### Welcome To Malnad Alloy Castings Private Limited

### Est : 1983 Alloy Steel, Stainless Steel, Nickel Base Castings Manufacturer

# MALNAD GROUP COMPANIES

#### Malnad Alloy Castings Pvt Ltd since 1985

:Scope:

Manufacture & Supply of Raw, Machined and Hydro tested Castings in Ferrous, Nickel and Cobalt based alloys

#### Shimoga Precision Castings Pvt Ltd since 1996

:Scope:

Manufacture and Supply of Alloy Steel, Stainless Steel, Nickel Alloy Steel, Cast Iron and Cobalt Alloy Steel Castings By Investment and Sand Casting Process

#### Malnad Prime Machining Technologies since 2010

:Scope:

Manufacture of Precision Machined Components

Malnad Alloy Castings Pvt Ltd (Laboratory Division) since 2018

NABL Accredited Mechanical and Chemical Testing Lab

SHIMOGA We are located in DISTRICT MAP Theagun HAVER UTTARA Togarshi KANNADA Siralkoppa Induvialli, Syduru SHIKARPUR DAVANGERE Kappanahalli, Talguppe Carriapadar Channashettikoppa Chiradoni Sidlipura Koppa SHIVAMOGGA Kodachadri HOSANAGAR Histanahalli BHADRAVAT Agrahara, LEGENCE UDUPI TIRTHAHA National Highway Major Road Redway Basavani CHIKMAGALUR Dehiet Seundary **Unite Bound** Agumba Map not to Scal Cosyright @ 2014 www.mapeofindia.com (Updated on 17th hovember 2014) Malnad Alloy Castings Private Limited,. No 36A, Shimoga – Bhadravathi Industrial Area, Machenahalli, Nidige Post Shimoga - 577222

Website: www.malnadalloycastings.com

Karnataka, INDIA.

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# Management Contacts

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Prateek M Jois, Executive Director +91 966 315 5553 pj@malnad.co.in

Land Lines - (08182) 46141,246142,246143

### **Management Contacts**

Vynatheyan- Director Marketing +91 8861699975 vynatheyan@malnad.co.in

Abhiram J Bellur- Director Machine shop +91-8861002654 exportfollowup@malnad.co.in

Mahaveer Jain- Director Operations & QA +91-8861002642 mjain@malnad.co.in



#### **SINCE 1983**

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**Organisation Chart** 

### Vision & Mission

#### The Vision of our company is to

"Become global leader for the supply of finished cast components in wide range of materials with highly committed and socially responsible employees"

#### **Our Mission is to**

\*To meet the casting requirements of the country using latest state of the art-technology in wide range of materials at competitive cost. \*Provide stable employment and develop highly skilled technical manpower and develop wide vendor base.

\*Adopt environmentally sound and safe technology and create awareness on energy conservation.

\*Serve the community around through welfare schemes.

### Our Progress...

- **1985 Started with 175 KW furnace & 30 MT/Month capacity.**
- 1991 Addition of 250KW furnace & Capacity Enhanced to 100 T/Month.
- 1993 Well known foundry status from IBR.
- 1995 Implemented QMS & Certified for ISO 9001.
- 1996 Implemented integrated ERP system.
- **1998 Certified by AD 2000 MarkBlatt.**
- **1999 Enhanced Furnace capacity from 250 to 350 KW & 150T/Month capacity.**
- 2000 Qualified for PED Certificate.
- 2004 Direct Export Business Started.
- 2006 Enhanced Furnace Capacity from 350 to 450 KW increasing 275T/Month.

increasing production to

- 2006 Added Machine shop.
- 2007 Started LEAN activities.
- 2009 Approval by BV Marine Division.
- 2012 Added testing facilities like PMI, Height Master & Surface tester.
- 2012 Separated processing of stainless steel and carbon steel in different areas.
- 2013 Added 750KW Furnace increasing production to 625T/month

### Our Progress...

- **2013 MAGMA Simulation Software installed**
- 2014 Lloyds Foundry Approval.
- 2015 Certified EMS-OHSAS; DNV Foundry Approval
- 2015 New building 31360 sq foot for processing of above 500kg castings
- 2015 Mould Carousel 8 Station semi automatic system
- 2016 Fork Lift for Pattern Movement
- 2016 NORSOK Certification for 4A, 5A and 6A Grades
- 2016 Upgraded ISO 9001-2008 to 2015 Version
- 2016 Solar Roof Top Cells 100 KW Capacity Installed
- 2016 25MT Shake Out Machine With Material Handing EOT Crane 25 /10 MT
- 2016 Mechanized HT Quenching System to facilitate quenching within 50 sec.
- 2016 IBR Well Known Foundry status & certified for Carbon & Alloy Steel up to 2400 Kg single piece.
- 2017 Installed 3MT Capacity Table type Shot Blasting Machine.
- 2017 ISO 14001-2004 upgraded to 2015 Version.
- 2018 Thermal Reclaimation plant
- 2018- NABL approved Mechanical & Chemical Lab
- **2018- Automatic Scrap Baling Machine**

### Our Progress...

- **2019- Introduced Corrosion testing In house**
- 2019- Moved in house machine shop to single roof
- **2019-** developed bigger sized machined castings up to 10inch at our sister concern
- 2019- highest business
- 2020- renewal and addition of grades as per PED requirements
- 2020- Upgraded OHSAS 8001 to ISO 45001
- 2020- Successfully completed 2<sup>nd</sup> party Covid Preparedness Audit by TUV
- 2020- successfully completed Energy Audit by Bureau of Energy Efficiency
- 2020- In house radiography facility started sub contracted to Sitas
- 2021- Added new heat treatment furnace
- 2021- Procured Minitab Software for statistical Analysis of various parameters
- **2021-** Procurement of Energy Management software and air Manager to compressor

### **Our Strength**

- State of Art Omega Semi Automatic Mold Carousal for consistent mold quality for small & medium casting production with 120 molds/shift capacity.
- Mechanized Quenching system for Heat treatment Process.
- \* 10 WPS-PQR Certified Operators for various grades witnessed by TUV, Lloyds & DNV.
- Qualified weld inspector is available
- I0 Qualified Welders for handling the welding activities of various grades
- More than 15,000 Patterns with 6000 patterns live!. Traceability through ERP maintained location system and Product code.
- Exclusive storage arrangement for preservation of patterns.
- **50** to 60 New Products being developed every month.
- More than 2500 fully machined cast components exported / month.





#### 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

**Turnover in Cr INR** Before GST and as per Indian financial calendar



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### **Certificates & Awards**

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018
- Well Known Foundry Status IBR **Since 1983**
- PED
- **AD MERKBLATT**
- Lloyds, Bureau Veritas & DNV **Foundry Approval**
- **NORSOK Process Approval for** 
  - 4A, 5A & 6A
- **Export Excellence Award By Govt.**

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Of Karnataka

# **Product Mix**

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Valve components
Pump components
Hydraulic Components
General Engineering
Turbine component
Defence Components



Ball Valve	2" to 30"	Class 150 to 1500
Globe Valve	0.5" to 12"	Class 150 to 900
Gate Valve	0.5" to 12"	Class 150 to 900
Check Valve	0.5" to 12"	Class 150 to 900
Control V a I v e	0.5" to 16"	Class 150 to 2500
Butterfly Valve	2" to 40"	Class 150 to 1500
Diaphragm V a I v e	2" to 12"	Class 150 to 300
Piston Valve	2" to 8"	Class 150 to 300
Double disc	2" to 24"	class 150 to 300
Check Valve	2 " to 12 "	class 150 to 300

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# **Customer Base**



# **Major Customers**



### **Foundry Capacity**

- Total Capacity 625 MT/Month. Utilized Capacity 450 MT/Month (in view of recession in market).
- Maximum Single Piece Weight We Can Produce is 2400 Kgs.





#### 2700 Kg Casting Exported from Malnad

(mainty)

1/9/2020

#### 2400 Kg Butterfly Valve



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# **Typical Lead Time**

SECTION	TIME REQUIRED
Pattern Development	3 weeks
Sample Castings (Including Radiography Test)	45 Working Days (From the date of receipt Pattern ready for molding)
Sample Machining	3-4 Weeks (From Receipt Of Castings)
Production Castings	45 Working Days
Production Machining	75 Working Days

All the above lead time depends on the size & complexity of the castings.

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# **Material Of Construction**

#### Carbon Steel

ASTM Grades WCB, WCC, LCB, LCC,

#### Alloy Steel

C5,C12,C12A,WC6,WC9,

#### Stainless Steel

CF8, CF-8C, CF8M,CA-15,CD4MCU,CD4MCUN, Grade 4A, 5A, & 6A, CN7M,CF-3,CF-3M, CG8m,CA6NM, SS420. CA40, SS410, SS430, 17.4PH

#### Nickel Base Alloys

CW12MW, CW2M, CW6M, CW6MC, CU5MCuC, N7M, N-12MV, Monel All the above grades corresponding to DIN; JIS; BS, GHOST, Indian Standards and Customer Specified grades.

# Pattern Methoding And Mounting

### Magma Simulation

### Pattern Mounting





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### Manufacturing - Molding



#### **NO BAKE SYSTEM**

Continuous Mixer	12MT/Hour	1no
Continuous Mixer	6MT/Hour	2nos
Continuous Mixer	1.5MT/Hour	2nos
Batch Mixer	150Kgs	2nos
Mechanical Sand Reclamation	4MT/Hour & 8MT/Hour	1no each
Thermal Sand Reclamation	1 MT/Hour	1no

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# Manufacturing - MoldingCore MakingMold Coating





# Manufacturing - Melting

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### Medium Frequency Induction Furnaces

750 KW	3000 Kg & 2000 Kg Crucible
450 KW	1500 Kg & 1000 Kg Crucible

175 KW 300 Kg & 150 Kg Crucible

One Crucible is standby in all the above cases.



### Manufacturing – Post Pouring

- Shot Blasting Machine
- 1MT hook type-1 No5MT hook type-1 NoShot blasting machine-2 Nos.Table type 1 MT-2 Nos.Table type 3 MT-1 No
- Aluminum grit blasting Machine 750 Kg - 2 Nos. Room Blast - 2 Nos.
- Pedestal grinding Machine 3HP
- Swing frame
- Grinding Hp 4 Nos. Flexible shaft with variable Speed 2.5 HP - 25 Nos. Subcontracting Facilities: 3 Groups within the campus with capacity 20 & 80 MT/Month. 6 Subcontractors outside with total capacity 350 MT/Month

- 1 No



### Manufacturing – Heat Treatment 3 & 7.5 Ton Furnaces System

Furnace Name	Capacity (KW)	Tonnage capacity
HTA	100	2.5 Tones
HTB	60	2 tones
HTC	100	3 tones
HTD	100	4 tones
HTE	40	1 tone
HTF	150	7 .5 tones
HTG	15	250kg

All 7 furnaces are Electric PLC Controlled 2 Water Quenching facilities with 60000 & 75000 liters with agitation and cooling system.

All furnaces are validated as per API ; NORSOK in the presence of external agency

#### Malnad Alloy Castings Pvt Ltd (Laboratory Division)



#### NABL ACCREDITATION FOR CHEMICAL AND MECHANICAL LAB

#### Chemical Tests

- × Optical Emission Spectrometer
- × Intergranular Corrosion test
- Pitting Corrosion test

#### Mechanical Tests

- × Tensile strength
- × Yield Strength
- × 0.2% Proof Strength
- × % Elongation
- × % Reduction in Area
- Brinell Hardness (HBW 10/3000)
- × Bend Test (Root; face; side )
- X Impact Test (Charpy "V")
- Inclusion Rating
- Micro Examination Graphite Flakes/ Nodules Type and Size, Distribution Characteristics and Matrix Analysis
- × Determination of Volume Fraction of Phase

### Spectro Analyzer with Three Base Metal - Iron, Nickel and Cobalt with 25 elements including Nitrogen And Oxygen.



od) or technique used
M E415:2015 / L:1998 (Ra 2012)
E1086:2014 /IS L998 (Ra 2009) / D/VAL/Fe/2017
/I E 3047:2016 D/VAL/Ni/2017





Group of products, materials or items tested	Specific tests or types of tests performed	Specification, standard (method) or technique used	Range of testing/ Limit of detection (%)	Measurement Uncertainty (± ) (%)
Duplex Stainless Steel	Intergranular- Corrosion Test– Method A	ASTM A923: 2014	Qualitative	NA
Stainless Steel Wrought / Cast	IGC Practice B	ASTM A 262-2015	upto 100 mils/year	4 mils/year @ 27 mils/year
Products	IGC Practice E		Bend Test (Visual) Qualitative	NA
Wrought Nickel Rich Chromium Bearing Alloys	. IGC Method A	ASTM G 28 – 2002 (Ra 2015)	0.0001 – 10.0 mm/month	0.0006 mm/month @ 0.0021 mm/month
Stainless Steels	Pitting corrosion Test – Method A	ASTM G 48 – 2011	$0.1 - 4.0 \text{ g/m}^2$	0.17 g/m <sup>2</sup> @ 0.60 g/m <sup>2</sup>

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Group of products, materials or items tested	Specific tests or types of tests performed	Specification, standard (method) or technique used	Range of testing/ Limit of detection	Measurement Uncertainty (±)
	Tensile strength		100 – 1500 N/mm² (or) MPa	9 N/mm <sup>2</sup> @ 554 N/mm <sup>2</sup>
Ferrous & Non	Yield Strength	ASTM A370-2017 ASTM E8/8M- 2016 IS 1608-2005 (Ra	100 – 1500 N/mm² (or) MPa	9 N/mm <sup>2</sup> @ 324 N/mm <sup>2</sup>
Ferrous Metals	0.2% Proof Strength	2011) ISO-6892 Part 1- 2016	100 – 1500 N/mm² (or) MPa	7 N/mm <sup>2</sup> @ 448 N/mm <sup>2</sup>
ncludin Wold	% Elongation	2017	1 – 80 %	2.1 % @ 35 %
Aetals	% Reduction in Area		1 – 80 %	1.4 % @ 67 %
	Bend Test	ASTM A370-2017	Mandrel diameter 12 mm – 50 mm Qualitative	NA

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Group of products, materials or items tested	Specific tests or types of tests performed	Specification, standard (method) or technique used	Range of testing/ Limit of detection	Measurement Uncertainty (±)
Ferrous & Non Ferrous Metals ncluding Weld Metals	Brinell Hardness (HBW 10/3000)	ASTM E10-2017 IS 1500 Part 1- 2013/ ISO – 6506:1-2005	100 – 400 (HBW)	4 HBW @ 154 HBW & 7 HBW @ 202 HBW

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#### Calibrated using NIST USA samples

Group of products, materials or items tested	Specific tests or types of tests performed	Specification, standard (method) or technique used	Range of testing/ Limit of detection	Measurement Uncertainty (± )
Ferrous & Non Ferrous Metals (Including Weld Metals & All Weld Metals Like Plates, Rods, Pipes Etc)	Impact Test (Charpy "V")	ASTM E23 – 2016 ASME Sec IX - 2017	4 – 300 Joules (Room temperature to minus 196°C)	6 Joules @ 84 Joules (-46°C)

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Group of products, materials or items tested	Specific testsor types of tests performed	Specification, standard (method)or technique used	Range of testing/ Limit of detection
Metals And Alloys (Ferrous & Non-Ferrous)	a. Micro Structural Characterizatio n	ASTM E3: 2011 (RA 2017) ASTM E407-07 (RA 2015) ASM Metals Hand Book Vol. 9: 2004	50 x to 1500 x (Qualitative)
Steel & Stainless Steels	a. Inclusion Rating	ASTM E45: 2013	100 x (Qualitative)
Grey Cast Iron and S.G. Iron Products	a. Micro Examination Graphite Flakes/ Nodules Type and Size, Distribution Characteristics and Matrix Analysis	ASM Metals Hand Book Vol. 9: 2004 ASTM A247: 2016	50x,100x,200 x, 250x, 400x,500x, 800x, 1000x, 1500x (Qualitative)

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# NDT Testing Facilities



Magnetic Particle Inspection

➤ Ultrasonic Test

➢ Die Penetrate Test,

>RT With Iridium 192 And Cobalt 60 Source (Upto200 mm Thickness) Available Within 300 Meters.

>5 Qualified NDT Level II Personnel Including 1 NDT Level II As Per EN Standard.

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### **Quality/Testing Facilities**

#### 0.50" Flow Bore Casting

USB MAGNIFICATION ENDOSCOPE 12MM (DTI-UEM001)



12mm (Dia) Camera head
Optical Magnification 1x ~ 500x
Flexible Cable (77cm)
Adjustable White LED Lights
Waterproof Level: IP67
Built-in Snapshot Button
Powered by USB (2 Meter Wire)

2.4' VIDEO BORESCOPE (DTI-VB001E/DTI-VB001RE)



- 2.4 TFT/LCD Monitor
- 10mm (dia)Camera head
- Detachable Camera Cable (1 Meter)
- 4 Adjustable White LED lights
- Photo/Video Recording (VB001RE)
- Waterproof level: (IP67)
- Micro SD/TF card for storage
- Powered by 4xAA batteries
- Accessories included: Hook, Mirror, Magnet

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### **Other Testing Instruments :-**

- Ultrasonic Thickness Gauge
- PMI
- Digital Poldie Hardness Tester
- Ferrito Scope
- Radio Active Contamination Detector
- Digital pH Meter
- Digital Lux meter; Sound meter; Tachometer
- Casting Comparator From Steel International France
- Infrared Temperature measuring instruments 500 °C & 1600 °C

### **Thermal Reclaimation Plant**



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# Web Access To Customers

- Website address: <u>www.malnad.co.in (59.90.137.114)</u>
- Customers will be given with unique login id & Password
- Data Available: Order Status, Test Certificates (3months)
   Dimension Ins Report, NDT Reports & Pattern List
- Automated mail generation is developed to inform the suppliers the receipt of the material against our PO

# On Going Projects-2021-22

- API 20A Approval for Foundry
- Energy Monitoring Software procurement
- Dormitory facility for workmen
- 100% Covid Vaccination to all the employees

### **Planned Projects**

- Energy Management System
- Rain water harvesting

# **EMS** Measures

- Bio Diesel as a Replacement for Petroleum Diesel
- Transparent sheets in order to avoid electric lights in day time
- Roof Top Solar Cell with 100KW capacity
- AED for medical emergencies
- CETP of capacity 25000 liters installed
- RO plant having capacity of 1500lts/hour capacity has been installed
- Vermiculture compost with canteen and paper waste

100 KW Roof top static solar cell installed in hall number 7



RO plant 1500lts/hour capacity 50+ Plants planted Across The Company Compound





### **Reducing Carbon foot Print**

- Currently we have used 150 liters of bio diesel/month hence avoiding 396kgs of CO2 generation/month
- Roof top Solar cell of 100kW capacity in our premises on an average generated 96826kWh of electric energy in last one year. Hence avoided 79397.32 kgs of Co2 in last one year.
- Thermal Reclamation plant sand re-cycle up to 90% hence avoiding the landfills causing greenhouse gas effect and diesel consumption for the transportation of these waste sand there by avoiding 50.16 kgs of Co2 emission each day due to transportation of sand
- Air Manager for management of Air compressor working we have 6 air compressors 20997.79kgs of Co2 emission by reducing electricity usage for compressor in last 6 months

### **Reducing Carbon foot Print**

- We have started vermicompost to degrade the canteen waste; paper waste; wooden saw dust which diverts organic materials from landfills where they would break down and be emitted into the atmosphere as methane – an extremely potent greenhouse gas.
- We have planted 50 plus trees as already stated above which after 5 years each matured tree will have a capacity of absorbing 12 kgs of Co2 annually and 50trees on an average will absorb 600 kgs of Co2 every year



### **Few Engineering Components**



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## SHIMOGA PRECISION CASTINGS PVT LTD



# Our Progress

- 1996 Start up of Production .
- 2001 Started ERP
- 2002 ISO 9001 Certification.
- 2008 Added new building for shell activity
- 2009 Started Wax formulation in house
- 2010 Started Manufacturing of Ceramic cores
- 2013-14 7.8 Crore sales(INR)
- 2014-15 15 Crore sales (INR)
- 2018-19- upgradation of HT facility
- 2019-20- Upgradation of Shelling activities
- 2020-21- Certified for PED, ISO 14001, ISO 45001
   SHIMOGA PRECISION CASTINGS PVT LTC

1/9/2020

### Facility Details

- Total Installed Capacity 40MT per Month.
- Utilized Capacity 25 MT per Month.
- Single piece we can pour up to :40 Kgs
- Experts in-Steam Trap, Control Valve components
- Special grades: Stellite-6,Stellite-21,NNRD2,Monel-M35, Ultimate Alloy, Duplex steel apart from standard Austenitic, Martensitic Steels

## SHIMOGA PRECISION CASTINGS PVT LTD

## Various Stages Of Investment Casting

wax pattern

After 2nd dipping

Alluminium Die

After 3rd dipping

tree assembly

Shell before heating

after 1st dipping

castings

### SHIMOGA PRECISION CASTINGS PVT LTD

## **Customer Base**







### Investment Castings

1030578

1/9/2020

### Manufacturing Experience

Ball Valve	15MM TO 25 MM	Class 150 to 300
Globe Valve	0.5" to 2 "	Class 150 to 900
Gate Valve	0.5" to 2"	Class 150 to 900
Check Valve	0.5" to 2"	Class 150 to 900
Control Valve	0.5" to 3"	Class 150 to 2500
Butterfly Valve	2" to 4"	Class 150 to 1500
Diaphragm Valve	Upto 2"	Class 150 to 300
Piston Valve	Upto 2"	Class 150 to 300
Double disc Check Valve	2" to 4"	Class 150 to 2500

### SHIMOGA PRECISION CASTINGS PVT LTD

### MPMTPL

#### MALNAD PRIME MACHINING TECHNOLOGIES PVT. LTD.

PLOT NO. 21 B & C. SHIMOGA- BHADRAVATHI INDUSTRIAL AREA, MACHENAHALLI. 577-222 AN ISO 9001:2015; ISO 14001:2015; ISO 45001:2018 CERTIFIED COMPANY



#### WHO ARE WE?

- The Launch of the unit was incorporated in the year 2012.
- We started off as a sub-vendor to our parent unit **Malnad Alloy Castings Pvt. Ltd.** by machining the parts as per drawings provided.
- We have been certified for converting Raw products into finished goods with high precision and Quality.
- Now we have direct customers, sub-vendors of our own, Providing customized solution to our business
  partners is our strength.
- we believe in integrating all operations under one roof.
- We do all the necessary value addition and reduce the burden of follow up for Our customers.
- To Achieve the goal we aspire we have both conventional and Non Conventional methods of Machining with highly skilled operators.
- We are Certified For ISO 9001:2015, ISO 14001:2015, OHSAS 45001:2018

### **QUALITY POLICY**

- We at Malnad Prime Machining Technologies Private Limited are committed to meet our customer expectations by providing consistent quality in processes and products in the "Manufacture of Precision Machined Components"
- Leadership has reaffirmed its commitment to the customers and to other stake holders,
- To meet their needs and expectations to their continued satisfaction.
- To Satisfy applicable requirements.
- To Continually improve Quality Management System in this policy.
- We plan to achieve this through:
- Identifying customer needs and communicating the same within the Organisation.
- Effective implementation of the Quality Management System.
- Delivery of Products to customers on time as per their requirement.
- Focusing on Employee development by Providing appropriate and relevant training.
- Fostering an environment of Continual improvement of our processes and products with a view towards achieving customer satisfaction.



#### Environmental and Occupational health and safety Policy

We at Malnad group of companies are committed to implement and enhance effectiveness of Environmental, Occupational health and safety management systems. Towards this endeavour we will:

- Comply with compliance obligation, legal and other requirements related to Environment and Occupational health and safety relevance to organization product and processes.
- Environment Protection, prevent pollution by conservation of resources and minimization of wastes through reuse, recycle and optimization.
- Prevent injury, ill health, provide safe work environment, eliminate, substitute hazards by ensuring proper controls, monitoring measurement of OHS performance
- Continually improve EHS performance through adoption of upgraded processes, technologies and best practices.
- Improve EHS performance through EHS Objectives, programmes, monitoring-measurement, consultation and participation of workers, interested parties, training and awareness of EHS requirements

Date: 1th June 2020

Sd:-Y.V. Madhukar Juis Managing Director



#### MANAGING DIRECTOR'S MESSAGE.



- We have seen our customers sub-contracting operations at different places, regions/locations, it is tough to consolidate and get the part to their required condition. This takes a lot of follow up and precious time is lost in gathering information and the part travels a lot of places to arrive at the customer end.
- We wish to provide all services under one roof, the parts leaving our shop should be utilized directly into assembly line or should be used as a consumable at end customer place. A one stop shop for all the needs of the customer is our main focus and we believe by offering the best in class quality and affordable prices we can be the best choice there is in our field.

#### **PRODUCTION MACHINERY**





#### • **CONVENTIONAL MACHINERY**

MACHINERY	MAKE	QTY
BOMBAY LATHE	KIRLOSKAR	2
MINI BOMBAY LATHE	KIRLOSKAR	3
DEAN SMITH LATHE	DEAN SMITH & GRACE	2
HERBERT 9C 90 LATHE	KIRLOSKAR	1
CHINA LATHE	TENGZHOU	1
GEAR HEAD LATHE	KIRSLOSKAR	1
BELT DRIVEN LATHE	KIRLOSKAR	1
LIGHT DUTY LATHE	RAJAN	2
RADIAL DRILLING MACHINE-1	CINCINATTI	1
RADIAL DRILLING MACHINE-2	MAAN	1
RADIAL DRILLING MACHINE-3	BATLIBOI	1
MANUAL MILLING MACHINE	BFW	2

#### NUMERICAL CONTROL MACHINERY

MACHINERY	MAKE	NO. OF MACHINES
HMC	MAZAK	1
VTL-650	HWACHEON	1
VTL-550	HWACHEON	1
VTL- 40	ACE	1
VTL- 30	ACE	1
CNC (QUICK TURN)	MAZAK	1
CNC	GALAXY	1
VMC	HASS	2
VMC	MAZAK	1
LT-30	ACE	1



### HMC - MAZAK

MACHINE HISTORY CARD		
MACHINE NAME	НМС	
MAKE	MAZAK	
INSTALLATION DATE	12-10-2014	
BED SIZE	X:730MM Y:730MM Z:810MM	
MACHINE NO	MP005	
TOOL HOLDER CAPACITY	40NOS	
HOLDER SIZE	95MM	
KVA	65.5KVA	





#### **VTL - 650**

#### MACHINE HISTORY CARD MACHINE NAME VTL-650 MAKE HWACHEON

INSTALLATION DATE	12-10-2014
BED SIZE	X:350MM Y: Z:750MM
MACHINE NO	MP003
HOLDER SIZE	50MM
KW	36 KW
TOOL HOLDER CAPACITY	12NO





#### **VTL - 550**

MACHINE HISTORY CARD		
MACHINE NAME	VTL-550	
MAKE	HWACHEON	
INSTALLATION DATE	12-10-2014	
BED SIZE	X:350MM Y: Z:750MM	
MACHINE NO	MP003	
HOLDER SIZE	50MM	
KW	36KW	
TOOL HOLDER CAPACITY	12NO	





### **CNC - MAZAK**

MACHINE HISTORY CARD		
MACHINE NAME	QUICK TURN SMART	
MAKE	MAZAK	
INSTALLATION DATE	12-10-2021	
BED SIZE	X:330MM Y: Z:450MM	
MACHINE NO	MP004	
HOLDER SIZE	50MM	
TOOL HOLDER CAPACITY	8 NO	
KVA	28.1KVA	





### **CNC - GALAXY**

MACHINE HISTORY CARD		
MIDAS CNC GALAXY		
GALAXY		
01.05.2020		
X:320MM Y: Z:400MM		
MP042		
50MM		
8 NO		
25KVA		





#### VMC - HASS

MACHINE HISTORY CARD	
MACHINE NAME	VMC-1
MAKE	HASS
INSTALLATION DATE	12-10-2014
BED SIZE	X: 762 mm Y: 406 mm Z: 508 mm
MACHINE NO	MP006
TOOL HOLDER CAPACITY	12NO





### VMC - MAZAK

MACHINE HISTORY CARD	
MACHINE NAME	VMC-MAZAK
MAKE	MAZAK
INSTALLATION DATE	12-10-2014
BED SIZE	X:560MM Y:430MM Z:510MM
MACHINE NO	MP008
HOLDER SIZE	44.25MM
KW	52.5KW





#### **VT-40**

MACHINE HISTORY CARD		
MACHINE NAME	VTL-40	
MAKE	ACE	
INSTALLATION DATE	27-08-2020	
BED SIZE	X:984MM Y: Z:600MM	
MACHINE NO	MP072:	
HOLDER SIZE	60MM	
KVA	47KVA	
TOOL HOLDER CAPACITY	12NO	





#### **VT-30**

MACHINE HISTORY CARD		
MACHINE NAME	VTL-30	
MAKE	ACE	
INSTALLATION DATE	18-08-2020	
BED SIZE	X:984MM Y: Z:500MM	
MACHINE NO	MP069	
HOLDER SIZE	60MM	
KVA	48KVA	
TOOL HOLDER CAPACITY	12NO	





#### LT-30

MACHINE HISTORY CARD	
MACHINE NAME	LT-30M
MAKE	ACE
INSTALLATION DATE	18-08-2020
BED SIZE	X:315MM Y: Z:500MM
MACHINE NO	
HOLDER SIZE	60MM
KVA	40KVA
TOOL HOLDER CAPACITY	12NO





### **MATERIAL HANDLING MACHINERY**


#### **SCISSOR LIFT**



#### **HAND PALLET**



#### **ELECTRIC STACKER**



#### OVER HEAD CRANE





#### **MALNAD PRIME GALLERY**

## **Drilling Machines at MPMTPL**

## Shopfloor Divided as per Cell Wise





**Material Inward Area** 







# Dedicated Deburring Yard for Size Wise

# Hydro Test Rig- 20MT, 40Mt and 100 MT





Dedicated Jigs and Fixture Storage Area







## Phosphate Components

## In House DP Testing Facility





**Powder Coated Components** 







### In House CMM Facility



Laser Etching Machine





#### **COMPONENT IMAGES (Pumps)**





PUMP ASSEMBLY AT MPMTPL



### **Bearing Housing**



Adapters

PUMP COMPONENTS DEVELOPED AT MPMTPL

Impeller







0.630







Foot





Impeller

**Reverse Vane Impellers** 





#### INVESTMENT CASTING PUMP COMPONENTSDEVELOPMENTS AT MPMTPL



# **Impeller Fixture Development In House**



Pump Casing









# **Oxygen Service Flange Body**



# **Oxygen Service Hub End Bodies**



MK1 Series Flange Body





#### **COMPONENT IMAGES (Turbines)**

### **Cover Casing**

## Steam End Casing





### **Cover Casing**



.







#### **COMPONENT IMAGES (Automotive)**

## **Automotive Shaft**

Clevi s





Clevi s

**Cylinder Bottom** 







#### **IMAGES (Infrastructure and Environment)**



Newly Inaugurated Building with Training Hall facility and Accommodation for Employees



Newly Inaugurated Canteen at Machine Shop



World Environment Day Celebration-2021



#### **Contact Information**

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1/9/2020

### Thank You



**SINCE 1983**