µg/m <sup>3</sup> | 24 hrs                 | <0.01   | 1              |
| 7     | Carbon Monoxide as CO                    | LAB SOP: MSVAL/SOP/A/07,<br>Dt: 2.7.2012 | mg/m <sup>3</sup> | -                      | 1.14    | 4              |
| 8     | Ammonia as NH <sub>3</sub>               | LAB SOP: MSVAL/SOP/A/06,<br>Dt: 2.7.2012 | µg/m <sup>3</sup> | 24 hrs                 | 2.91    | 400            |
| 9     | Benzene as C <sub>6</sub> H <sub>6</sub> | IS:5182(part 11) - 2006                  | µg/m <sup>3</sup> | 8 hrs                  | <0.01   | 5              |
| 10    | Benzo (α) Pyrene (BaP)                   | CPCB Procedure                           | ng/m <sup>3</sup> | 8 hrs                  | <0.01   | 1              |
| 11    | Arsenic as As                            | CPCB Procedure                           | ng/m <sup>3</sup> | 8 hrs                  | <0.01   | 6              |
| 12    | Nickel as Ni                             | LAB SOP: MSVAL/SOP/A/08,<br>Dt: 2.7.2012 | ng/m <sup>3</sup> | 8 hrs                  | <0.01   | 20             |

### INFERENCE

As per NAAQS Standards

Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified, ILC sample will be destroyed after 1 month from the date of test certificate issue.

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 9945456764, 08392-255169

Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com Web ID : www.msvalbellary.com

MSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/7838

Report Issued Date: 08.05.2023

- Name of the Project** : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
- Name of the location** : Near FDPL
- Sample Collected By** : MSV Analytical Laboratories
- Particulars of the sample** : Sample collected with FDS GTI-131& RDS APM-460
- Date of Sample Receipt** : 04.05.2023
- Analysis Starting Date** : 05.05.2023
- Analysis Completion Date** : 06.05.2023

| S. No | Parameter                                | Protocols                                | Units             | Duration of Monitoring | Results | NAAQ STANDARDS |
|-------|------------------------------------------|------------------------------------------|-------------------|------------------------|---------|----------------|
| 1     | Particulate Matter PM <sub>10</sub>      | IS-5182(Part-23) - 2006                  | µg/m <sup>3</sup> | 24 hrs                 | 59.22   | 100            |
| 2     | Particulate Matter PM <sub>2.5</sub>     | IS-5182(Part-24) - 2019                  | µg/m <sup>3</sup> | 24 hrs                 | 21.05   | 60             |
| 3     | Sulphur Dioxide as SO <sub>x</sub>       | IS-5182(Part-2) - 2001                   | µg/m <sup>3</sup> | 24 hrs                 | 5.39    | 80             |
| 4     | Oxides of Nitrogen as NO <sub>x</sub>    | IS-5182(Part-6) - 2006                   | µg/m <sup>3</sup> | 24 hrs                 | 10.41   | 80             |
| 5     | Ozone as O <sub>3</sub>                  | IS 5182(part-9)1974                      | µg/m <sup>3</sup> | 1 hrs                  | <0.01   | 180            |
| 6     | Lead                                     | IS-5182(Part22) - 2004                   | µg/m <sup>3</sup> | 24 hrs                 | <0.01   | 1              |
| 7     | Carbon Monoxide as CO                    | LAB SOP: MSVAL/SOP/A/07,<br>Dt: 2.7.2012 | mg/m <sup>3</sup> | -                      | 0.52    | 4              |
| 8     | Ammonia as NH <sub>3</sub>               | LAB SOP: MSVAL/SOP/A/06,<br>Dt: 2.7.2012 | µg/m <sup>3</sup> | 24 hrs                 | 1.68    | 400            |
| 9     | Benzene as C <sub>6</sub> H <sub>6</sub> | IS:5182(part 11) - 2006                  | µg/m <sup>3</sup> | 8 hrs                  | <0.01   | 5              |
| 10    | Benzo (α) Pyrene (BaP)                   | CPCB Procedure                           | ng/m <sup>3</sup> | 8 hrs                  | <0.01   | 1              |
| 11    | Arsenic as As                            | CPCB Procedure                           | ng/m <sup>3</sup> | 8 hrs                  | <0.01   | 6              |
| 12    | Nickel as Ni                             | LAB SOP: MSVAL/SOP/A/08,<br>Dt: 2.7.2012 | ng/m <sup>3</sup> | 8 hrs                  | <0.01   | 20             |

|           |                                                                                         |
|-----------|-----------------------------------------------------------------------------------------|
| INFERENCE | As per NAAQS Standards                                                                  |
|           | Report Status :- The analyzed values for above measured parameter are within the limits |

Analysed by

Authorized Signatory

B.Chinda Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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Sanganakallu Road, KEB Circle, Ballari - 583103 **Contact No :** Mob : 94498 03895, (O) : 9945456764, 08392-255169

**Email :** labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com **Web ID :** www.msvalbellary.com

MSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/7839

Report Issued Date: 08.05.2023

- |                              |                                                                                                                                        |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1. Name of the Project       | : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)<br>S.No.5, SR No 552B/553B & 592B, Machhe<br>Industrial Estate, Machhe, Belagavi-590014. |
| 2. Name of the location      | : Near Cylinder Factory                                                                                                                |
| 3. Sample Collected By       | : MSV Analytical Laboratories                                                                                                          |
| 4. Particulars of the sample | : Sample collected with FDS GTI-131& RDS APM-460                                                                                       |
| 5. Date of Sample Receipt    | : 04.05.2023                                                                                                                           |
| 6. Analysis Starting Date    | : 05.05.2023                                                                                                                           |
| 7. Analysis Completion Date  | : 06.05.2023                                                                                                                           |

| S. No | Parameter                                | Protocols                                | Units             | Duration of Monitoring | Results | NAAQ STANDARDS |
|-------|------------------------------------------|------------------------------------------|-------------------|------------------------|---------|----------------|
| 1     | Particulate Matter PM <sub>10</sub>      | IS-5182(Part-23) - 2006                  | µg/m <sup>3</sup> | 24 hrs                 | 86.91   | 100            |
| 2     | Particulate Matter PM <sub>2.5</sub>     | IS-5182(Part-24) - 2019                  | µg/m <sup>3</sup> | 24 hrs                 | 37.46   | 60             |
| 3     | Sulphur Dioxide as SO <sub>x</sub>       | IS-5182(Part-2) - 2001                   | µg/m <sup>3</sup> | 24 hrs                 | 7.15    | 80             |
| 4     | Oxides of Nitrogen as NO <sub>x</sub>    | IS-5182(Part-6) - 2006                   | µg/m <sup>3</sup> | 24 hrs                 | 12.28   | 80             |
| 5     | Ozone as O <sub>3</sub>                  | IS 5182(part-9)1974                      | µg/m <sup>3</sup> | 1 hrs                  | <0.01   | 180            |
| 6     | Lead                                     | IS-5182(Part22) - 2004                   | µg/m <sup>3</sup> | 24 hrs                 | <0.01   | 1              |
| 7     | Carbon Monoxide as CO                    | LAB SOP: MSVAL/SOP/A/07,<br>Dt: 2.7.2012 | mg/m <sup>3</sup> | -                      | 0.92    | 4              |
| 8     | Ammonia as NH <sub>3</sub>               | LAB SOP: MSVAL/SOP/A/06,<br>Dt: 2.7.2012 | µg/m <sup>3</sup> | 24 hrs                 | 3.75    | 400            |
| 9     | Benzene as C <sub>6</sub> H <sub>6</sub> | IS:5182(part 11) - 2006                  | µg/m <sup>3</sup> | 8 hrs                  | <0.01   | 5              |
| 10    | Benzo (α) Pyrene (BaP)                   | CPCB Procedure                           | ng/m <sup>3</sup> | 8 hrs                  | <0.01   | 1              |
| 11    | Arsenic as As                            | CPCB Procedure                           | ng/m <sup>3</sup> | 8 hrs                  | <0.01   | 6              |
| 12    | Nickel as Ni                             | LAB SOP: MSVAL/SOP/A/08,<br>Dt: 2.7.2012 | ng/m <sup>3</sup> | 8 hrs                  | <0.01   | 20             |

|           |                                                                                         |
|-----------|-----------------------------------------------------------------------------------------|
| INFERENCE | As per NAAQS Standards                                                                  |
|           | Report Status :- The analyzed values for above measured parameter are within the limits |

Analysed by

*[Signature]*

Authorized Signatory

*[Signature]*

**B.Chinna Lingana Gouda**  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters,

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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**Email :** labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com **Web ID :** www.msvalbellary.com

MSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

**Test Report No: MSVAL/2023/7840**

**Report Issued Date: 08.05.2023**

- Name of the Project** : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
- Name of the location** : Near Core Shop
- Sample Collected By** : MSV Analytical Laboratories
- Particulars of the sample** : Sample collected with FDS GTI-131& RDS APM-460
- Date of Sample Receipt** : 04.05.2023
- Analysis Starting Date** : 05.05.2023
- Analysis Completion Date** : 06.05.2023

| S. No | Parameter                                | Protocols                                | Units             | Duration of Monitoring | Results | NAAQ STANDARDS |
|-------|------------------------------------------|------------------------------------------|-------------------|------------------------|---------|----------------|
| 1     | Particulate Matter PM <sub>10</sub>      | IS-5182(Part-23) - 2006                  | µg/m <sup>3</sup> | 24 hrs                 | 95.13   | 100            |
| 2     | Particulate Matter PM <sub>2.5</sub>     | IS-5182(Part-24) - 2019                  | µg/m <sup>3</sup> | 24 hrs                 | 51.76   | 60             |
| 3     | Sulphur Dioxide as SO <sub>x</sub>       | IS-5182(Part-2) - 2001                   | µg/m <sup>3</sup> | 24 hrs                 | 6.81    | 80             |
| 4     | Oxides of Nitrogen as NO <sub>x</sub>    | IS-5182(Part-6) - 2006                   | µg/m <sup>3</sup> | 24 hrs                 | 12.32   | 80             |
| 5     | Ozone as O <sub>3</sub>                  | IS 5182(part-9)1974                      | µg/m <sup>3</sup> | 1 hrs                  | <0.01   | 180            |
| 6     | Lead                                     | IS-5182(Part22) - 2004                   | µg/m <sup>3</sup> | 24 hrs                 | <0.01   | 1              |
| 7     | Carbon Monoxide as CO                    | LAB SOP: MSVAL/SOP/A/07,<br>Dt: 2.7.2012 | mg/m <sup>3</sup> | -                      | 1.29    | 4              |
| 8     | Ammonia as NH <sub>3</sub>               | LAB SOP: MSVAL/SOP/A/06,<br>Dt: 2.7.2012 | µg/m <sup>3</sup> | 24 hrs                 | 4.02    | 400            |
| 9     | Benzene as C <sub>6</sub> H <sub>6</sub> | IS:5182(part 11) - 2006                  | µg/m <sup>3</sup> | 8 hrs                  | <0.01   | 5              |
| 10    | Benzo (α) Pyrene (BaP)                   | CPCB Procedure                           | ng/m <sup>3</sup> | 8 hrs                  | <0.01   | 1              |
| 11    | Arsenic as As                            | CPCB Procedure                           | ng/m <sup>3</sup> | 8 hrs                  | <0.01   | 6              |
| 12    | Nickel as Ni                             | LAB SOP: MSVAL/SOP/A/08,<br>Dt: 2.7.2012 | ng/m <sup>3</sup> | 8 hrs                  | <0.01   | 20             |

### INFERENCE

As per NAAQS Standards

**Report Status :- The analyzed values for above measured parameter are within the limits**

Analysed by

Authorized Signatory

**B.Chinna Lingana Gouda**  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters,

2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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**Email :** labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com **Web ID :** www.msvalbellary.com

MSVAL/A/F/16/03

## ANALYSIS REPORT OF FUGITIVE EMISSION

**Test Report No: MSVAL/2023/7777**

**Report Issued Date: 08.05.2023**

1. **Name of the Project** : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. **Name of the location** : Fettling Compressor
3. **Sample Collected By** : MSV Analytical Laboratories
4. **Particulars of the sample Collected** : High Volume Sampler
5. **Date of Sample Receipt** : 03.05.2023
6. **Analysis Starting Date** : 04.05.2023
7. **Analysis Completion Date** : 06.05.2023

| S. No | Parameter                             | Protocols              | Units             | Duration of Monitoring | Results |
|-------|---------------------------------------|------------------------|-------------------|------------------------|---------|
| 1     | Suspended Particulate Matter          | INSTRUMENT METHOD      | mg/m <sup>3</sup> | 8 hrs                  | 318.2   |
| 2     | Sulphur Dioxide as SO <sub>x</sub>    | IS-5182(Part-2) - 2001 | µg/m <sup>3</sup> | 8 hrs                  | 7.85    |
| 3     | Oxides of Nitrogen as NO <sub>x</sub> | IS-5182(Part-6) - 2006 | µg/m <sup>3</sup> | 8 hrs                  | 13.01   |

**Analysed by**

**Authorized Signatory**

**B.Chintha Lingana Gouda**  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,

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**Email** : labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com **Web ID** : www.msvalbellary.com

MSVAL/A/F/16/03

## ANALYSIS REPORT OF FUGITIVE EMISSION

**Test Report No: MSVAL/2023/7778**

**Report Issued Date: 08.05.2023**

1. **Name of the Project** : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. **Name of the location** : Core Shop Drinking Water
3. **Sample Collected By** : MSV Analytical Laboratories
4. **Particulars of the sample Collected** : High Volume Sampler
5. **Date of Sample Receipt** : 03.05.2023
6. **Analysis Starting Date** : 04.05.2023
7. **Analysis Completion Date** : 06.05.2023

| S. No | Parameter                             | Protocols              | Units             | Duration of Monitoring | Results |
|-------|---------------------------------------|------------------------|-------------------|------------------------|---------|
| 1     | Suspended Particulate Matter          | INSTRUMENT METHOD      | mg/m <sup>3</sup> | 8 hrs                  | 274.8   |
| 2     | Sulphur Dioxide as SO <sub>x</sub>    | IS-5182(Part-2) - 2001 | µg/m <sup>3</sup> | 8 hrs                  | 6.12    |
| 3     | Oxides of Nitrogen as NO <sub>x</sub> | IS-5182(Part-6) - 2006 | µg/m <sup>3</sup> | 8 hrs                  | 12.66   |

**Analysed by**

**Authorized Signatory**

**B.Chinna Lingana Gouda**  
**Chief executive of the laboratory**



Note: 1. The results listed only to the tested samples & applicable parameters.

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.





# MSV Analytical Laboratories

(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 **Contact No** : Mob : 94498 03895, (O) : 9945456764, 08392-255169

**Email** : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalab01@gmail.com **Web ID** : www.msvalbellary.com

MSVAL/A/F/16/03

## ANALYSIS REPORT OF FUGITIVE EMISSION

Test Report No: MSVAL/2023/7779

Report Issued Date: 08.05.2023

- Name of the Project** : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
- Name of the location** : Decoring
- Sample Collected By** : MSV Analytical Laboratories
- Particulars of the sample Collected** : High Volume Sampler
- Date of Sample Receipt** : 03.05.2023
- Analysis Starting Date** : 04.05.2023
- Analysis Completion Date** : 06.05.2023

| S. No | Parameter                             | Protocols              | Units             | Duration of Monitoring | Results |
|-------|---------------------------------------|------------------------|-------------------|------------------------|---------|
| 1     | Suspended Particulate Matter          | INSTRUMENT METHOD      | mg/m <sup>3</sup> | 8 hrs                  | 470.9   |
| 2     | Sulphur Dioxide as SO <sub>x</sub>    | IS-5182(Part-2) - 2001 | µg/m <sup>3</sup> | 8 hrs                  | 8.02    |
| 3     | Oxides of Nitrogen as NO <sub>x</sub> | IS-5182(Part-6) - 2006 | µg/m <sup>3</sup> | 8 hrs                  | 12.98   |

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



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MSVAL/A/F/16/03

## ANALYSIS REPORT OF FUGITIVE EMISSION

**Test Report No:** MSVAL/2023/7780

**Report Issued Date:** 08.05.2023

1. **Name of the Project** : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. **Name of the location** : Near Fetting Near Nozel Blast Machine
3. **Sample Collected By** : MSV Analytical Laboratories
4. **Particulars of the sample Collected** : High Volume Sampler
5. **Date of Sample Receipt** : 03.05.2023
6. **Analysis Starting Date** : 04.05.2023
7. **Analysis Completion Date** : 06.05.2023

| S. No | Parameter                             | Protocols              | Units             | Duration of Monitoring | Results |
|-------|---------------------------------------|------------------------|-------------------|------------------------|---------|
| 1     | Suspended Particulate Matter          | INSTRUMENT METHOD      | mg/m <sup>3</sup> | 8 hrs                  | 117.2   |
| 2     | Sulphur Dioxide as SO <sub>x</sub>    | IS-5182(Part-2) - 2001 | µg/m <sup>3</sup> | 8 hrs                  | 5.71    |
| 3     | Oxides of Nitrogen as NO <sub>x</sub> | IS-5182(Part-6) - 2006 | µg/m <sup>3</sup> | 8 hrs                  | 11.09   |

**Analysed by**

**Authorized Signatory**

**B.Chinna Lingana Gouda**  
Chief executive of the laboratory



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MSVAL/A/F/16/03

## ANALYSIS REPORT OF FUGITIVE EMISSION

**Test Report No: MSVAL/2023/7781**

**Report Issued Date: 08.05.2023**

1. **Name of the Project** : M/s. Ashok Iron Works Pvt Ltd., (Plant-III)  
S.No.5, SR No 552B/553B & 592B, Machhe  
Industrial Estate, Machhe, Belagavi-590014.
2. **Name of the location** : Induction Furnace
3. **Sample Collected By** : MSV Analytical Laboratories
4. **Particulars of the sample Collected** : High Volume Sampler
5. **Date of Sample Receipt** : 03.05.2023
6. **Analysis Starting Date** : 04.05.2023
7. **Analysis Completion Date** : 06.05.2023

| S. No | Parameter                             | Protocols              | Units             | Duration of Monitoring | Results |
|-------|---------------------------------------|------------------------|-------------------|------------------------|---------|
| 1     | Suspended Particulate Matter          | INSTRUMENT METHOD      | mg/m <sup>3</sup> | 8 hrs                  | 201.6   |
| 2     | Sulphur Dioxide as SO <sub>x</sub>    | IS-5182(Part-2) - 2001 | µg/m <sup>3</sup> | 8 hrs                  | 5.98    |
| 3     | Oxides of Nitrogen as NO <sub>x</sub> | IS-5182(Part-6) - 2006 | µg/m <sup>3</sup> | 8 hrs                  | 13.11   |

**Analysed by**

**Authorized Signatory**

**B.Chinna Lingana Gouda**  
Chief executive of the laboratory



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