

## COMPANY

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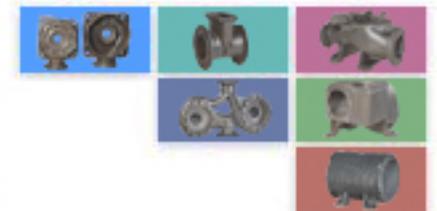
### Introduction

 098430 19800

#### welcome to our Company

Established in 1990, Sarvalakshmi Foundries has been the best integrated private sector company. SLF has been the Highest quality: Lowest cost Ferrous products manufacturers in India, and also been the prime suppliers of ferrous components for all major sectors. Sarvalakshmi Foundries has set the pace for the consolidation and globalization of the world grey-iron industry. We have spread best practice and modern production techniques throughout our plant. Our 500 strong customer base, includes household names in the automotive, engineering and appliance sectors.

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### Facilities

- » [Melting](#)
- » [The Core Shop](#)
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- » [Pattern Facility](#)
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### Process & Quality

Since 30 years, Sarvalakshmi Foundries have manufactured Grey Iron Castings for customers with the highest quality requirements. An excellent product quality and a perfect customer service are the most important goals in our business.

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### Production

Sarvalakshmi Foundries produces All grades of Grey and S.G iron castings to Indian and International standards.can also be produced at a customer's request.



**Twin Pump Casing**



**Bottom Casing**

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## About Us

Sarvalakshmi Foundries was established in 1990 as a small scale industry. At that time, annual production was 350 tons of grey cast iron castings. 30 people worked in a single shift. Melting was carried out in a cupola. Hand-moulding was the major process of manufacture. The clients were mainly manufacturers of motors and pumps.

Today Sarvalakshmi Foundries has developed into a foundry with an annual capacity of 6000 tons of grey cast iron and sg iron castings. 125 people work in 3 shifts. Melting is done in a modern medium frequency 1.5 ton capacity coreless induction furnace. Moulding is carried out in Arpha 300, Arpha 450 and BQ5 moulding machines that are well-serviced by an automated sand-plant. Sand hoppers for storing 150 tons of moulding sand are available. This ensures that sand is adequately cooled before being recycled for moulding. High speed intensive sand mixers supply sand of desired quality to the moulding machines. Adequate shot-blasting and fettling facilities are available in-house.

A well-equipped laboratory having modern process control equipments like spectrometer, universal testing machine, impact testing machine, Brinell hardness tester, microscope, sand-testing equipments, facilities for wet analysis etc are available.

The clients include manufacturers of valves, fittings, automobiles, motors, pumps, compressors, textile machineries and other engineering industries. Sarvalakshmi Foundries have customers all over south India. Now they are aggressively planning to be world players. In order to achieve this, marketing offices have been opened in USA, Canada, France and Australia.

## Our Philosophy

Sarvalakshmi Foundries growth has been founded on a consistent philosophy: that to be able to deliver the range and quality of products customers demand the modern Grey Iron maker. Sarvalakshmi Foundries enjoys access to world market through a sales and marketing network that touches every corner of the globe. A comprehensive portfolio of products allows SLF to deliver whatever our customers require – wherever they require it – and whenever they require it.

The management is progressive and forward-looking. A heavy investment has been made in modernizing and upgrading the foundry during the last two years. Competent and experienced personnel have been recruited in crucial areas. The company is fully committed to the idea that the customer is central to any business. Everyone in the foundry focuses on meeting and exceeding customer requirements – in terms of quality and timely supplies.

The management firmly believes in training and developing human resources. It is a matter of conviction that competent and committed employees are the best assets of an organization. Adequate in-house facilities are present for training and development of employees. They are also encouraged to attend professional seminars.

Today Sarvalakshmi foundries is an ISO 9001 certified organization with an efficient quality management system in place.

It is a matter of pride that Sarvalakshmi Foundries is one of the very few medium-size foundries in India that is ISO 14001 certified. Apart from meeting their business objectives, the management believes there are social obligations to be met in terms of nurturing a safe, non-polluting and healthy environment for the employees and society.

The foundry maintains plants and trees in and around the works. They have installed a rain-water harvesting unit within their works. High quality dust-collection systems including wet-scrubbers, bag filters and cyclone filters have been installed in the works

## Management

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**Mr. P. Natarajan** is the Founder of Sarvalakshmi Foundries (P) Ltd. He founded the company in 1989 and has been responsible for the strategic direction and development of its businesses. Mr. P. Natarajan's ability to guide the company in its identification, and turnaround of grey-iron has led to its emergence as one of the India's fastest growing ferrous component manufacturer.

**Mr. P. Natarajan** began his career working in the Cast-Iron making business in Coimbatore, India, and has over 30 years of experience working in Cast-Iron, paper, yarn and related industries. Mr. P. Natarajan is an active philanthropist and a member of various trusts. Lakshmi paper Cones is a significant contributor to local community and welfare activities. He has 2 sons, Prabhu Natarajan and Pradeep Natarajan.

**Mr. Prabhu Natarajan** is actively involved in issues of company, with a particular emphasis on administration, production and quality.

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## Our Vision & Our Mission

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### Our Vision

**To be among the global top 100 ferrous-iron component manufacturers.**

### Our Mission

Our mission is to be more than just successful. It is to be admired for our culture and for the quality, service and management standards that implies. Nothing less will do.

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CERTIFICATE ♦ CERTIFICADO ♦ CERTIFIKAT ♦ 認証証書 ♦ CERTIFICATE ♦ CERTIFIKAT



South Asia

# CERTIFICATE

The Certification Body  
of TÜV SÜD South Asia Private Limited

certifies that

**SARVALAKSHMI FOUNDRIES (P) LIMITED**  
4/3, POWER HOUSE ROAD,  
PALANIGOUNDENPUDUR, K.VADAMADURAI (PO)  
COIMBATORE – 641 017, TAMILNADU, INDIA

has established  
and applies an Environmental Management System for

**Manufacture, Supply of Grey Iron and  
Ductile Iron Castings for Domestic / Export Markets**

An audit was performed, Report No. 20052014

Proof has been furnished that the requirements according to  
**ISO 14001 : 2004**

are fulfilled. The certificate is **valid until 2012-12-18**

Subject to successful completion of the Annual Audit before **2010-10-13**

The present status of this Certificate can be obtained on [www.tuv.sud.in](http://www.tuv.sud.in)

Further clarifications regarding the scope of this certificate and the applicability of  
ISO 14001:2004 requirements may be obtained by consulting the certification body.

Certificate Registration No. 99 104 00040

Mumbai,

Original Issued Date: 2010-01-14

Effective Date : 2010-01-14



Certification Body  
of TÜV SÜD South Asia  
Member of TÜV SÜD Group



TÜV SÜD  
CERTIFIKAT ♦ CERTIFICATE ♦ 認証証書 ♦ CERTIFICADO ♦ CERTIFICAT



South Asia

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The Certification Body  
of TÜV SÜD South Asia Private Limited

certifies that



**SARVALAKSHMI FOUNDRIES (P)  
LIMITED**

4/3, POWER HOUSE ROAD,  
PALANIGOUNDENPUDUR, K.VADAMADURAI,  
COIMBATORE - 641 017, TAMILNADU, INDIA

has established  
and applies a Quality Management System for

**Manufacture, Supply of Grey Iron and  
Ductile Iron Castings for Domestic / Export Markets**

An audit was performed, Report No. 20052014  
Proof has been furnished that the requirements according to

**ISO 9001 : 2008**

are fulfilled. The certificate is **Valid until 2015-12-16**  
Subject to successful completion of the **Annual Audit before 2013-09-11**

The present status of this Certificate can be obtained on [www.tuv-sud.in](http://www.tuv-sud.in)

Further clarifications regarding the scope of this certificate and the applicability of  
ISO 9001:2008 requirements may be obtained by consulting the certification body

Certificate Registration No. **99 100 14074**

Mumbai

Effective Date: 2012-12-17

Certification Body  
of TÜV SÜD South Asia Private Limited  
Member of TÜV SÜD Group



## Facilities

	<p><b>A) Melting shop</b></p> <p>Suitable materials are used to melt different grades of cast iron in the medium frequency core-less induction furnace. The chemistry of the molten metal is checked before pouring the castings. Pouring temperature and pouring speed of individual items are monitored to ensure consistently high quality of castings.</p>								
Induction furnace	750 kW, Dual Track 1.5 ton capacity, medium frequency core-less induction furnace - Inductotherm make								
Ladies	250 kg capacity pouring ladles (5 nos) 500 kg capacity pouring ladles (2 nos) 1000 kg capacity ladles (2 nos) 2000 kg capacity ladle (1 no)								
EOT crane	5 ton capacity (1 no)								
	<ul style="list-style-type: none"> <li>Carbon equivalent meter for checking composition of molten metal before pouring</li> <li>Monorail system for mould pouring</li> </ul>								
	<p><b>B) Moulding shop</b></p> <p>The moulds are made of silica sand of high purity.</p> <p>The grain size and size distribution of this critical raw material is monitored during all supplies.</p> <p>Other moulding sand additives like bentonite and coal dust are also tested before use.</p> <p>The mixed sand that is supplied for making moulds is tested at regular intervals.</p> <p>The quality of moulds made is also routinely checked before they are closed and sent for pouring.</p> <ul style="list-style-type: none"> <li>Hand moulding to make up to 1000 kg single piece castings.</li> <li>Electric hoists to handle moulding boxes before &amp; after moulding and also moulding bed during maintenance.</li> <li>Mould cars, track lines, pneumatic pushers.</li> <li>Green sand system in machine moulding.</li> <li>Green sand and CO2 silicate processes in hand moulding.</li> <li>CO2 silicate and no bake processes for cores</li> </ul>								
Moulding machines	<table border="1"> <thead> <tr> <th>moulding machines</th> <th>moulding box size (mm)</th> </tr> </thead> <tbody> <tr> <td>Horizontal High Pressure Line</td> <td>850 × 600 × 300 ht</td> </tr> <tr> <td>(G.S)</td> <td></td> </tr> <tr> <td>Horizontal High Pressure Line Sinto</td> <td>500 × 400 × 180</td> </tr> </tbody> </table>	moulding machines	moulding box size (mm)	Horizontal High Pressure Line	850 × 600 × 300 ht	(G.S)		Horizontal High Pressure Line Sinto	500 × 400 × 180
moulding machines	moulding box size (mm)								
Horizontal High Pressure Line	850 × 600 × 300 ht								
(G.S)									
Horizontal High Pressure Line Sinto	500 × 400 × 180								
Sand mixers	500 kg capacity (2 no) 200 kg capacity (2 nos)								
Sand plant	Including sand storage hoppers of capacity 120 tons, belt conveyors, bucket elevators, polygonal sieve, magnetic separators etc								
EOT cranes	5 ton capacity (1 no) 2 ton capacity (2 nos)								
	<p><b>C) Core-shop</b></p> <p>Cores are made manually and by a core-shooter. Core-making is done by sodium silicate-CO2, amine and no-bake oil processes.</p> <p>The mixed sand used for making cores is tested regularly.</p> <p>Cores are inspected visually and for all critical dimensions before use. A sand drier is used to dry incoming wet sand during monsoon.</p>								
Sand drier	1 ton / hr capacity (1 no)								
Sand mixer	100 kg capacity (2 nos)								
	<p><b>Core-shooter</b></p> <p>Cores manufactured by amine process (4 no)</p>								
	<p><b>D) Pattern shop</b></p> <p>All patterns and core-boxes are inspected and corrected if required, before being released for production of moulds and cores. New patterns and core-boxes are checked for dimensions and methoding. Repairing facilities for wooden, aluminium, gun-metal and cast iron patterns and core-boxes are available in-house.</p> <p>Continuous improvement in the areas of casting yield and cost reduction are carried out regularly.</p> <ul style="list-style-type: none"> <li>Facilities for inspection, repair and mounting of patterns on match plates.</li> <li>Marking table for dimensional inspection of patterns, core boxes and castings.</li> <li>Methoding, mounting patterns and fixing gating &amp; risering on match plates.</li> </ul>								
									
	<p><b>E) Shot-blasting &amp; fettling shop</b></p> <p>The castings produced are cleaned of sand sticking. The running and risering systems are removed from the castings. They are then ground, finished, painted, packed (wherever necessary) and made ready for shipping.</p> <p>Shot-blasting machine Pedestal grinders Portable electric and pneumatic grinding machines Portable cut-off machines</p>								
	<p><b>F) Machining Facilities</b></p> <ul style="list-style-type: none"> <li>CNC Turning Centre</li> <li>CNC Vertical Machining Centres</li> <li>Boring machines</li> <li>Milling machines</li> <li>Radial drilling machine's</li> <li>Lathes</li> <li>Multi Spindle drilling and tapping machine</li> <li>Slotting machine</li> <li>Hydraulic testing rig.</li> </ul>								
	<p><b>G) Engineering services</b></p> <p>Preventive maintenance of all equipments directly or indirectly involved in production is carried out. On the rare occasion of a machine breakdown, repairs are carried out. Spare-parts of critical machines are kept. The aim is to achieve zero breakdown in the long-term.</p> <p>Department-wise energy consumption is also monitored and analysed. Suggestions for energy savings are implemented.</p>								
Power transformer	22 kV / 575 V 850 kVA transformer for furnace 22 kV / 440 V 400 kVA transformer for auxiliary equipments								
Compressors	Air-compressor screw-type; 8 kg/cm <sup>2</sup> pressure Air-compressor screw-type; 8 kg/cm <sup>2</sup> pressure Air-compressor (2 no)								
Diesel Generators	300 kVA capacity (1 no) 125 kVA capacity (1 no)								
Furnace accessories	heat-exchangers, cooling water pumps, hydraulic power pack etc								
Pollution control	Wet scrubbers, bag-type dust collectors, cyclone filters								
Rain-water harvesting									
	<p><b>H) Quality control &amp; laboratory</b></p> <p>Spectrometer with provision to measure 22 elements to test Chemistry of incoming raw materials and molten metal before pouring castings.</p> <p>Sand testing equipments (permeability, compactability, moisture, green compression strength, green shear strength, AFS number, Active clay, Dead clay, Total clay, Ash, Loss on ignition, Volatile matter for testing incoming, moulding and core sands.</p> <p>Universal Testing Machine of 40 T capacity to test mechanical properties of various grades of metal being poured.</p> <p>Brinell and Poldi hardness testers to check hardness of castings, and critical bought-out items like moulding pins, closing pins, bushes etc</p> <p>Metallurgical microscope for microstructure analysis of metal poured in various heats.</p> <p>Impact testing machine (Charpy and Izod tests) to check impact toughness of metal poured.</p> <p>Wet analysis testing facilities. Facilities for dimensional inspection of castings, patterns and core boxes.</p>								
									
									
Spectrometer	3460 model Spark emission spectrometer ARL - make								
Carbon-equivalent meter	Rapid carbon and silicon testing in molten metal								
Universal testing machine	40 T capacity								
Impact testing machine	Izod test - 330 J capacity Charpy test - 600 J capacity								
Brinell hardness tester	750 / 3000 kg loading capacity								
Sand-testing equipments	Sieve shaker; Permeability meter; Mould-hardness tester; Total clay, active clay and dead clay tests; Fixed carbon, volatile matter and percentage ash tests; Green compression and shear strength tester; Moisture tester								

## Product Overview

### Gray & SG Iron Casting

Sarvalakshmi Foundries produces a wide range of grey cast iron and SG iron castings to Indian and equivalent international standards.

Production capacity	6000 tons per annum		
Current production	3000 tons per annum		
Capacity available	3000 tons per annum		
Casting weight	up to 100 kg in machine moulding up to 1000 kg in hand-moulding		
Moulding machines	<b>moulding machines</b>		<b>moulding box size (mm)</b>
	Horizontal High Pressure Line		850 × 600 × 300 ht
	(G.S)		
	Horizontal High Pressure Line Sinto		500 × 400 × 180
Floor moulding	Adequate floor-space, skilled man-power, different sizes of moulding flasks and handling equipments available for making heavy castings weighing up to 1100 kg.		
Moulding process	Green sand process; CO2-silicate process		
Core-making process	CO2-silicate process; No-bake oil process; Amine process		
Grades	Cast iron and SG iron castings conforming to Indian Standards are presently manufactured. Castings to any other international standard required by a customer can also be manufactured.		
Casting types	Castings used in various sectors like automobile, infrastructure, motors, valves, pumps, compressors, machinery, pipe fittings etc.		

## Product Portfolio

Pump Casing ,Valve Body,Twin Pump Casing,Bottom Casing,Gear Box Housing,Motor Body

**Pump Casing**  
250kgs  
Grey Iron



**Valve Body**  
36kgs  
SG Iron



**Twin Pump Casing**  
170kgs  
SG Iron



**Bottom Casing**  
250kgs  
Grey Iron



**Gear Box Housing**  
35kgs  
SG Iron



**Motor Body**  
160kgs  
Grey Iron



### “Our Target is Your Success”

**Since 30 years, Sarvalakshmi Foundries, have manufactured Grey Iron Castings for customers with the highest quality requirements. An excellent product quality and a perfect customer service are the most important goals in our business.**

Sarvalakshmi's Policy is to take a planned approach to continuous improvement of our products, processes and services to meet or exceed our customer's expectations 100% of the time.

To produce our castings, only the best raw material is acceptable. We are exclusively using the finest scrap, coal and chemicals from the world's preferred vendors and manufacturing companies. To make sure that every single piece meets our strict requirements; all finished part is tested and approved by our specialists before shipment.

Our process and workforce that delivers consistent product quality translates directly into increased productivity and lower costs.

### Quality Certification For ISO 9001

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## Green Environment



In tune with environmental friendly philosophy of the organization, the following activities are also carried out.

- Planting and maintaining plants and trees.
- Rain water harvesting.
- Pollution control equipments installed and pollution tests carried out regularly for monitoring effectiveness.
- Reclaiming and recycling used sand.
- Residential quarters for staff and workers close to the organization.



Sarvalakshmi Foundries has implemented pollution prevention/ control program.

What is pollution prevention?

**"An Act to improve, strengthen, and accelerate programs for the prevention and abatement of air pollution and all pollution"**

Pollution prevention is the substantial reduction or elimination of discharges or emissions to the environment. This includes all pollution: hazardous and non-hazardous, regulated and unregulated, across all media, and from all sources. Pollution prevention can be accomplished by reducing the generation of wastes at their source (source reduction).

By reducing or eliminating wastes

- Reduce waste disposal costs
- Reduce costs for energy, water and raw materials
- Reduce operating costs
- Protect workers, the public and the environment
- Reduce risk of spills, accidents and emergencies
- Reduce vulnerability to lawsuits and improve its public image
- Generate income from wastes that can be sold.

How do we achieve this

- Improved Operating Procedures
- Materials Substitution
- Process Modifications & Redesign
- Treatment Alternatives
- Recycling

SLF demonstrates its commitment to pollution prevention and encourage employee participation by:

- Training employees in pollution prevention techniques
- Encouraging employee suggestions
- Providing incentives for employee participation
- Providing resources necessary to get the job done

## Wind Energy



Wind Electric Generator  
with installed capacity of 500 KW.

We are operating one Wind Electric Generator with installed capacity of 500 KW. This generator is capable to generating 50% of our total annual power requirements. Sarvalakshmi Foundaries has planned to install more wind electric generators for our power requirements.

## Rainwater Harvesting



A strong safety culture is instilled at every level of Sarvalakshmi Foundries. It is a fundamental tenet of Sarvalakshmi Foundries that safety must rank alongside issues of quality, productivity and profitability in the decision-making process. A safe workplace demonstrates a commitment to being a respected and admired organisation and fosters positive attitudes on the part of employees and other stakeholders. In short, a safe business is a good business.

A standardised approach is key. All business units must abide by the same high principles on health and safety, conduct the same core safety activities, undertake the same audit and achieve the same standard of excellent housekeeping.

An important element of safety policy is the sharing of experience throughout the company. They are then shared among all the company's health and safety teams. We have a clear vision at Sarvalakshmi Foundries. It is to establish a safety record that puts us consistently among the top 10 percent of the Domestic grey-iron manufacturers and ensures every business unit matches the standards of the very best. We aim to surpass local regulatory requirements, not just meet them.

## Health and Safety



Sarvalakshmi Foundries intends to protect the health and safety of everyone in the workplace, and ensure that adequate welfare facilities are provided for people at work. These regulations aim to ensure that workplaces meet the health, safety and welfare needs of all members of a workforce, including people with disabilities.

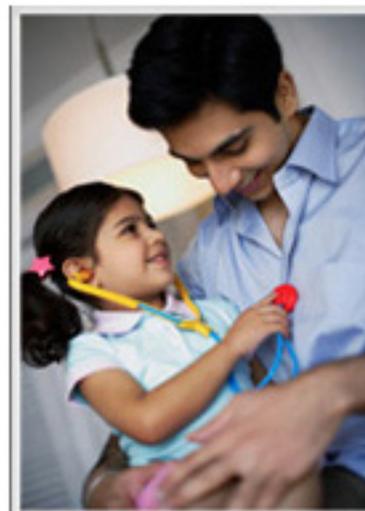
A strong safety culture is instilled at every level of Sarvalakshmi Foundries. It is supported by a robust set of safety standards and a system of performance monitoring. It is a fundamental tenet of Sarvalakshmi Foundries that safety must rank alongside issues of quality, productivity and profitability in the decision-making process. A safe workplace demonstrates a commitment to being a respected and admired organisation and fosters positive attitudes on the part of employees and other stakeholders.

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## Dust Collection

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State of the art dust collectors are installed which ensures an emission levels less than all National and International legislations

Sarvalakshmi Foundries is committed to rapid modernization and growth keeping in mind the universal focus on a clean and healthy environment. Modern manufacturing as well as pollution control equipments have been installed in the company. The pollution control equipments include wet scrubbers in the melting department, bag filters and cyclone dust collectors in the sand-plant and shot-blasting machine. Waste sand is used for land-filling.

The foundry is involved in other environmental management activities also. Plants and trees are grown and maintained in and around the works. A rain-water harvesting unit has been installed inside the works. Strict control over the quality of incoming raw materials also helps to reduce their consumption. This reduces cost, material wastage and indirectly helps in pollution control.

An associate company has also installed a 500 KW capacity wind-mill to tap into non-conventional forms of energy in power generation.

Sarvalakshmi Foundries is one of the very few medium-size foundries in the country that is ISO 14001 certified. Apart from meeting their business objectives, the management firmly believes in nurturing a safe, non-polluting and healthy environment for the society.

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## Technical Capabilities

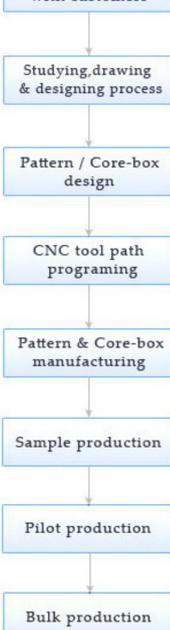
Sarvalakshmi Foundries manufactures a wide range of grey cast iron and s/g iron castings to Indian standards. Castings to other international standards can also be manufactured based on customer's requirements.

Production capacity	6000 tons per annum
Current production	3000 tons per annum
Capacity available	3000 tons per annum
Casting weight	up to 100 kg in machine moulding up to 1000 kg in hand-moulding
Casting types	Castings catering to a wide range of industrial segment saremanu factured valves, fittings, automobiles, pumps, compressors, machineries and other engineering industries

## Process Flowchart



## Product Development Flowchart



Sarvalakshmi Foundries has installed some of the latest equipments in quality control and process control areas. They help ensure that highest level of quality castings are poured each time consistently. Some of the instruments available for process control are:

3460 model AProcess Control RL spectrometer for rapid and accurate analysis of molten metal before pouring. This ensures that no off-grade metal is poured.

Carbon-equivalent meter for quick cross-check of carbon and silicon in molten metal before pouring. As carbon and silicon are two important elements that control cast iron characteristics, this built-in cross-check ensures a fail-proof system.

As an additional back-up a well-equipped laboratory with facilities for wet analysis of the casting chemical composition is also available

Test-bars are regularly poured and tested for mechanical properties like tensile strength, yield strength, elongation and impact strength. This ensures that customers' requirements in terms of mechanical properties are met in all supplies.

Casting microstructures are checked frequently as a cross-check to ensure that all customers' requirements, including ease of machinability, are met.

A well-equipped inspection department with surface table and instruments for dimensional check of castings are also available

With Sarvalakshmi Foundries the customer is assured of total quality and integrity of castings along with timely supplies.

## Equipments & Machinery



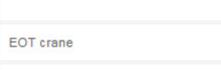
### A) Melting shop

Suitable materials are used to melt different grades of cast iron in the medium frequency core-less induction furnace. The chemistry of the molten metal is checked before pouring the castings. Pouring temperature and pouring speed of individual items are monitored to ensure consistently high quality of castings.



Induction furnace

750 kW, Dual Track 1.5 ton capacity, medium frequency core-less induction furnace - Inductotherm make



Ladles

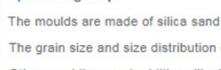
250 kg capacity pouring ladles (5 nos)  
500 kg capacity pouring ladles (2 nos)  
1000 kg capacity ladles (2 nos)  
2000 kg capacity ladle (1 no)



EOT crane

5 ton capacity (1 no)

- Carbon equivalent meter for checking composition of molten metal before pouring
- Monorail system for mould pouring



### B) Moulding shop

The moulds are made of silica sand of high purity. The grain size and size distribution of this critical raw material is monitored during all supplies. Other moulding sand additives like bentonite and coal dust are also tested before use. The mixed sand that is supplied for making moulds is tested at regular intervals.

The quality of moulds made is also routinely checked before they are closed and sent for pouring.

- Hand moulding to make up to 1000 kg single piece castings.
- Electric hoists to handle moulding boxes before & after moulding and also moulding bed during maintenance
- Mould cars, track lines, pneumatic pushers.
- Green sand system in machine moulding.
- Green sand and CO2 silicate processes in hand moulding.
- CO2 silicate and no bake processes for cores



Moulding machines

moulding machines	moulding box size (mm)
Horizontal High Pressure Line	850 × 600 × 300 ht
(G.S)	
Horizontal High Pressure Line Sinto	500 × 400 × 180



Sand mixers

500 kg capacity (2 no)  
200 kg capacity (2 nos)



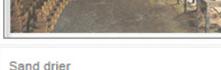
Sand plant

Including sand storage hoppers of capacity 120 tons, belt conveyors, bucket elevators, polygonal sieve, magnetic separators etc



EOT cranes

5 ton capacity (1 no)  
2 ton capacity (2 nos)



Sand drier

1 ton / hr capacity (1 no)



Sand mixer

100 kg capacity (2 nos)



Core-shooter

Cores manufactured by amine process (4 no)



Pattern shop

All patterns and core-boxes are inspected and corrected if required, before being released for production of moulds and cores. New patterns and core-boxes are checked for dimensions and methoding. Repairing facilities for wooden, aluminium, gun-metal and cast iron patterns and core-boxes are available in-house.

Continuous improvement in the areas of quality and cost reduction are carried out regularly.

- Facilities for inspection, repair and mounting of patterns on match plates
- Portable table for dimensional inspection of patterns, core boxes and castings.
- Methoding, mounting patterns and fixing gating & risering on match plates.



Shot-blasting & fettling shop

The castings produced are cleaned of sand sticking. The running and risering systems are removed from the castings. They are then ground, finished, painted, packed (wherever necessary) and made ready for shipping.

Shot-blasting machine  
Pedestal grinders  
Portable electric and pneumatic grinding machines  
Portable cut-off machines



Machining Facilities

- CNC Turning Centre
- CNC Vertical Machining Centres
- Boring machines
- Milling machines
- Radial drilling machine's
- Lathes
- Multi Spindle drilling and tapping machine
- Slotting machine
- Hydraulic testing rig.



Engineering services

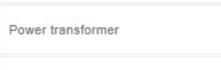
Preventive maintenance of all equipments directly or indirectly involved in production is carried out. On the rare occasion of a machine breakdown, repairs are carried out. Spare-parts of critical machines are kept. The aim is to achieve zero breakdown in the long-term.

Department-wise energy consumption is also monitored and analysed. Suggestions for energy savings are implemented.



Power transformer

22 kV / 575 V 850 kVA transformer for auxiliary equipments  
22 kV / 440 V 400 kVA transformer for furnace equipments



Compressors

Air-compressor screw-type; 8 kg/cm 2 pressure  
Air-compressor screw-type; 8 kg/cm 2 pressure  
Air-compressor (2 no)



Diesel Generators

300 kVA capacity (1 no)  
125 kVA capacity (1 no)



Furnace accessories

heat-exchangers, cooling water pumps, hydraulic power pack etc



Pollution control

Wet scrubbers, bag-type dust collectors, cyclone filters



Rain-water harvesting



Spectrometer

3460 model Spark emission spectrometer ARL - make



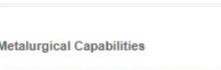
Carbon-equivalent meter

Rapid carbon and silicon testing in molten metal



Universal testing machine

40 ton capacity



Impact testing machine

Izod test - 330 J capacity  
Charpy test - 600 J capacity



Brinell hardness tester

750 / 3000 kg loading capacity



Sand-testing equipments

Sieve shaker; Permeability meter; Mould-hardness tester; Total clay, active clay and dead clay tests; Fixed carbon, volatile matter and percentage ash tests; Green compression and shear strength tester; Moisture tester

## Metallurgical Capabilities

Grades : Cast iron and s/g iron castings conforming to Indian Standards are presently manufactured. Castings to any other international standard required by a customer can also be manufactured

Material	ASTM	BS	DIN	JIS	ISO	Percentage poured
Ductile Iron Castings	A536	2789	1693	G 5502	1083	80 %
	65-45-15	400 / 15	GGG 40	FCD 40	400 / 15	
	65-45-12	400 / 12	GGG 40.3	FCD 45	400 - 12	
	80-55-06	450 / 10	GGG 50	FCD 50	500 - 7	
	80-60-03	500 / 7	GGG 60	FCD 60	600 - 3	
	100-70-03	600 / 3	GGG 70	FCD 70	700 - 2	
Grey Iron Castings	A 48	1452	1691	G 5501	R 185	20 %
	Grade20 A	Grade 15	GG 15	FC 15	Grade 15	
	Grade25 A	Grade 20	GG 20	FC 20	Grade 20	
	Grade30 A		GG 25	FC 25	Grade 25	
	Grade35 A		GG 30	FC 30	Grade 30	

Gray Iron Grades	ASTM	Hardness Range	Minimum Tensile
SAE Grade G2500 J431	A15 9 - 83	170 - 229 BHN 4.6 - 4.0 BID	25,000
SAE Grade G2500 J431	A159 - 83	187 - 241 BHN 4.4 - 3.9 BID	30,000
SAE Grade G2500 J431	A159 - 83	207 - 255 BHN 4.2 - 3.8 BID	35,000

SG Iron Grade

## People

Loyal, competent and committed people are the most precious resource in any organization. Selection of personnel, their training, monitoring effectiveness of training methods, providing them opportunities for development and growth etc are all planned carefully and monitored scientifically. Employees are encouraged to attend professional seminars.

The staff in Sarvalakshmi Foundries are well qualified and experienced. They have the freedom and authority to run each individual department effectively.

Clean and well-illuminated dining rooms are provided for the staff and workmen.



## Contact Us

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[Feedback Form](#)

### **SARVALAKSHMI FOUNDRIES (P) LIMITED**

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