



JAILAXMI CASTING & ALLOYS PVT. LTD.

An IATF 16949:2016, ISO - 9001-2015 Certified Company

Regd. Office/Factory : Gut No. 75, Village Pharola, Tq. Paithan, Dist. Aurangabad, 431 107, (Maharashtra) India.

Tel. No.: + 91 2431 251236 Fax No.: +91 2431 251212

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CIN No.: U27100MH2004PTC148067

Date :- June 30th 2023

To,
The Director,
Deputy General Director of Forest (Central),
West Central Zone,
Regional Office, New Secretariate Building,
Opp. VCA Ground,
Civil Lines, Nagpur – 440001

Subject : Submission of six monthly compliance report for June – 23

Respected sir,

Please find enclosed herewith six-monthly compliance report on its comprehensive form for the period June - 23.

We trust you will find it in order.

Thanking you,

Yours faithfully,

For Jailaxmi Casting and Alloys Pvt Ltd;

A handwritten signature in blue ink, appearing to be 'GMS', is written over a horizontal line.

Authorized Signatory

DATA SHEET

1.	Project type: River - valley/ Mining / Industry / Thermal / Nuclear / Other (specify)	:	Industrial project (Metallurgical)
2.	Name of the project	:	M/s Jailaxmi Casting and Alloys Pvt Ltd;
3.	Clearance letter (s) / OM No. and Date	:	F. No. J-11011/131/2017-IA.II(I) 05/05/2020
4.	Location	:	Gut No. 74 & 75 Pharola & Gut No. 53, Mharola, Tq. Paithan, Dist: Aurangabad
	a.	District (S)	: Aurangabad
	b.	State (s)	: Maharashtra
	c.	Latitude/ Longitude	: 19°44'1.89"N & 75°17'34.92"E
5.	Address for correspondence		
	a.	Address of Concerned Project Chief Engineer (with pin code & Telephone / telex / fax numbers	: Gut No. 74 & 75, Pharola & Gut No. 53, Mharola, Tq. Paithan, Dist: Aurangabad – 431 107. Phone: 02431 251236
6.	Salient features		
	a.	of the project	: Metallurgical industry With induction furnace, continuous casting and Rolled products.
	b.	of the environmental management plans	: EMP prepared and all environmental facts are covered.
7.	Break-up of the project area	:	
	a.	submergence area forest & non-forest	: Nil
	b.	Others	:

	A	Total Plot Area	:	45,000 SQM for project and 43,200 SQM for development of green belt.
	B	Built up area including Road	:	20,676.94 SQM
	C	Open Space available	:	15,916.4 SQM
	D	Green belt	:	43,200 SQM
8.		Breakup of the project affected Population with enumeration of Those losing houses / dwelling units Only agricultural land only, both Dwelling units & agricultural Land & landless labourers/artisan	:	Land already in possession.
	a.	SC, ST/Adivasis	:	--
	b.	Others (Please indicate whether these Figures are based on any scientific and systematic survey carried out Or only provisional figures, if a Survey is carried out give details And years of survey)	:	Land is procured in 2002.
9.		Financial details	:	
	a.		:	
	1.	Total Cost of the Project	:	Rs. 73.72 Crores
	b.	Allocation made for environmental management plans with item wise and year wise Break-up.	:	EMP allocation break-up is enclosed as annexure i.
	c.	Benefit cost ratio / Internal rate of Return and the year of assessment	:	

	d.	Whether (c) includes the cost of environmental management as shown in the above.	:	
	e.	Actual expenditure incurred on the project so far	:	
	f.	Actual expenditure incurred on the environmental management plans so far	:	Enclosed
10.	Forest land requirement		:	NA
	a.	The status of approval for diversion of forest land for non-forestry use	:	
	b.	The status of clearing felling	:	
	c.	The status of compensatory afforestation, it any	:	--
	d.	Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	:	--
11.	The status of clear felling in Non-forest areas (such as submergence area of reservoir, approach roads), it any with quantitative information		:	NA
12.	Status of construction		:	
	a.	Date of commencement (Actual and/or planned)	:	Aug 2004 for expansion June 2021.
	b.	Date of completion (Actual and/or planned)	:	Oct 2005 as per accorded ECexpansion work completed in May 2022.
13.	Reasons for the delay if the Project is yet to start		:	Production already started

14	Dates of site visits		:	
	a.	The dates on which the project was monitored by the Regional Office on previous Occasions, if any	:	(i) No
	b.	Date of site visit for this monitoring report	:	There were regular routine visits from MPCB office and Factory inspectorate.
15.	<p>Details of correspondence with Project authorities for obtaining Action plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits)</p> <p>(The first monitoring report may contain the details of all the Letters issued so far, but the Later reports may cover only the Letters issued subsequently.)</p>		:	Whatever information was asked by MPCB is properly attended.

Compliance Report for the Environmental Clearance
conditions vide F. No. J-11011/131/2017-IA. II(I)
Dated 05/05/2020

M/s Jailaxmi Casting and Alloys Pvt Ltd;

Gut No. 74 & 75, Village-Pharola & Gut No. 53,
Village-Mharola, Tq. Paithan, Dist: Aurangabad – 431 107

#	ECcon #	Regarding	Remark
1	1-25	Introduction and project description	
2	26	Proposed project will meet water requirement from the lake owned by the project proponent and other farm lakes in the local area with the approval of local authority.	We have provided own farm lake in gut no 53, village – Mharola, Tq. Paithan, Dist: Aurangabad and this farm lake water and surrounding local farmers farm lake is used to meet our requirement
3	27	The project proponents have acquired an additional area of 4.32 ha for green belt near the existing plant location	Yes, land is acquired and green belt is developed and maintained
4	28	In view of the forgoing and derailed deliberation, the committee recommended the project for grant of Environmental Clearance under the provision of EIA Notification 2006, subject to the following specific conditions in addition to the applicable general conditions as per the ministry's Office Memorandum No. 22-34/2018 III dated 09/08/2018 for steel plant operating with induction furnace.	Agreed and accepted.
5	28(i)	CER shall be completed within three years	Agreed, started CER work, details enclosed

			as annexure ii.
6	28(ii)	Reheating is permitted with only HSD	Noted and converted our existing facility with low Sulphur contain fuel of CBFS (Carbon Black feed Stock).
7	28(iii)	Forth hole extraction shall be provided in the furnace to control secondary emission	This is applicable to Arc Furnace yet Arc furnace has to be installed. For induction furnace we have provided additional suction hoods.
8	28(iv)	100% waste utilization should be ensured	Waste is only steel slag, which is collected separately and used as substitute for road and building construction material after separating metal particles.
9	28(v)	No ground water abstraction is permitted	Agreed
10	28(vi)	Water stored in the reservoir shall be used	Agreed
11	28(vii)	Particulate emission from the stack shall be less than 30mg/Nm ³ with bag house APCD	Agreed
12	28 (viii)	Green belt development shall be completed in the time frame of three year	Agreed
29		I. STATUTORY COMPLIANCE	

13	(i)	The project proponent shall obtain consent to establish / operate under the provision of Air (Prevention and Control of Pollution) Act, 1981 and the Water (prevention and Control of Pollution) Act, 1974 from concern state pollution control board.	Agreed and obtained consent to operate from Maharashtra Pollution Control Board vide consent no Format1.0/CC/Uan No. 0000136043/ CO-2305001664 dated 22/05/2023 valid upto 30/06/2024.
14	(ii)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water required for the project.	Agreed, we use farm lake water hence we do not require any permission.
15	(iii)	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rule, 2016 as amended time to time	Agreed
II. AIR QUALITY MONITORING AND PREVENTION			
16	(i)	The project proponent shall install 24*7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standard prescribed in Environmental (Protection) Rule, 1986 vide GSR 277 (E), dated 31 st March, 2012 as amended from time to time; SO 3305 (E) dated 7 th December 2015 as amended from time to time and connected to SPCB and CPCB online server and calibrate this system from time to time according to equipment supplier specifications through labs recognize under Environment (Protection) Act, 1986 or NABL accredited laboratory.	We have procured the online monitoring system, installed and connected.

17	(ii)	The project proponent shall monitor fugitive emission in the plant premises at least once in every quarter through laboratories recognize under Environment (Protection) Act, 1986 or NABL accredited laboratory	Agreed, monitoring done. Monitoring reports enclosed as annexure iii.
18	(iii)	The project proponent shall install system carryout continuous ambient air quality monitoring for common/ criterial parameters relevant to the main pollutant released (e.g. PM ₁₀ , PM _{2.5} in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x emissions) within and outside the plant area (at least at four locations on within and three outside the plat area at an angle of 120 ⁰ each	Agreed, monitoring done. Monitoring reports enclosed as annexure iii.
19	(iv)	The project proponent shall submit monthly summery report of continuous stack emission and air quality monitoring and result of manual stack monitoring and manual monitoring of air quality/ fugitive emission to Regional Office, of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six monthly monitoring report	Agreed
20	(v)	Appropriate air pollution control system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources	Dust collector provided for furnace. There is no other source of dust generation.
21	(vi)	The project proponent shall provide leakage detection and mechanical bag cleaning facility for better maintenance of bag	Agreed, Leak detection instrument provided at site. We have standby facility

			for proper maintenances.
22	(vii)	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly	Mechanical Sweeping machine is attached to the tractor for cleaning of premises & roads and Proper housekeeping is done, 12 persons are employed in three shifts.
23	(viii)	Recycle and reuse of iron ore fines, coal and coke fines and other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting /agglomeration	No ore fines, coal and coke fines used in the process.
24	(ix)	The project proponent shall use leak proof trucks/dumper carrying coal and other raw materials and cover them with tarpaulin	Raw material is received in covered/closed trucks/containers.
25	(x)	The project proponent shall provide covered shade for raw material like scrap, sponge iron, lump ore, coal, coke, etc	Agreed, provided covered storage for scrap and sponge.
26	(xi)	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces	Provided primary extraction system along with dust collectors and bag house, for secondary fume extraction system, we have initiated alternate process for controlling fugitive emission, which contain secondary top hood

			along with side telescopic swiveling hood.
27	(xii)	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, oil cellars	Agreed
III. WATER QUALITY MONITORING AND PRESERVATION			
28	(i)	The project proponent shall install 24*7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standard prescribed in Environmental (Protection) Rule, 1986 vide GSR 277 (E), dated 31 st March, 2012 as amended from time to time; SO 3305 (E) dated 7 th December 2015 as amended from time to time and connected to SPCB and CPCB online server and calibrate this system from time to time according to equipment supplier specifications through labs recognize under Environment (Protection) Act, 1986 or NABL accredited laboratory.	We have procured the online monitoring system installed and connected.
29	(ii)	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient number of sample wells in the plant and adjacent areas through laboratories recognize under Environment (Protection) Act, 1986 or NABL accredited laboratory	Monitoring done; reports enclosed as annexure iii.
30	(iii)	The project proponent shall submit monthly summery report of continuous stack emission and air quality monitoring and result of manual stack monitoring and manual monitoring of air	Agreed and accepted.

		quality/ fugitive emission to Regional Office, of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six monthly monitoring report	
31	(iv)	Adhere to "zero liquid discharge"	Agreed and accepted.
32	(v)	Sewage treatment plant shall be provided for treatment of domestic wastewater to meet the prescribed standard	Provided sewage treatment plant consist of collection, aeration, settling, disinfection and filtration. Deputed dedicated operators and treated effluent is used for gardening purpose.
33	(vi)	The project proponent shall provide ETP for effluent of rolling mills to meet the standard prescribed in GSR 277(E) 31 st March, 2012 as amended from time to time	Do not generate any industrial effluent.
34	(vii)	Garland drain and collection pits shall be provided for each stock pile to arrest the run off in the event of heavy rain fall and to check the water pollution due to surface run off	Provided garland drain.
35	(viii)	The project proponent shall practice rainwater harvesting to maximum possible extent	RWH scheme is provided by way of collection and percolation tank.
36	(ix)	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and recycling treated water	Agreed and accepted.
IV. NOISE MONITORING AND PREVENTION			

37	(i)	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the ministry as a part of six-monthly compliance report	Survey done; monitoring reports enclosed as annexure iii.
38	(ii)	The ambient noise level should confirm to the standards prescribed under E(P)A Rule. 1986 viz 75 dB(A) during day time and 70 dB(A) during night time	Monitoring done; monitoring reports enclosed as annexure iii.
V. ENERGY CONSERVATION MEASURE			
39	(i)	The project proponent shall provide waste recovery system (pre-heating of combustion air) at the flue gases of the reheating furnaces.	Already Provided. We have installed recuperator for waste gas recovery around 450°C is recovered.
40	(ii)	Practice hot charging of slabs and billets/ blooms as far as possible	Agreed
41	(iii)	Ensure installation of regenerative type burners on all reheating furnaces	Accepted and already provided.
42	(iv)	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly	Started study and planning the roof top solar power generation, will be taken in next financial year.
43	(v)	The project proponent shall provide LED lights in their offices and residential areas	Already provided and around 25 Lakh capital expenditure is done till date.
VI. WASTE MANAGEMENT			
44	(i)	Used refractories shall be recycled as far as possible	It is a regular practice with our unit.

45	(ii)	Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried and briquetted and reuse melting furnace	Accepted
46	(iii)	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and MoU in this regard shall be submitted to the ministry's Regional Office	No generation of fly ash.
47	(iv)	The waste oil, grease and other hazardous waste shall be disposed off as per the Hazardous and Other Waste (Management and Transboundary Movement) Rule, 2016	Accepted
48	(v)	Kitchen waste shall be composted or converted to biogas for further use	Accepted
VII. GREEN BELT			
49	(i)	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guideline. The green belt shall inter alia cover the entire periphery of the plant	We have dedicated 4.19 hector of land for green belt and started developing green belt, photos enclosed as annexure ii.
50	(ii)	The project proponent shall prepare GHG emission inventory for the plant and shall be submit the program for reduction of the same including carbon sequestration including plantation	Agreed
VIII. PUBLIC HEARING AND HUMAN HEALTH ISSUE			
51	(i)	Emergency preparedness plan based on Hazard identification and Risk Assessment (HIRA) and disaster management plan shall be implemented	Agreed

52	(ii)	The project proponent shall carry out heat stress analysis for the workman who work in high temperature work zone and provide personnel protection equipment's as per the norms of Factory Act.	Following measures taken for safety – 1.Safety shoes provided 2. Helmets to the all working personnel 3.Long Handel equipment's to protect from heat 4. Hand gloves for handling of Raw Material 5. EOT cranes provided and regular check-up/ monitoring done. 6. Hydraulic Pokers are used to poker material into furnace. 7. Automation line with PLC are used to remove all manual work nearby heat area.
53	(iii)	Provision shall be made for the housing of construction labor 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 should be in form of temporary structure to be removed after completion of the project	Agreed and provided while construction phase.
54	(iv)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the	One doctor and one nursing staff is appointed for regular

		Factories Act.	health checkup, the report is submitted to factory inspector.
IX. CORPORATE SOCIAL RESPONSIBILITY			
55	(i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA-III dated 1 st May 2018, as applicable regarding corporate social responsibility	Agreed
56	(ii)	The company shall have a well laid down environmental policy duly approved by the board of director. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any 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.	Agreed
57	(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.	A cell is established headed by General Manager Cell is supported by totally 5 no of people now.
58	(iv)	Action 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	EMP funds earmarked. The funds breakup in various items. Funds not diverted

		year wise fund earmarked for protection measures shall be kept in separate account and not to be diverted to 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.	anywhere. Year wise progress of implementation of EMP action plan is enclosed as annexure i.
59	(v)	Self environmental audit shall be conducted every year. Every three years third party environmental audit shall be carried out.	Submitted every year in Form V and third party environmental audit will be carried out in due course.
60	(vi)	All the recommendation made in the charter on corporate responsibility for environment protection for the plant shall be implemented.	Agreed
X. MISCELLANEOUS			
61	(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 proponents website permanently.	Agreed Copy of the same is uploaded on our official website.
62	(ii)	The copies of the environmental clearance shall be submitted by the project proponent to the heads of local bodies, panchayat and municipal bodies in addition to the relevant offices of the government who in term has to display the same for 30 days from the date of	Agreed and submitted to the nearby local bodies.

		receipt	
63	(iii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including result of monitored data on their website and update the same on half yearly basis	Compliance and monitoring report uploaded on our official website.
64	(iv)	The project proponent shall monitor the criteria pollutants level namely, PM10, SO2, NOx (ambient level as well as stack emissions) or critical sectoral parameters, indicated for the project and display the same at a convenient location for disclosure to the public and put on the website of the company.	Monitoring done and reports enclosed as annexure iv.
65	(v)	The project proponent shall submit the six monthly compliance report on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environmental clearance portal	Agreed
66	(vi)	The project proponent shall submit the environmental statement for each financial year in Form – V to the concern State Pollution Control Board as prescribed under Environmental (Protection) Rule, 1986, as amended subsequently and put on the web site of the company	Every year environmental statement submitted in Form V.
67	(vii)	The project proponent shall inform to the Regional Office as well as Ministry the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of	Agreed

		production operation by the company	
68	(viii)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government	Agreed and accepted.
69	(ix)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during public hearing and also that during their presentation to the EAC	Yes, agreed and accepted.
70	(x)	No further expansion / modification in the plant shall be carried out without proper approval of the MoEF&CC.	Accepted and care will be taken.
71	(xi)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environmental (Protection) Act, 1986	Agreed
72	(xii)	The ministry may revoke suspend the clearance, if implementation of any of the above conditions is not satisfactory	Agreed and accepted.
73	(xiii)	The ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Agreed
74	(xiv)	The Regional Office of the Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer of the Regional Office by furnishing requisite data/information monitoring reports.	Agreed

75	(xv)	The above conditions shall be enforced, inter alia under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and 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 other orders passed by the Hon'ble Supreme Courts and any other Court of Law relating to the subject matter.	Agreed and accepted.
76	(xvi)	Any against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of National Green Tribunal Act,2010.	Conditions accepted.

Encl: Annexure i to iv

For Jailaxmi Casting and Alloys Pvt Ltd;



Authorized Signatory

Annexure I

ENVIRONMENTAL MANAGEMENT PLAN

The Environment Management Plan (EMP) outlines the mitigation, monitoring and organizational measures to be taken during project operation activities. The EMP focuses on potential impacts that have been identified as part of the Impact Assessment process. Site specific Environment Management Plan has been formulated to mitigate potential adverse environmental impacts.

Some of the major objectives of the EMP are:

- Ensure the project implementation with minimal impacts on all environmental components.
- Minimize the impacts on socio-economic indicators of local and adjoining regions.
- Maintain the highest level of readiness for setting the needs of any deviation in sustainability practices.
- Systematic implementation with adequate manpower, budget and action plan for EMP.
- To demonstrate the effectiveness of EMP workability along with the project proponent's commitment.

Jailaxmi Casting and Alloys Pvt Ltd is committed to ensuring environmentally sustainable and responsible operations to achieve the highest standards of excellence. JCAPL's existing unit has not only instituted Environmental Management System, but the site has also integrated the same with Quality Management and Occupational Health & Safety Management Systems.

EMP Budget and actual expenditure

Sr. No.	Component	Particular	Budgetary Allocation Capital Investment (INR, in lakhs)	Actual Expenditure
1	Air Environment	Construction of stack for Furnace, Installation of new bag filter, cyclone separator, fume collection hood and required equipment's	90	103.47
2	Water Environment	Up gradation of Existing STP	20	22.76
3	Noise Environment	PPEs for workers, enclosures to all noise generating equipment's		1.76
4	Environment Monitoring &	Quarterly Environment Monitoring		6.57

	Management			
5	Occupational Health & Safety	Glares, Breathing Masks, Gloves, Boots, Helmets, Ear Plugs etc. & annual health-medical checkup of workers, Occupational Health (training, OHC center)	20	18.96
6	Green Belt	Green belt development activity	30	43.17
7	Solid Waste Management	Installation of crusher with higher capacity and its Management	60	85.79
8	Rain Water Harvesting Tank	Construction of RWH tank Annual Cleaning up and maintenance of RWH tank	10	8.73

Annexure II - CER work detail

Corporate Environmental Responsibility

CER plan has been made from this perspective, to ensure the quality of life and quality of study area people will be improved. CER, in fact, is about business giving back to the society.

Jailaxmi Casting and Alloys Pvt Ltd proposes to allocate 125Lakh for CER activities. The same shall be implemented over a period of 5 years.

The activities under CER shall cover education, health, infrastructure, culture and sports, skill development & training and women empowerment.

Need for CER plan is for the health, education, sustainable lifestyles, social mobilization, infrastructure, water harvesting, agriculture and environmental protection, for the socioeconomic development of the project, to enhance the quality of social health.

Year of allocation	Amount in lakh	Activity	Cost estimate	Actual expenditure
2019	14.80	Expenditure for socio-economic development	2,76,000	2,76,000
2020	14.80	Provision for Education and medical facility in nearby vicinity	27,80,000	27,80,000
2021	14.70	Provision for Education and medical facility in nearby vicinity including socio-economic development	34,00,000	34,00,000
2022	14.70	Provision for Education and medical facility in nearby vicinity including socio-economic development	28,00,000	28,00,000
2023	14.70	Provision for Education and medical facility in nearby vicinity including socio-economic development	12,30,000	14,85,730

Annexure III - Monitoring reports

From Page No 24 onward

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)
ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No: -	GESEC/PRO/2022-23/02/111		Report Date	13.02.2023
Sample ID: -	GESEC/PRO/2022-23/02/111			
Name & Address of the Customer	M/s. Jailaxmi Casting & Alloys Pvt Ltd Gut No. 74 & 75, Village: Pharola, Tal: Paithan, Aurangabad			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Factory Main Gate		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10.10 am	06.10 am		08 Hrs.	
Meteorological Data/Environmental Conditions				
Ambient Temperature °C	29	Wet Bulb Temperature °C	20	
Dry Bulb Temperature °C	29	Relative Humidity % RH	48.4	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
06.02.2023	07.02.2023	07.02.2023	13.02.2023	
Parameters	Method	Unit	NAAQ Standards	Result
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/m ³	≤ 80	19.14
Oxides of Nitrogen (NO ₂)	IS:5182 (PART 6):2018	µg/m ³	≤ 80	22.45
Particulate Matter PM ₁₀	IS:5182 (PART 4):2019	µg/m ³	≤ 100	39.98
Particulate Matter PM _{2.5}	IS:5182 (PART 24):2019	µg/m ³	≤ 60	19.63
Ozone(O ₃) For 1 Hrs.	Method 411, Air Sampling and Analysis 3 rd Edition ,2013	µg/m ³	≤ 180	11.49
Ammonia (NH ₃).	Method 401, Air Sampling and Analysis 3 rd Edition ,2013	µg/m ³	≤400	13.72
Carbon Monoxide (CO)	MASA-822 3rd Edition	mg/m ³	≤ 04	BDL
Benzene (C ₆ H ₆)	IS 5182 (Part 11) :2006 (RA 2017)	µg/m ³	≤ 05	BDL
Benzo(a)Pyrene (BaP)	CPCB Manual Vol 1 2011	ng/m ³	≤ 01	BDL
Arsenic (As)	MASA-822 3rd Edition	ng/m ³	≤ 06	BDL
Nickel (Ni)	MASA-822 3rd Edition	ng/m ³	≤ 20	BDL
Lead (Pb)	MASA-822 3rd Edition	µg/m ³	≤ 1.0	BDL
Remark-				
<ul style="list-style-type: none"> ➤ All above results are within National Ambient Air Quality standards. ➤ BDL-Below Detectable Limit. 				
				 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By


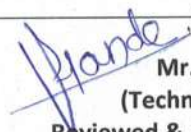
END OF REPORT

Page 1 of 1

Terms and conditions

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
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TEST REPORT				
Test Report No: -	GESEC/PRO/2022-23/02/112		Report Date	13.02.2023
Sample ID: -	GESEC/PRO/2022-23/02/112			
Name & Address of the Customer	M/s. Jailaxmi Casting & Alloys Pvt Ltd Gut No. 74 & 75, Village: Pharola, Tal: Paithan, Aurangabad			
Ambient Air Sample Details				
Type	Sampling Location	Sampling done by		
Ambient Air	Near Maintenance Department	GESEC		
Sampling Time				
Start Time	Stop Time	Total Hrs.		
10.20 am	06.20 am	08 Hrs.		
Meteorological Data/Environmental Conditions				
Ambient Temperature °C	29	Wet Bulb Temperature °C	20	
Dry Bulb Temperature °C	29	Relative Humidity % RH	48.4	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
06.02.2023	07.02.2023	07.02.2023	13.02.2023	
Parameters	Method	Unit	NAAQ Standards	Result
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/m ³	≤ 80	20.03
Oxides of Nitrogen (NO ₂)	IS:5182 (PART 6):2018	µg/m ³	≤ 80	22.97
Particulate Matter PM ₁₀	IS:5182 (PART 4):2019	µg/m ³	≤ 100	41.05
Particulate Matter PM _{2.5}	IS:5182 (PART 24):2019	µg/m ³	≤ 60	18.64
Ozone(O ₃) For 1 Hrs.	Method 411, Air Sampling and Analysis 3 rd Edition ,2013	µg/m ³	≤ 180	11.89
Ammonia (NH ₃)	Method 401, Air Sampling and Analysis 3 rd Edition ,2013	µg/m ³	≤400	13.02
Carbon Monoxide (CO)	MASA-822 3rd Edition	mg/m ³	≤ 04	BDL
Benzene (C ₆ H ₆)	IS 5182 (Part 11) :2006 (RA 2017)	µg/m ³	≤ 05	BDL
Benzo(a)Pyrene (BaP)	CPCB Manual Vol 1 2011	ng/m ³	≤ 01	BDL
Arsenic (As)	MASA-822 3rd Edition	ng/m ³	≤ 06	BDL
Nickel (Ni)	MASA-822 3rd Edition	ng/m ³	≤ 20	BDL
Lead (Pb)	MASA-822 3rd Edition	µg/m ³	≤ 1.0	BDL
Remark-	<ul style="list-style-type: none"> ➤ All above results are within National Ambient Air Quality standards. ➤ BDL-Below Detectable Limit. 			
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		


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TEST REPORT				
Test Report No: -	GESEC/PRO/2022-23/02/113		Report Date	13.02.2023
Sample ID: -	GESEC/PRO/2022-23/02/113			
Name & Address of the Customer	M/s. Jailaxmi Casting & Alloys Pvt Ltd Gut No. 74 & 75, Village: Pharola, Tal: Paithan, Aurangabad			
Ambient Air Sample Details				
Type	Sampling Location	Sampling done by		
Ambient Air	Near Cooling water Recirculation Tank	GESEC		
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10.30 am	06.30 am		08 Hrs.	
Meteorological Data/Environmental Conditions				
Ambient Temperature °C	29	Wet Bulb Temperature °C	20	
Dry Bulb Temperature °C	29	Relative Humidity % RH	48.4	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
06.02.2023	07.02.2023	07.02.2023	13.02.2023	
Parameters	Method	Unit	NAAQ Standards	Result
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	µg/m ³	≤ 80	20.87
Oxides of Nitrogen (NO ₂)	IS:5182 (PART 6):2018	µg/m ³	≤ 80	23.91
Particulate Matter PM ₁₀	IS:5182 (PART 4):2019	µg/m ³	≤ 100	39.27
Particulate Matter PM _{2.5}	IS:5182 (PART 24):2019	µg/m ³	≤ 60	18.01
Ozone(O ₃) For 1 Hrs.	Method 411, Air Sampling and Analysis 3 rd Edition ,2013	µg/m ³	≤ 180	12.44
Ammonia (NH ₃)	Method 401, Air Sampling and Analysis 3 rd Edition ,2013	µg/m ³	≤400	13.98
Carbon Monoxide (CO)	MASA-822 3rd Edition	mg/m ³	≤ 04	BDL
Benzene (C ₆ H ₆)	IS 5182 (Part 11) :2006 (RA 2017)	µg/m ³	≤ 05	BDL
Benzo(a)Pyrene (BaP)	CPCB Manual Vol 1 2011	ng/m ³	≤ 01	BDL
Arsenic (As)	MASA-822 3rd Edition	ng/m ³	≤ 06	BDL
Nickel (Ni)	MASA-822 3rd Edition	ng/m ³	≤ 20	BDL
Lead (Pb)	MASA-822 3rd Edition	µg/m ³	≤ 1.0	BDL
Remark-				
<ul style="list-style-type: none"> ➤ All above results are within National Ambient Air Quality standards. ➤ BDL-Below Detectable Limit. 				
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		

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TEST REPORT			
Test Report No: -	GESEC/PRO/2022-23/02/114	Report Date	13.02.2023
Sample ID: -	GESEC/PRO/2022-23/02/114		
Name & Address of the Customer	M/s. Jailaxmi Casting & Alloys Pvt Ltd Gut No. 74 & 75, Village: Pharola, Tal: Paithan, Aurangabad		
Ambient Noise Sample Details			
Type	Ambient Noise		
Sampling done by	GESEC		
Standard method	As Per IS: 9989:2020		
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
06.02.2023	06.02.2023	06.02.2023	06.02.2023
Test Location	Unit	Average Noise Level Readings	CPCB Standards dB(A)
		Day	
Near Scrap Handling Area	dB (A)	68.7	During Day time = 75 dB (A)
Near Main Gate	dB (A)	67.6	
Near Billet Casting Area	dB (A)	66.4	
Near Air Pollution Control Unit	dB (A)	59.2	
Near Office	dB (A)	54.1	
Remark-			
<ul style="list-style-type: none"> ➤ All above Noise level results are within Central Pollution Control Board Standards limit. ➤ Day -75/dB(A). 			



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(Technical Manager)
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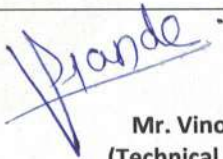
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TEST REPORT

Test Report No: -	GESEC/PRO/2022-23/02/115	Report Date	13.02.2023
Sample ID: -	GESEC/PRO/2022-23/02/115		
Name & Address of the Customer	M/s. Jailaxmi Casting & Alloys Pvt Ltd Gut No. 74 & 75, Village: Pharola, Tal: Paithan, Aurangabad		
Ambient Noise Sample Details			
Type	Ambient Noise		
Sampling done by	GESEC		
Standard method	As Per IS: 9989:2020		
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
06.02.2023	06.02.2023	06.02.2023	06.02.2023
Test Location	Unit	Average Noise Level Readings	CPCB Standards dB(A)
		Night	
Near Scrap Handling Area	dB (A)	58.6	During Day Night = 70 dB (A)
Near Main Gate	dB (A)	59.4	
Near Billet Casting Area	dB (A)	54.7	
Near Air Pollution Control Unit	dB (A)	53.0	
Near Office	dB (A)	52.2	
Remark-			
<ul style="list-style-type: none"> ➤ All above Noise level results are within Central Pollution Control Board Standards limit. ➤ Night -70/dB(A). 			
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By	


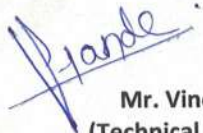
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TEST REPORT				
Test Report No: -	GESEC/PRO/2022-23/02/116		Report Date	13.02.2023
Sample ID: -	GESEC/PRO/2022-23/02/116			
Name & Address of the Customer	M/s. Jailaxmi Casting & Alloys Pvt Ltd Gut No. 74 & 75, Village: Pharola, Tal: Paithan, Aurangabad			
WORK ZONE AIR Sample Details				
Type	Sampling Location		Sampling done by	
Work zone Air	Near Annealing furnace		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10.05 am	06.05 pm		08 Hrs.	
Meteorological Data/Environmental Conditions				
Ambient Temperature °C	27	Wet Bulb Temperature °C	21	
Dry Bulb Temperature °C	27	Relative Humidity % RH	45.3	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
06.02.2023	07.02.2023	07.02.2023	13.02.2023	
Parameters	Method	Unit	As per Factory Act	Result
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	mg/m ³	<10	2.97
Oxides of Nitrogen (NO ₂)	IS:5182 (PART 6):2018	mg/m ³	<10	3.64
Suspended particulate Matter	IS:5182 (PART 4):2019	mg/m ³	--	10.79
Remark				
<ul style="list-style-type: none"> ➤ All above result are well within the Factory act,1948 standards. ➤ N.S .Not Specified 				
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		

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TEST REPORT				
Test Report No: -	GESEC/PRO/2022-23/02/117		Report Date	13.02.2023
Sample ID: -	GESEC/PRO/2022-23/02/117			
Name & Address of the Customer	M/s. Jailaxmi Casting & Alloys Pvt Ltd Gut No. 74 & 75, Village: Pharola, Tal: Paithan, Aurangabad			
WORK ZONE AIR Sample Details				
Type	Sampling Location		Sampling done by	
Work zone Air	CCM area		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10.15 am	06.15 pm		08 Hrs.	
Meteorological Data/Environmental Conditions				
Ambient Temperature °C	27	Wet Bulb Temperature °C	21	
Dry Bulb Temperature °C	27	Relative Humidity % RH	45.3	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
06.02.2023	07.02.2023	07.02.2023	13.02.2023	
Parameters	Method	Unit	As per Factory Act	Result
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	mg/m ³	<10	2.14
Oxides of Nitrogen (NO ₂)	IS:5182 (PART 6):2018	mg/m ³	<10	3.98
Suspended particular Matter	IS:5182 (PART 4):2019	mg/m ³	--	10.24
Remark				
<ul style="list-style-type: none"> ➤ All above result are well within the Factory act,1948 standards. ➤ N.S .Not Specified 				
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TEST REPORT				
Test Report No	GESEC/PRO/2022-23/02/118	Report Date	13.02.2023	
Sample ID: -	GESEC/PRO/2022-23/02/118			
Name & Address of the Customer	M/s. Jailaxmi Casting & Alloys Pvt Ltd Gut No. 74 & 75, Village: Pharola, Tal: Paithan, Aurangabad			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
06.02.2023	07.02.2023	07.02.2023	13.02.2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
S.No -1	Induction Furnace		GESEC	
Shape	Round	Fuel Used	--	
Diameter/ Dimensions (m)	2.0	Pressure	3.7	
Height (m)	30.0			
Temperature (k)	323	Velocity (m/s)	6.76	
Gas Volume (Nm ³)	70520.74			
Parameters	Method	Unit	Limit	Result
Particulate Matter	IS 11255 (Part 1) 2019	mg/NM ³	<50	42.31
Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) 2019	mg/NM ³	--	N.D
Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) 2019	Kg/day	--	N.D
Oxides of Nitrogen	IS 11255 (Part 7) 2017	mg/NM ³	--	14.54
Remarks-				
<ul style="list-style-type: none"> ➤ All above results are well within MPCB Limit. ➤ N.D. Not Detected 				
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		

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TEST REPORT				
Test Report No	GESEC/PRO/2022-23/02/119	Report Date	13.02.2023	
Sample ID: -	GESEC/PRO/2022-23/02/119			
Name & Address of the Customer	M/s. Jailaxmi Casting & Alloys Pvt Ltd Gut No. 74 & 75, Village: Pharola, Tal: Paithan, Aurangabad			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
06.02.2023	07.02.2023	07.02.2023	13.02.2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
S.No -2	Re-Heating Furnace		GESEC	
Shape	Round	Fuel Used	LHSH	
Diameter/ Dimensions (m)	0.80	Pressure	3.5	
Height (m)	30.0			
Temperature (k)	417	Velocity (m/s)	7.47	
Gas Volume (Nm ³)	9658.3			
Parameters	Method	Unit	Limit	Result
Particulate Matter	IS 11255 (Part 1) 2019	mg/NM ³	<50	54.01
Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) 2019	mg/NM ³	--	22.14
Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) 2019	Kg/day	<288	5.13
Oxides of Nitrogen	IS 11255 (Part 7) 2017	mg/NM ³	--	18.62
Remarks-				
<ul style="list-style-type: none"> ➤ All above results are well within MPCB Limit. ➤ N.D. Not Detected 				
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TEST REPORT				
Test Report No	GESEC/PRO/2022-23/02/120	Report Date	13.02.2023	
Sample ID: -	GESEC/PRO/2022-23/02/120			
Name & Address of the Customer	M/s. Jailaxmi Casting & Alloys Pvt Ltd Gut No. 74 & 75, Village: Pharola, Tal: Paithan, Aurangabad			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
06.02.2023	07.02.2023	07.02.2023	13.02.2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
S.No -3	DG Set 600 kVA		GESEC	
Shape	Round	Fuel Used	Diesel	
Diameter/ Dimensions (m)	0.150	Pressure	3.5	
Height (m)	5.0			
Temperature (k)	417	Velocity (m/s)	7.47	
Gas Volume (Nm ³)	339.55			
Parameters	Method	Unit	Limit	Result
Particulate Matter	IS 11255 (Part 1) 2019	mg/NM ³	<150	47.25
Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) 2019	mg/NM ³	--	19.63
Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) 2019	Kg/day	--	0.15
Oxides of Nitrogen	IS 11255 (Part 7) 2017	mg/NM ³	--	24.01
Remarks-				
➤ All above results are well within MPCB Limit.				
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		

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TEST REPORT				
Test Report No - GESEC/PRO/2022-23/02/121	Report Date		13.02.2022	
Sample ID - GESEC/PRO/2022-23/02/121	Sample Details		STP Outlet	
Name & Address of the Customer M/s. Jailaxmi Casting & Alloys Pvt Ltd Gut No. 74 & 75, Village: Pharola, Tal: Paithan, Aurangabad	Type of Sample		Weast Water	
	Volume Of Sample		1 Lit plastic bottle	
	Sample Status		Sealed	
	Sample Collected By		GESEC	
	Date of Sample Collection		06.02.2022	
	Sample Receipt Date		07.02.2022	
	Analysis start Date		07.02.2022	
Analysis End Date		13.02.2022		
Parameters	Results	Limit	Unit	Standard Method
pH	6.89	6.5 to 9.0	--	APHA 4500 H+, B 23rd Edition.2017
Total Suspended Solid	45.2	Max 100	mg/l	APHA 2540 D 23rd Edition.2017
Total Dissolved Solid	1185	Max 2100	mg/l	APHA 2540, C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	104.3	Max 250	mg/l	IS 3025 (Part 58), 2019
Biological Oxygen Demand (BOD) at 27°C for 3 days	26.07	Max 30	mg/l	IS 3025 (Part 44), 2019
Oil & Grease	<5	Max 10	mg/l	IS 3025 (Part 39), 2019
Chloride as Cl ⁻	61.83	Max 600	mg/l	APHA 4500 Cl- B,23rd Edition, 2017
Sulphate as SO ₄ ²⁻	97.47	Max 1000	mg/l	APHA 3025 (Part 24) ;2019
Remark.				
➤ All parameters are within the MPCB limit				
				 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By

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