



SHAH PRECAST

An ISO 9001:2015 Certified Foundry

PVT. LTD.

Supplier of Sand Castings in Raw / Fully Machined / Semi Finished -

- High-Nickel Alloys
- Duplex & Super Duplex
- Stainless Steel
- Carbon Steel & Low-Alloy Steel

PED 2014/68/EU

AD 2000-W0

NORSOK M650

API 20A

Established 1998 Sangli, Maharashtra, India www.shahprecicast.com





A Professionally Managed Sand-Casting Foundry

A professionally managed, India-based sand-casting foundry serving Valve, Pump & Engineering OEMs catering to Global Oil & Gas, Petrochemical, Offshore, Desalination, etc. industries.

Founded

- Foundry since Feb 1998.
- Machine Shop since Jan 2009.

Products

Machined / Raw Sand Castings from 50 to 650 kg in High-Nickel, Duplex, Super Duplex, Stainless, Low-Alloy & Carbon Steel.

Facilities

Three plants within a 1 km radius —

1. Foundry (Unit-I).
2. Captive Machine Shop (Unit-II).
3. Pattern Processing Unit

Quality Certifications

- ISO 9001:2015
- PED 2014/68/EU
- AD 2000-W0 Merkblatt
- NORSOK M650 Ed. 6 certified for Gr. 4A, 5A, 6A, CW6MC, Cu5MCuC & CK3MCuN.
- API 20A



Foundry Shop Division — Sangli, India



Machine Shop Division — Sangli, India



The Company at a Glance

1998

Established

In our 29th year of Operations

1,800^{MT}

Annual capacity

150 MT per month of Quality Castings

50^{kg} to 650^{kg}

Single Piece
Product Weight Range

Raw / Machined components

20⁺

High End + Conventional Machines equipped
Machine Shop

In addition, Overlay Welding & Hydro-testing

300⁺

Skilled / Semi-skilled workforce

Average experience > 15 years

53[%]

Export share of sales

Customers across 12+ countries

SALES SPLIT FY 2025-26

Export 53%

Domestic 47%



Vision, Mission & Values



VISION

- To be among the best global foundries
- Delighting customers with world-class castings at a competitive cost.
 - Prioritizing customer orders for timely deliveries.



MISSION

- Embrace continuously evolving foundry technology.
- Partner closely before, during & after every order.
- Ensure uncompromising testing for consistent, reliable castings.



VALUES

- Quality First
- Reliability & Consistency
- Technical Innovation
- Integrity & Trust
- Customer Partnership



Experienced Leadership, Deep Expertise



Mr. Nitin Shah
Managing Director

B.Com, MBA — 40+ years of corporate experience, 38 years in Sand Castings. Expertise in Finance, Marketing, Purchase & Administration.



Mr. Tanmay Shah
Director

B.E. (Mech.) — 12+ years of experience in Sand Castings. Expertise in Foundry & Machining Operations, Methoding & MAGMA simulation.



Mr. Ankur Shah
Director

BCA, PGDBM, MBA (Finance) – 10 years of experience in foundry. Expertise in IT related activities.



Mr. Pramod Patil
Plant In-charge, Unit-I

B.Com — 29+ years experience in Sand Castings. Expertise in PPC, NDT, Foundry Operations & Administration.



Mr. Sanjay Munavali
Production In-charge

D. Elect. – 27+ years experience in Sand Castings. Expertise in Moulding, Core Making, Production & Maintenance.



Mr. P. Adiga
Q.A. Manager

M. Tech (Met.) - 28+ years experience in Sand Castings. Expertise in Metallurgy, Quality Control & Assurance.



Mr. Vasudeo Sowani
QMS Co-ordinator

D.Mech — 28+ years experience in quality management standards, Quality Systems, Internal & Vendor Audits.



A Track Record Built Since 1998

To discuss with NRS.

Foundry commissioned — commercial production begins at Unit-I.

1998



2009

Unit-II captive Machine Shop established for in-house machining.

Plant modernization: Omega continuous mixer, 5-axis VTM & VMC.

2024



2025

NORSOK M650 (DNV) qualification and national export honours.

Planned growth: 1.5 MT furnace, API 20A & NABL accreditation.

2026



CERTIFIED TO

ISO 9001:2015 PED 2014/68/EU AD 2000-W0 Merkblatt NORSOK M650 Ed. 6 API 20A



Global Presence & Industries Served

GLOBAL FOOTPRINT



Key Export Markets

Italy

Germany

Spain

Netherlands

U.K.

S. Africa

U.S.A.

Saudi Arabia

U.A.E.

Trusted by End-Users: Saudi Aramco • ADNOC • Shell • Chevron • Total • Petrobras • ONGC • Qatar Energy • PDO • KOC • JGC

INDUSTRIES SERVED



Oil & Gas Exploration



Offshore Projects



Petroleum Refineries



Desalination Plants



Subsea Applications



Chemical Processing



Steam & Power



Heavy Engineering / Earth Moving



Food Processing



Engineered Advantages, Proven in the Field

01

Exotic Alloy Specialists

Deep expertise in High-Nickel, Duplex & Super Duplex grades — with controlled Sigma, Chi & Laves phases, having past track record of supply to critical projects.

02

All Testing In-House

Chemical, Mechanical, Impact, Corrosion, Micro & NDT Testing performed under one roof.

03

Simulation-Led Methoding

MAGMA solidification simulation with Niyama criterion to detect & eliminate potential indications; to reduce trial & errors on castings.

04

Best Melting Practices

AOD Ingots / Billets for Exotic Alloys, DSS Grades combining with usage of argon purging and clean, uniform scrap discipline.

05

Long-Term Partnerships

Decades-long relationships in form of continuous demand-supply with leading global Valve & Pump OEMs.

06

Quality Over Quantity

Rigorous contract review keeps customer-end rejection below 1%.

SPECIALIST METALLURGICAL CAPABILITIES

Controlled C / P / S chemistry

Dual Certification -
ASTM + DIN

σ / χ / Laves phase control

Impact testing upto -196°C

Micro • Corrosion • Ferrite Tests

WE CAN OFFER BELOW

SHAH PRECAST PVT. LTD.



ASTM & DIN Grades

ALLOY FAMILY	ASTM SPEC	ASTM GRADES	 ASTM INTERNATIONAL	DIN GRADES	 DIN
Carbon Steel	ASTM A216	WCB, WCC		1.0619	
	ASTM A352	LCC / LCB / LC3		1.6220+QT / 1.1138 / 1.5636	
Alloy Steel	ASTM A217	WC6, WC9		1.7357, 1.7379	
	ASTM A487	4C / 4D		–	
Martensitic Stainless Steel	ASTM A487 / A743 / A217	CA6NM, CA15		1.4317, 1.4107	



ASTM & DIN Grades (Cont.)

ALLOY FAMILY	ASTM SPEC	ASTM GRADES	 ASTM INTERNATIONAL	DIN GRADES	 DIN
Austenitic Stainless Steel	ASTM A351 / A743	CF8, CF3, CF10, CF8M, CF3M, CF10M, CF8C, CF8MC, CT15C, CK3MCuN, CG3M, CG8M, CN7M		1.4308, 1.4309, 1.4408, 1.4409, 1.4552, 1.4581, 1.4859	
Duplex & Super Duplex	ASTM A890 / A995	1B (CD4MCuN), 3A (CD6MN), 4A (CD3MN), 5A (CE3MN), 6A (CD3MWCuN)		1.4517, 1.4470, 1.4417	
Nickel-Base Alloys	ASTM A494	CU5MCUC (Incoloy 825), CW6MC (Inconel 625), CW12MW (HSTC), CX2MW, CW2M, CY40 (Inconel 600), N12MV (HSTB), CZ100, MONEL (M-30-C / M35-1)		2.4858, 2.4856, 2.4819, 2.4602, 2.4610, 2.4816, 2.4882, 2.4170, 2.4365	



Certified Quality, Standards-Compliant

An accredited quality system compliant with the international standards demanded by oil & gas, offshore and process industries.



ISO 9001:2015

Quality Management System



PED 2014/68/EU

Pressure Equipment Directive



AD 2000 MERKBLATT-W0

Merkblatt material approval



NORSOK M650

DNV-qualified for offshore

INTERNATIONAL STANDARDS FRAMEWORK

IOGP JIP33

Standardized procurement specs

API 20A

Foundry qualification

ASTM

Material & testing standards

NACE / AMPP

Sour-service corrosion control

ISO

Quality & test methods

Customer-specific

ARAMCO • ADNOC • ONGC • Shell



Accreditation Certificates

Scanned copies of our accreditation and third-party approval certificates.



ISO 9001:2015

Quality Management System



AD2000 Merkblatt W0

Material Manufacturer
acc. to AD2000 – Merkblatt W0



TN/PED-4-3/20973/25

Quality Management System
for Manufacturers of Material for
Pressure Equipment



DNV API 20A

Foundry Qualification of Casting
Manufacturer for Use in the Petroleum
& Natural Gas Industries



NORSOK M650 Certificates

DNV-witnessed NORSOK M650 material qualification certificates for duplex, super duplex and nickel-base grades.

DNV

MATERIAL MANUFACTURE STATEMENT

Certificate No.: 13839-2018-PC-IND-DNV Rev. 1
Initial date: 22 June, 2018
Validity: 20 June, 2028

This statement consists of 3 pages

This is to certify that the product(s)

Sand Castings

Manufactured by:

Shah Precast Pvt. Ltd. (Unit I)
E 35-36, Bannoli Road, MIDC, Kurnool, Sangli - 416436, Maharashtra, India.

has been reviewed / assessed with respect to:
THE REQUIREMENTS SPECIFIED IN NORSOK M-650 ED. 4 ON QUALIFICATION OF MANUFACTURERS OF SPECIAL MATERIALS AND FOUND TO COMPLY.

Applications/limitations:
See page 2 & 3
This Material Manufacture Statement to be read in full.
Reference to the part of this statement which may lead to misinterpretation is not permissible.

This certificate is valid for the following products:

NORSOK M-630:2020 MDS D46 Rev. 6 ASTM A995 Gr. 4A UNS J93205
NORSOK M-630:2020 MDS D56 Rev. 6 ASTM A995 Gr. 5A UNS J93404

Place and date:
Chennai, 07 November, 2023

For the issuing office:
DNV Business Assurance India Pvt. Ltd.

Iyer, Haritharan

Sundareswara

Manager - Product Certification

DNV

MATERIAL MANUFACTURE STATEMENT

Certificate No.: C85535 Rev. 0
Initial date: 27 May, 2024
Validity: 28 May, 2029

This statement consists of 3 pages

This is to certify that the product(s)

Sand Castings

Manufactured by:

Shah Precast Pvt. Ltd. (Unit I)
E 35-36, Bannoli Road, MIDC, Kurnool, Sangli - 416436, Maharashtra, India.

has been reviewed / assessed with respect to:
THE REQUIREMENTS SPECIFIED IN NORSOK M-650 ED. 4 ON QUALIFICATION OF MANUFACTURERS OF SPECIAL MATERIALS AND FOUND TO COMPLY.

Applications/limitations:
See page 2 & 3
This Material Manufacture Statement to be read in full.
Reference to the part of this statement which may lead to misinterpretation is not permissible.

This certificate is valid for the following products:

NORSOK M-630:2020 MDS D56 Rev. 6 ASTM A995 Gr. 6A UNS J93380

Place and date:
Chennai, 17 May, 2024

For the issuing office:
DNV Business Assurance India Pvt. Ltd.

Iyer, Haritharan

Sundareswara

Manager - Product Certification

DNV

MATERIAL MANUFACTURE STATEMENT

Certificate No.: C85535 Rev. 0
Initial Certification date: 22 July, 2023
Validity: 22 July, 2030

This statement consists of 3 pages

This is to certify that the product(s)

Sand Castings

Manufactured by:

Shah Precast Pvt. Ltd. (Unit I)
E 35-36, Bannoli Road, MIDC, Kurnool, Sangli - 416436, Maharashtra, India.

has been reviewed / assessed with respect to:
THE REQUIREMENTS SPECIFIED IN NORSOK M-650 ED. 4 ON QUALIFICATION OF MANUFACTURERS OF SPECIAL MATERIALS AND FOUND TO COMPLY.

Applications/limitations:
See page 2 & 3
This Material Manufacture Statement to be read in full.
Reference to the part of this statement which may lead to misinterpretation is not permissible.

This certificate is valid for the following products:

NORSOK M-630:2020 MDS R16/R16S Rev. 6 ASTM A351 Gr. CK3MCuN

Place and date:
Chennai, 23 July, 2023

For the issuing office:
DNV Business Assurance India Pvt. Ltd.

Iyer, Haritharan

Sundareswara

Manager - Product Certification

DNV

MATERIAL MANUFACTURE STATEMENT

Certificate No.: C85535 Rev. 0
Initial Certification date: 22 July, 2023
Validity: 22 July, 2030

This statement consists of 3 pages

This is to certify that the product(s)

Sand Castings

Manufactured by:

Shah Precast Pvt. Ltd. (Unit I)
E 35-36, Bannoli Road, MIDC, Kurnool, Sangli - 416436, Maharashtra, India.

has been reviewed / assessed with respect to:
THE REQUIREMENTS SPECIFIED IN NORSOK M-650 ED. 4 ON QUALIFICATION OF MANUFACTURERS OF SPECIAL MATERIALS AND FOUND TO COMPLY.

Applications/limitations:
See page 2 & 3
This Material Manufacture Statement to be read in full.
Reference to the part of this statement which may lead to misinterpretation is not permissible.

This certificate is valid for the following products:

ASTM A494 Grade CU5MCu*

Place and date:
Chennai, 23 July, 2023

For the issuing office:
DNV Business Assurance India Pvt. Ltd.

Iyer, Haritharan

Sundareswara

Manager - Product Certification

DNV

MATERIAL MANUFACTURE STATEMENT

Certificate No.: C75494 Rev. 0
Initial date: 18 December, 2024
Validity: 18 December, 2029

This statement consists of 3 pages

This is to certify that the product(s)

Sand Castings

Manufactured by:

Shah Precast Pvt. Ltd. (Unit I)
E 35-36, Bannoli Road, MIDC, Kurnool, Sangli - 416436, Maharashtra, India.

has been reviewed / assessed with respect to:
THE REQUIREMENTS SPECIFIED IN NORSOK M-650 ED. 4 ON QUALIFICATION OF MANUFACTURERS OF SPECIAL MATERIALS AND FOUND TO COMPLY.

Applications/limitations:
See page 2 & 3
This Material Manufacture Statement to be read in full.
Reference to the part of this statement which may lead to misinterpretation is not permissible.

This certificate is valid for the following products:

NORSOK M-630:2020 MDS N16 Rev. 5 ASTM A494 Gr. CW6MC UNS N26025

Place and date:
Chennai, 18 December, 2024

For the issuing office:
DNV Business Assurance India Pvt. Ltd.

Iyer, Haritharan

Sundareswara

Manager - Product Certification

NORSOK M650 — 4A / 5A

Duplex & super duplex

NORSOK M650 — 6A

Super duplex, heavy section

NORSOK M650 — CK3MCuN

Super austenitic (6Mo)

NORSOK M650 — CU5MCu

Nickel alloy (Alloy 825)

NORSOK M650 — CW6MC

Nickel alloy (Alloy 625)

Profile

13



Qualified for Critical Offshore Service

DNV-witnessed NORSOK M650 qualification for duplex, super duplex and nickel-base castings in demanding offshore and sour-service applications.

160 mm

Max qualified section thickness

GRADE	MATERIAL STANDARD	QUAL. THICKNESS	STATUS
Gr. 4A	ASTM A995 (CD3MN)	99 mm	Qualified
Gr. 5A	ASTM A995 (CE3MN)	99 mm	Qualified
Gr. 6A	ASTM A995 (CD3MWCuN)	160 mm	Qualified
Gr. CW6MC	ASTM A494 (Inconel 625)	160 mm	Qualified
Gr. Cu5MCuC	ASTM A494 (Incoloy 825)	160 mm	Qualified
Gr. Ck3MCuN	ASTM A351	160 mm	Qualified

Qualified thicknesses as per NORSOK M650 Qualification Test Records (QTR), witnessed and reviewed by DNV.



From Enquiry to Delivery

A structured, milestone-driven path from first enquiry to global delivery.

● Enquiry & Order

● Engineering

● Manufacturing

● Quality & Delivery





From Pattern to Dispatch — End to End

A fully integrated, in-house route from tooling to final inspection — every stage controlled under one roof.





Precision Patterns, In-House Control

Sound castings begin with sound tooling — pattern quality controlled end-to-end and scaled through a trusted external network.

- **Reconditioning:** in-house pattern upgradation & matchplating.
- **Inspection:** every pattern verified before production use.
- **Technology:** patterns built with the latest software & equipment.
- **Common tooling:** one pattern serves Steel, SS, Duplex & High-Nickel grades.
- **Capacity:** tied up with 10 external CNC/VMC pattern shops for new tooling.

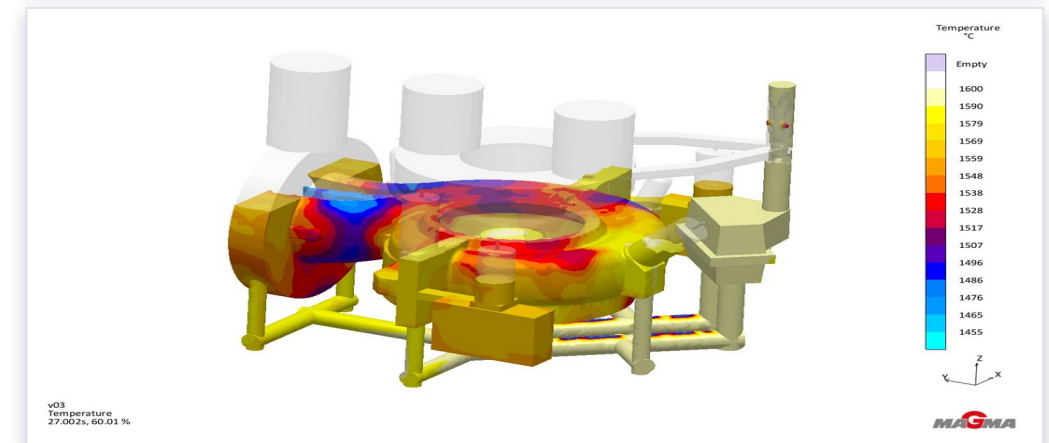
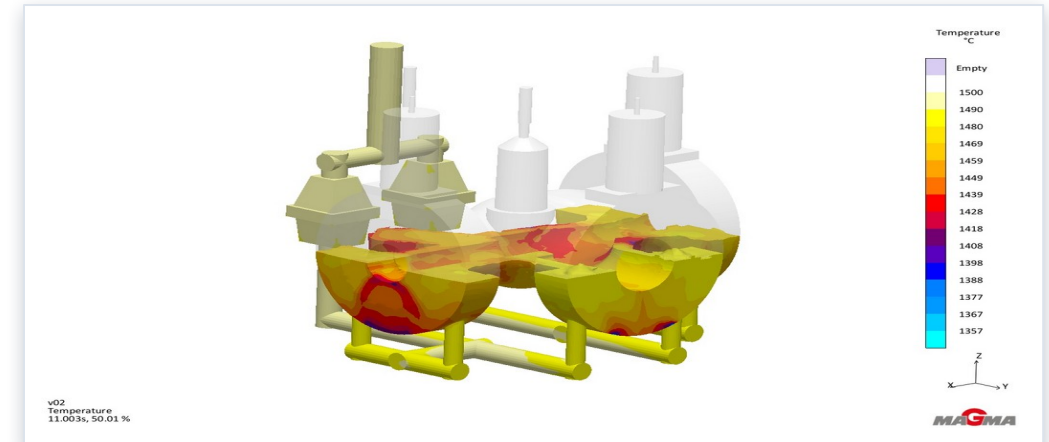




Simulation-Led Methoding

MAGMA (Germany) solidification simulation models every critical method before pour — castings right the first time.

- **Predictive:** MAGMA pinpoints problem areas & optimal feeding.
- **Niyama criterion:** predicts centreline & micro-shrinkage.
- **Sound methoding:** optimum yield with defect-free solidification.
- **Specialist grades:** Duplex, Super Duplex & High-Nickel methoding.
- **Expertise:** a highly experienced methoding & simulation team.





Clean, Controlled Metallurgy

Chemistry is confirmed twice and gases are purged before every pour — the foundation of consistent, certifiable castings.

- **Furnaces:** two induction furnaces of 550 kg & 750 kg capacity.
- **Temperature:** controlled by immersion-type pyrometer.
- **Chemistry:** pre-tap Spectro plus ladle Spectro for certification.
- **Purity:** argon purging controls dissolved gases & inclusions.
- **Charge discipline:** AOD billets for DSS with clean, uniform scrap.

550 / 750

kg furnaces

21-ch

Spectrometer



In-house induction melting with dual Spectro verification



Consistent Moulds, Superior Finish

A continuous no-bake moulding line delivers uniform sand quality and excellent surface finish while reclaiming 90% of sand.

- **Mixer:** OMEGA Spartan 305P continuous sand mixer (6 MT/h).
- **Consistency:** uniform sand-binder blend for high-precision moulds.
- **Green practice:** environment-friendly Alfaset binder, precisely dosed.
- **Sustainability:** 90% of moulding sand reclaimed & reused.
- **Range:** Box sizes 550×700 mm to 2000×2000 mm; min. casting can be moulded is 50 kg.



OMEGA continuous mixer with Alfaset no-bake binder

6 MT/h

Mixer output

90%

Sand reclaimed



Properties, Precisely Achieved

Calibrated furnaces and rapid, agitated quenching lock in the mechanical and corrosion properties every critical grade demands.

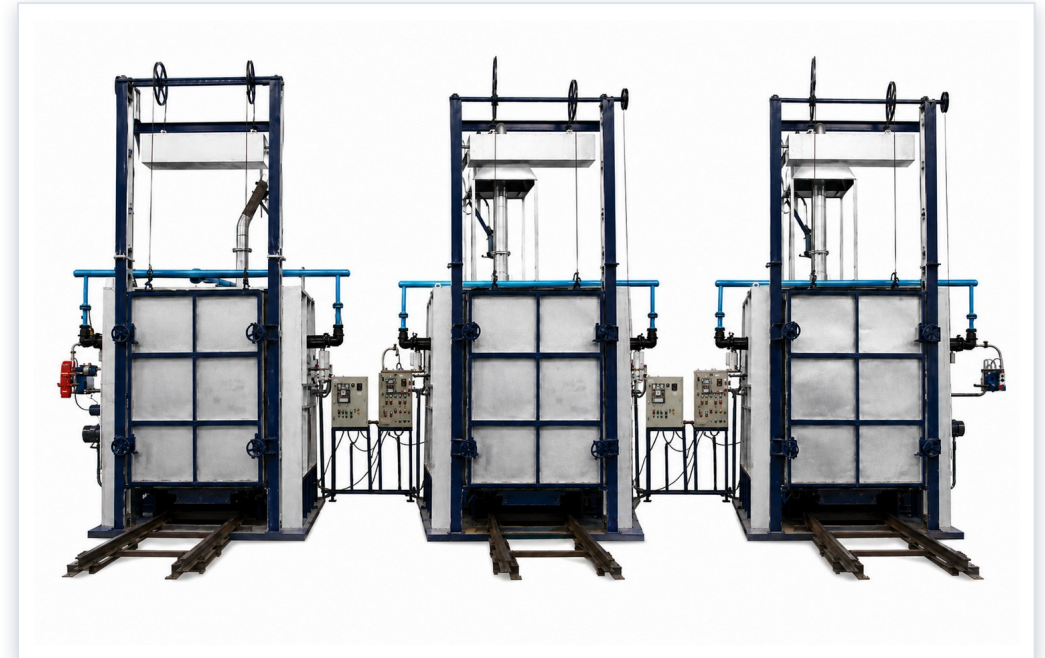
- **Furnaces:** three oil-fired furnaces, 1.5 T each, 2-point digital control.
- **Records:** paperless chart recorders for full traceability.
- **Gradient control:** multi-step cycles for Duplex & Super Duplex.
- **Calibration:** per ASTM A991 / API 6D Annex H & API 6A Append. M.
- **Quenching:** 1:15 water tank, vigorous stirring, cooling-tower control.

3 × 1.5 T

Furnaces

1 : 15

Quench ratio



Calibrated oil-fired furnaces with agitated quench



Chemical & Material Analysis

A NABL-focused laboratory for full alloy chemistry, PMI and ferrite control across Duplex and Super Duplex grades.



Optical Emission Spectrometer

21-channel Shimadzu with dedicated N₂ channel for Duplex & Super Duplex grades.



Positive Material ID

Hitachi X-MET8000 handheld XRF (PMI) for on-site alloy verification.



Ferrite Measurement

Fischer Ferritoscope for precise ferrite-content control.



Portable Hardness

On-casting hardness testing across large components.



Visual & Bore Inspection

Borescope and microscope for internal-surface assessment.



Calibrated Standards

MBH and BSA reference samples ensure traceable accuracy.



21 CH.

Spectrometer channels incl. N₂ for Duplex



Strength & Toughness

Universal Testing

TENSILE PROPERTIES

- Capacity — 20-Ton computerized UTM with extensometer.
- Properties — Yield, UTS, elongation and 0.2% proof stress.
- Standards — Tensile testing to international acceptance norms.



Charpy Impact

CRYOGENIC TESTING

- Range — V-notch impact from ambient down to -196°C .
- Control — Digital temperature controller for stable sub-zero baths.
- Analysis — Profile projector for precise notch verification.





Metallographic & IGC Testing Facilities

In-house metallography and corrosion testing across duplex, super duplex and nickel-alloy grades.

Metallographic Test

PHASE & FERRITE

- Phase testing — σ / χ / Laves evaluation with micro-photographs.
- Image analyser — phase balance & ferrite content per ASTM E562.

SSCC & HIC

SOUR SERVICE

- Carbon steel — SSCC per NACE TM-0177 & HIC per NACE TM-0284.
- Duplex / Super Duplex — SSCC per NACE TM-0177 @ 24 & 90 °C.
- Incoloy 825 (Cu5MCuC) — SSCC per NACE TM-0177 @ 24 / 90 / 120 °C.

Corrosion Testing

PITTING & IGC

- Ferric chloride — pitting resistance per ASTM G48 Method A.
- Phase / toughness — per ASTM A923-06.
- Crevice — ferric chloride corrosion per ASTM G48 Method B.
- Intergranular — IGC test per ASTM A262.



Non-Destructive Examination

Comprehensive radiographic and surface NDT, performed in-house and through qualified partners.



Radiography — Ir-192

Iridium-192 gamma radiography.

In-house



Radiography — Co-60

Cobalt-60 for thick-section castings.

In-house



Radiography — LINAC

Linear-accelerator RT for heavy walls.

Outsource



Film Digitization

Digital archival of radiographic film.

Outsource



Magnetic Particle

Wet fluorescent MPI for surface defects.

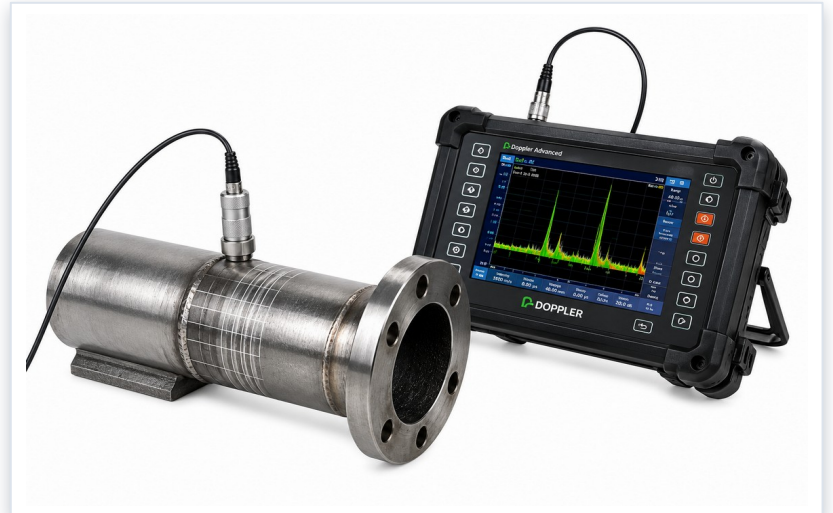
In-house



UT & LPI

Ultrasonic and liquid-penetrant inspection.

In-house



Certified NDE Personnel

Qualified & certified per ASNT TC-1A, ISO 9712 and CP-189.



Metallurgical & Corrosion Control



Metallography

σ / χ / Laves phase evaluation with image analyzer.



Ferrite Content

ASTM E562 point-count ferrite measurement.



Corrosion — IGC

ASTM A262 intergranular corrosion testing.



Pitting & Crevice

ASTM G48 / A923 and G48-B methods.



SSCC & HIC

NACE TM-0177 (24/90/120°C) & TM-0284.



Inspection & Docs

TPI Level 3.2 with DIN 1690 documentation.

FY 2025-26 REJECTION PERFORMANCE (Please see whether it is correct or not)

0.95%

Customer rejection (qty) • target 1%

0.92%

Customer rejection (weight)

1.8%

Internal rejection (qty) • target 2%

1.4%

Internal rejection (weight)



Two Integrated Manufacturing Units

Unit-I

Operating since 12 Feb 1998

Plot area 5,963 m²

Built-up 3,683 m²

2040_{MT}

Annual casting capacity (170 MT / month)

~300

Skilled & technical workforce

Unit-II

Operating since 12 Jun 2009

Plot area 4,050 m²

Built-up 1,250 m²

Monthly Capacity Allocation

- Pump castings — up to 100 MT per month.
- Valve castings — up to 70 MT per month.

MATERIAL HANDLING

10 MT crane ×1 · 5 MT cranes ×4 · 3 MT crane · Forklifts ×2 · 9 MT hydraulic handler



Precision Machining Centre

A fully integrated in-house machining facility delivering finished, ready-to-fit castings from 2" to 32" with certified dimensional accuracy.

- **5-axis & multi-axis CNC** — WiDMA 5-axis VTM, MAZAK HMC, Doosan & Schiess VTL, LMW VMC and CNC wire-cut under one roof.
- **CAM programming** — Mastercam 2026 drives complex tool-paths for intricate valve and pump geometries.
- **In-house metrology** — Trimos height gauges and bridge-type CMM verify every critical dimension.
- **Self-certification** — Approved to self-certify machined dimensions for key international customers.

2"-32"

Machined range

CMM

Verified



Accurate Make Bridge-Type CMM Machine

***Mastercam* 2026**



CNC Machining Fleet

A modern fleet of 5-axis, horizontal and vertical machining centres engineered for heavy, high-precision castings.



WiDMA VU1250

5-Axis VTM

Table Ø1250 mm • job 4000 kg • BT50



MAZAK 6800 NEO

Horizontal Machining Center (HMC)

Pallet 630 mm • Ø1050 mm • 10000 rpm • 43 tools



Jagdeep JVTM 1209

Vertical Turning Mill Center (VTM)

Table Ø1250 mm • job 5000 kg



LMW JV80

Vertical Machining Center (VMC)

X/Y/Z Axis 820×540×600 mm • job 800 kg • BT40



Doosan VTL

Virtual Turning Center (VTL)

Turn Ø32.68" • 50 hp • 2000 rpm



Schuess CNC VTL

Vertical Turning

Table Ø1600 mm • swing Ø1700 mm • FANUC Oi-TF



CNC Machining Fleet (Cont.)

A modern fleet of 5-axis, horizontal and vertical machining centres engineered for heavy, high-precision castings.



Cooper Make VTL (with DRO)

Virtual Turning Center (VTL)

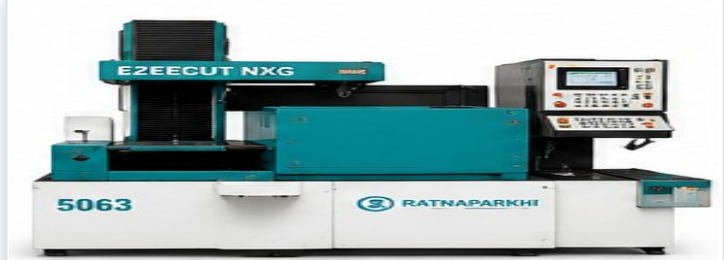
Table Ø1500 mm • Chuck Ø1500 mm



Hass Make VMC

4-Axis VMC

Travel 1270×508×635 mm



Ratnaparkhi NXG5063

CNC Wire-Cut

EZEECUT precision profiling



Honor Make VMC

Vertical Machining Center

Travel 800×400×500 mm • BT40 • 24 tools



Trident Make Hydro Testing Machine

Hydro Testing Machine

Pressure 0 – 300 bar • 160 Ltr. • Air Cooled



LMW LV55

Vertical Machining Center (VMC) 3-Axis

Travel 575×410×460 mm • BT40 • 20 tools

Other Machines



Conventional Machines like Lathe Machines, Panther Machines, etc. engineered for heavy, high-precision castings.



Conventional Lathe Machines



Conventional Lathe Machines



Cincinnati Universal Milling Machine



WMW Union Horizontal Boring Machine (HBM)



MORI SEIKI SL35B

CNC Lathe Machine

12 Stations Turret • Chuck 3 Jaw Hydraulic • 8 tools



LMW RIGI 25 Plus

CNC Lathe Machine

Travel 260x760 mm • Chuck Ø315 mm • 35 -3500 rpm



Sand Castings for Pumps & Valves

We cast the full range of valve and pump components — machined 2" to 32" to customer drawings and international standards.



Ball Valve Bodies

SEBV • SSBV • MSBV • TMBV



Globe Valve Bodies

Flange & Butt-Weld End



Butterfly Valve

Triple-Offset, Disc & Body



Control Valve

Body & Bonnet, Critical Service

COMPONENT TYPES

- ☐ Ball Valves (SEBV / SSBV / MSBV / TMBV)
- ☐ Globe & Control Valves
- ☐ Butterfly Valves (Triple-offset)
- ☐ Swing & Non-return Check Valves
- ☐ Plug Valves & Y-type Strainers
- ☐ Pump Casings & Impellers

2"-32"

Size range

**#150-
#2500**

Class / PN20-420

**15-650
kg**

Weight range



Sand Castings Components

A representative selection of valve and pump castings produced across carbon steel, stainless, Duplex and nickel-base grades.



Ball Valve Body



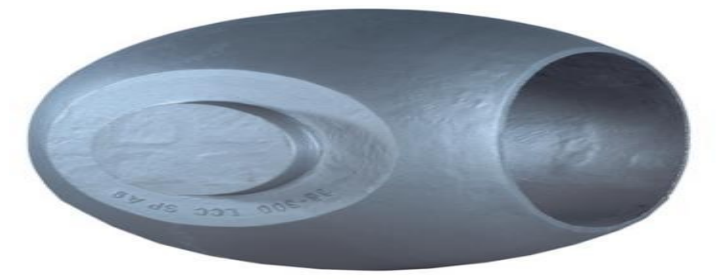
Ball Valve Body



Top-Entry Ball Valve



Control Valve Body



Globe Valve Body



Swing Check Valve

COMPONENT TYPES

Ball • Globe • Gate • Swing Check • Butterfly • Triple-Offset Butterfly • Plug • Control • Y-Strainer • Flowcell



Isolation, Control & Safety Service



Serving refinery, pipeline and offshore isolation & control valves

End-to-end valve castings across the full pressure spectrum — bodies, bonnets, discs, balls and connectors.

2"-20"

Nominal size

150-2500

Class / PN 20-420

15-650 kg

Weight range

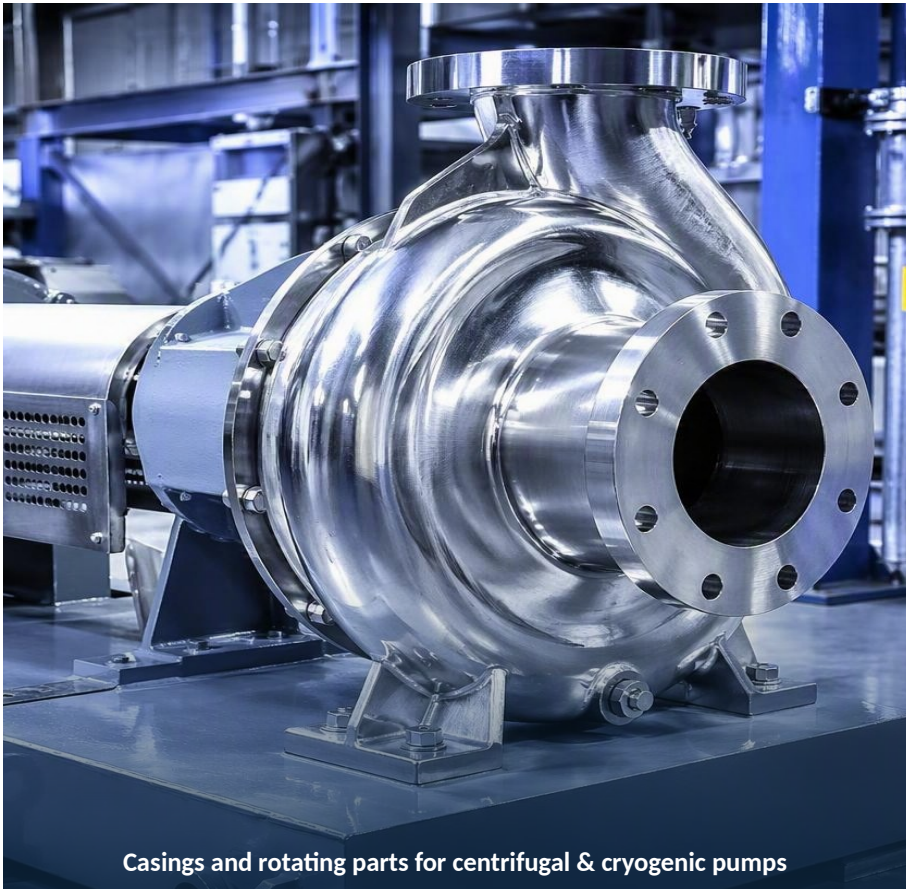
Valve Types Produced

BALL · BUTTERFLY · GLOBE · CHECK · CONTROL · PLUG

- Ball — SEBV, SSBV, MSBV, TMBV and top-entry, flanged & butt-weld end.
- Butterfly — Triple-offset, wafer and lug bodies with discs.
- Globe, Check & Control — Bodies and Bonnets to ASTM & DIN grades.
- Plug & Y-Strainer — Including double-block-and-bleed hub-end bodies.



Hydraulic Castings for Rotating Equipment



Casings and rotating parts for centrifugal & cryogenic pumps

Hydraulic castings for centrifugal, positive-displacement and cryogenic pumps used across process industries.

100 MT/mo

Pump capacity

50-60%

Of total output

2"-32"

Machined range

Pump Components

CENTRIFUGAL · MULTISTAGE · CRYOGENIC

- Casings & Volute — Single and multistage pressure casings.
- Impellers & Diffusers — Closed, open and bowl-type hydraulics.
- Bearing housings — Brackets, covers and stage pieces.
- Applications — Oil & gas, water, chemical and desalination duty.



Duplex, Super Duplex & Nickel-Base



Engineered for the most corrosive offshore and sour-service duty

Specialists in high-alloy metallurgy for extreme corrosion, cryogenic and high-integrity applications.

20%

Exotic-alloy share

12%

Duplex share

–196 °C

Impact tested

Alloy Families

DUPLEX • SUPER DUPLEX • NICKEL-BASE

- Duplex & Super Duplex — 1B, 3A, 4A, 5A and 6A (CD3MWCuN).
- Nickel-base — Inconel 625 / 825, Monel, Hastelloy & CN7M.

σ / χ / Laves controlled • NORSOK M-650 Ed. 5 (4A & 5A) approved by DNV



End Users of Our Pump & Valve Castings

Castings supplied to leading overseas and domestic pump & valve OEMs, EPC contractors and operators worldwide.

 ADNOC	 Tecnimont S.p.A.	 Reliance - Bechtel	 Chevron
 Saudi Aramco	 Ranhill Worley	 Chiyoda Corporation	 JGC Japan
 Qatar Energy	 Cairn - Vedanta	 Consolidated	 Fluor - Canada
 ONGC	 L&T Hydrocarbon	 Petrol Valve - Italy	 Fluxys
 PETROBRAS	 NESTOIL Ltd.	 P D Oman	 Total (France)
 Enel S.p.A.	 Bahrain Petroleum	 Petrofac	 Saipem
 Technip FMC	 Shell	 Nexen Petroleum	 NPEC U.A.E.
 McDermott	 Shell Sarawak	 Kuwait Oil (KOC)	 ADMA OPCO



Worldwide OEM Footprint

**Germany**

8 OEMs

Sulzer • Klaus Union • Müller • Xomox •
Samson

**Italy**

18 OEMs

Pompetravaini • Valbart • Pibiviesse •
Orion • Dresser

**USA**

2 OEMs

Xomox Chihuahua • Panametrics

**Russia**

4 OEMs

KU V-AXX • Penta-Arm • KVO-ARM •
Armalit

**Netherlands**

2 OEMs

Howden Thomassen • Control Seal

**United Kingdom**

1 OEM

Trelleborg Westbury

**Saudi Arabia**

1 OEM

Sulzer Saudi Pump Co.

**Spain**

1 OEM

Sulzer Pumps Spain

**South Africa**

1 OEM

Sulzer Pumps (South Africa)

**Belgium**

1 OEM

Truflo Rona s.a.

**Malaysia**

1 OEM

Mokveld Malaysia

40+

Overseas OEM partners



Trusted Across India

A strong home base of pump and valve OEMs spanning Maharashtra, Tamil Nadu, Gujarat and beyond.

Maharashtra

14 OEMs

Sulzer • KSB • Kirloskar Ebara • Wilo • Sundyne • Intervolve • Nirmal • PJ Valves

Tamil Nadu

2 OEMs

L&T Valves (Kanchipuram) • GE / Dresser India (Coimbatore)

Gujarat

1 OEM

SPX Flow — western India hub

Uttar Pradesh

1 OEM

Advance Valves Global — Noida

West Bengal

1 OEM

Pumpsense — Kolkata

19+

Domestic OEM partners

Serving India's leading flow-control OEMs across Maharashtra, Tamil Nadu, Gujarat, Karnataka & Uttar Pradesh — from single castings to fully machined, tested assemblies.



A Record of Excellence

Recognized by government bodies, certification agencies and long-standing customers alike & more awards.



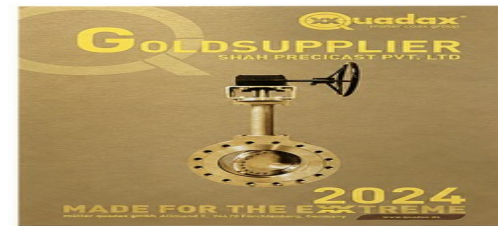
One Star Export House

Govt. of India — DGFT



Star Performer Award

EEPC — Export Performance
(Govt. of India Enterprise)



Gold Supplier Award

Muller Quadax GmbH



**Significant Contribution in
Special Grades Award**

L&T Valves Ltd



Challenging Grades Award

Special-alloy capability



Long Association Award

L&T Valves Ltd



Successful Businessman

Excellence in Supply Chain



Social Contribution

Community engagement



Continuous Capability Investment

Recently Completed

FY 2025-26

- Melting — Omega continuous sand mixer, 8 MT / hour.
- Machining — WiDMA 5-axis VTM commissioned.
- Machining — LMW vertical machining centre added.
- Turning — Honor vertical turning machine installed.
- Profiling — Ratnaparkhi CNC wire-cut added having capacity of 22 Bar to 700 Bar.
- Fettling — Shotblasting added.
- Accreditation — API 20A Compliance Certification.

Need to confirm both whether it is correct or need any changes in recently completed (FY 2025-26) and Planned (FY 2026-27)

Planned

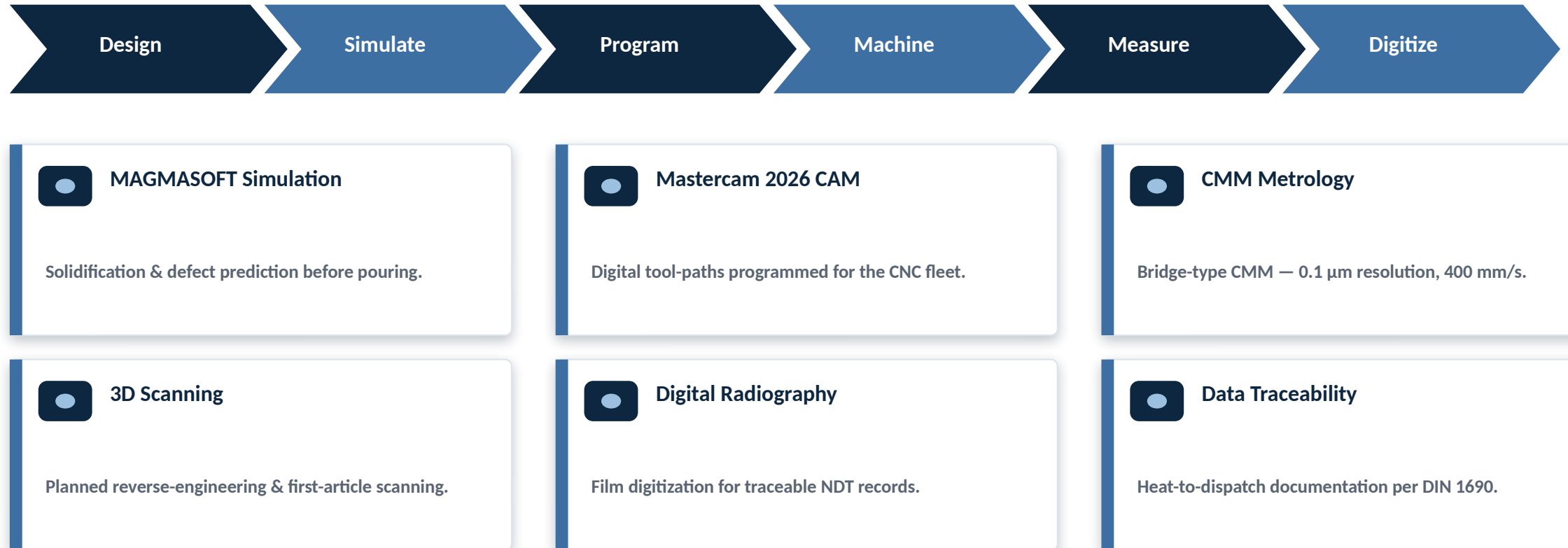
FY 2026-27

- Melting — 1.5 MT melting furnace.
- Heat treat — 3 MT / 5 MT heat-treatment furnaces.
- Machining — Shop expansion with ACE double-pallet HMC.
- Inspection — 3D scanner and RT enclosure (Ir-192 / Co-60).
- RT Enclosure — New RT Enclosure for Ir-196 & Co-60
- Accreditation — NABL Laboratory.



Industry 4.0 Digital Thread

An end-to-end digital thread links design, simulation, machining and metrology into a single traceable workflow.

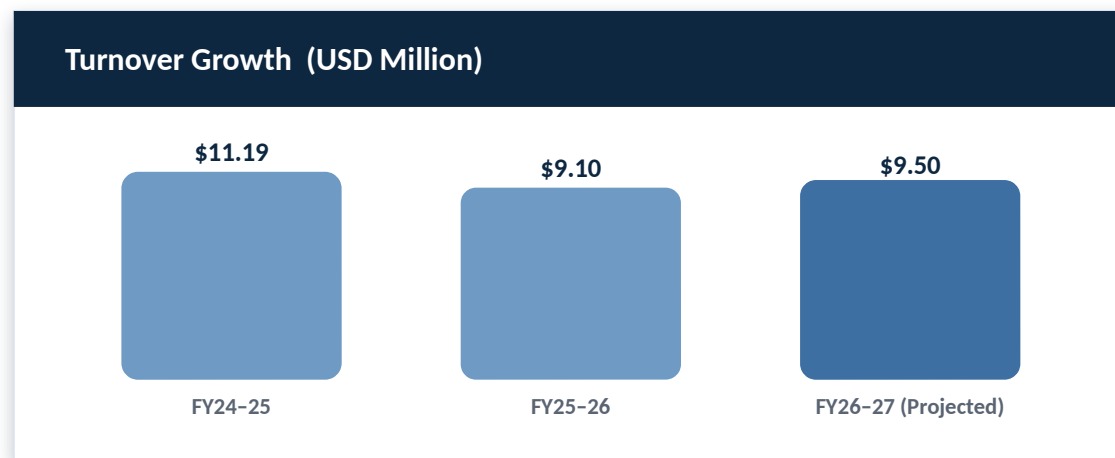




Sustained Growth & Investment

Now in its 29th year, Shah Precast continues to grow turnover, capacity and capability year on year.

**Need to confirm FY 26-27
Projected figure**



2040_{MT}
Annual casting capacity

29_{yr}
Years of production

Scale

- Monthly output — 170 MT with spare capacity reserved for special alloys and global orders.

STRATEGIC PRIORITIES — FY 2025-26 (Please see whether it is correct or not)

Grow exotic-alloy share

NABL Accreditation

Larger machining envelope

Higher-pressure testing 350 bar

New melting & heat-treat
furnaces



Environment, Safety & Community

Responsible foundry operations built on environmental care, workplace safety and community commitment.

Environment

- **Resource efficiency** — Continuous sand mixer improves sand reuse and reduces waste.
- **Low scrap** — Tight process control keeps rejection well below targets.
- **Recognition** — Contribution to Save Environment award.

Safety

- **Committed culture** — Environment & safety embedded across both units.
- **Recognition** — Workplace Safety award.
- **Controlled processes** — Melting, heat-treat and testing under strict SOPs.

Community

- **People** — ~300 skilled and semi-skilled jobs in the Sangli region.
- **Engagement** — Recognized for Social Contribution.
- **Longevity** — 29 years of stable regional employment.

0.95%

Customer rejection —
material efficiency

~300

People employed
across two units

THANK YOU

Let's build something exceptional together

Hope you will give us a chance to serve you.



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SHAH PRECAST PVT. LTD.
SAND-CASTING FOUNDRY

THANK YOU

Engineering Trust. Delivering Excellence.

Thank you for your time. We look forward to engineering trusted, sand-casting solutions for your most demanding applications.

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SCAN TO VISIT

