





Turbo Cast (India) Pvt. Ltd.

Join India's First Indigenous Investment Casting foundry exclusively for Aerospace, Defence & Medical application



Turbo Cast (India) Pvt.Ltd.





A World Class Investment Casting Foundry

AS9100 Certified Investment Casting Foundry





History

4 1995

We established M/s **Inova Cast** with well-equipped modern manufacturing facilities for manufacturing Investment Castings.

4 2000

Certified by ISO 9001, P.E.D. & AD 2000 - Merkblatt W 0 from TUV Nord.

4 2005

We started 2nd manufacturing unit M/s **Inovative Technocast** to fulfill growing needs from our customers.

4 2010

We developed In-House **CNC Machine Shop** to supply ready to use quality components to our customers.

2015

We started our Third foundry **Turbo Cast (India) Pvt. Ltd,** certified for AS 9100C, exclusively for Aerospace, Defense and Medical applications.



Production Capacity and Range



	Description	Capacity / Range
>	Area of Land	10,000 Meter ²
>	Built up Area	7,000 Meter ²
>	Max. Overall Size	600 mm X 300 mm X 200 mm
>	Installed Capacity	60 MT / Month
>	Present Production	40 MT / Month
>	Weight Range	45 Grams to 45 Kg. for Steel
>	Min. Wall Thickness	2.00 mm
>	Surface Roughness	As Cast Ra 3.2 to 6.3 μm Machined Ra 0.4 μm (Min)
>	Industries Catered	Valves, Pumps, Automobile, General Engg.
>	Total Employee	150 Nos.
>	Quality Approval	ISO 9001, P.E.D., AD 2000-Merkblatt W 0
>	Export Market (50% Export) (50% Domestic)	Germany, France, U.K., Spain, Japan, USA, Mexico, Argentina, Australia

Production Capacity and Range



Inovative Technocast Pvt. Ltd.

Description	Capacity / Range
> Area of Land	10,000 Meter ²
> Built up Area	7,000 Meter ²
> Max. Overall Size	600 mm X 300 mm X 200 mm
> Installed Capacity	60 MT / Month
Present Production	40 MT / Month
Weight Range	45 Grams to 45 Kg. for Steel
> Min. Wall Thickness	2.00 mm
Surface Roughness	As Cast Ra 3.2 to 6.3 μm Machined Ra 0.4 μm (Min)
> Industries Catered	Valves, Pumps, Automobile, General Engg.
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Quality Approval	ISO 9001, P.E.D., AD 2000-Merkblatt W 0
Export Market (50% Export) (50% Domestic)	Germany, France, U.K., Spain, Japan, USA, Mexico, Argentina, Australia

Production Capacity and Range





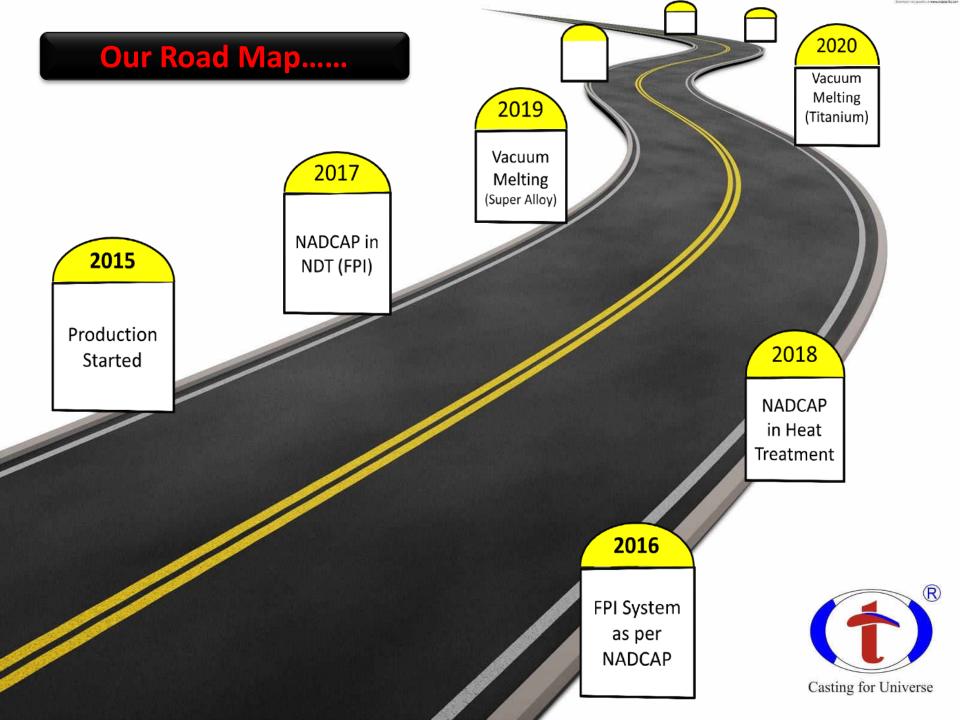
Description	Capacity / Range
Area of Land	16,000 Meter ²
> Built up Area	8,000 Meter ²
> Max. Overall Size	600 mm X 300 mm X 200 mm
> Installed Capacity	50 MT / Month
Present Production	10 MT / Month
> Weight Range	45 Grams to 45 Kg. for Steel 15 Grams to 15 Kg. for Aluminum
> Min. Wall Thickness	2.00 mm for Steel 1.50 mm for Aluminum
Surface Roughness (Steel)	As Cast Ra 3.2 to 6.3 μm Machined Ra 0.4 μm (Min)
Surface Roughness (Aluminum)	As Cast Ra 2.4 to 3.2 μm Machined Ra 0.6 μm (Min)
> Total Employee	50 Nos.

Our Vision & Mission



"To adopt a solution driven approach to achieve Customer Delight and create marked presence internationally."

"To be a global solution provider in Investment castings for a niche market of Aerospace, Defense and Medical applications offering high degree of dedication and cost effective solutions."



Values





Cast Precision: to Produce high quality products for customers

Cast Reputation: to keep a good reputation

Cast Progress: to make progress everyday

Turbo Cast (India) Pvt.Ltd.

Industries Catered











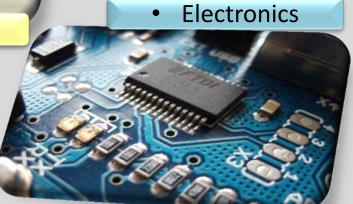
Medical

Aerospace

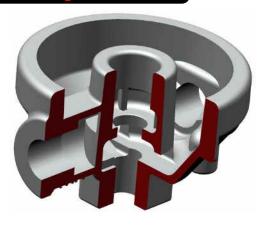
Defence



Turbocharger



Aerospace



Material: A356 T6
Weight: 0.500 Kg

Thickness: 3.00 mm Minimum Application: Boeing Engine Part

Material: MSRR 6527 (S.S.)

Weight : 0.100 Kg

Thickness : 1.50 mm minimum

Application: Rolls Royce Engine Part





Material : L 169 (A357 T6)

Weight: 0.700 Kg

Thickness: 2.50 mm minimum

Application : Air Bus Fuel Pump Part

Defence



Material: A356 T6 Weight: 0.100 Kg

Thickness: 1.50 mm minimum

Application : Defence Part



Material: A356 T6

Weight : 5 Kg

Thickness: 2.50 mm Minimum Application: TIFCS (Army Tank)



Material: 17-4 PH Weight: 1.400 Kg

Thickness: 2.50 mm minimum

Application: Light Machine Gun Part

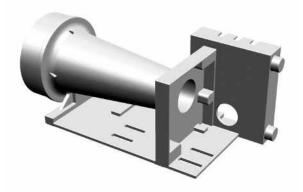
Defence



Material: A356 T6 Weight: 0.180 Kg

Thickness: 1.50 mm minimum

Application : **Defence Part**



Material: A356 T6 Weight: 0.170 Kg

Thickness: 1.50 mm Minimum

Application : **Defence Part**

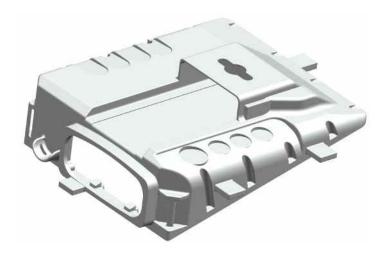


Material: A356 T6 Weight: 0.290 Kg

Thickness: 1.5mm minimum

Application: Electro Optical Part

Defence



Material: A356 T6
Weight: 0.610 Kg

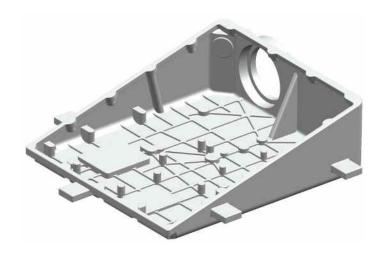
Thickness: 1.50 mm Minimum

Application : Defence Part

Material: A356 T6 Weight: 0.670 Kg

Thickness: 1.50 mm minimum

Application : Defence Part



Medical



Material : AISI 316L Weight : 0.850 Kg

Thickness: 1.50 mm minimum

Application : Medical Part

Material: A356 T6

Weight: 8 Kg

Thickness: 1.50 mm minimum

Application : Medical Part



Material: Al. Alloy A360

Weight: 1.700 Kg

Thickness: 2.00 mm Minimum

Application: Medical Part

Turbo Charger



Material : Austenitic Heat Resistant Steel

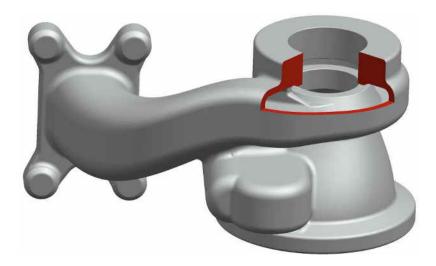
Weight: 3.600 Kg

Thickness: 2.50 mm Minimum Application: **Turbo Charger Part**

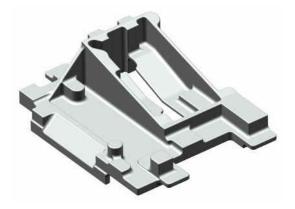
Material : Austenitic Heat Resistant Steel

Weight: 3.600 Kg

Thickness: 2.50 mm Minimum Application: **Turbo Charger Part**



Electronics

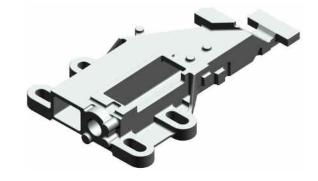


Material : A356 T6 Weight : 0.075 Kg

Thickness: 1.50 mm minimum Application: **Semi-conductor Part**

Material : A356 T6 Weight : 0.300 Kg

Thickness: 1.60 mm minimum Application: **Semi-conductor Part**





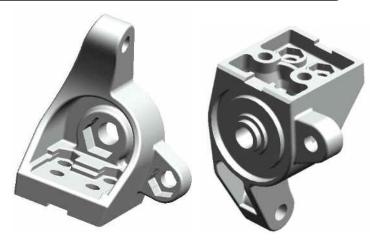
Material : Low Alloy Steel

Weight : 0.100 Kg

Thickness: 1.50 mm minimum

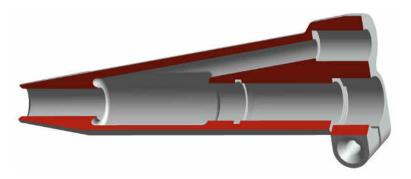
Application : Electronics Part

Aluminum Alloy



Material: A356 T6
Weight: 0.060 Kg

Thickness: 1.50 mm minimum Application: Renewable Energy



Material: A356 T6 Weight: 0.060 Kg

Thickness: 1.50 mm minimum Application: Renewable Energy



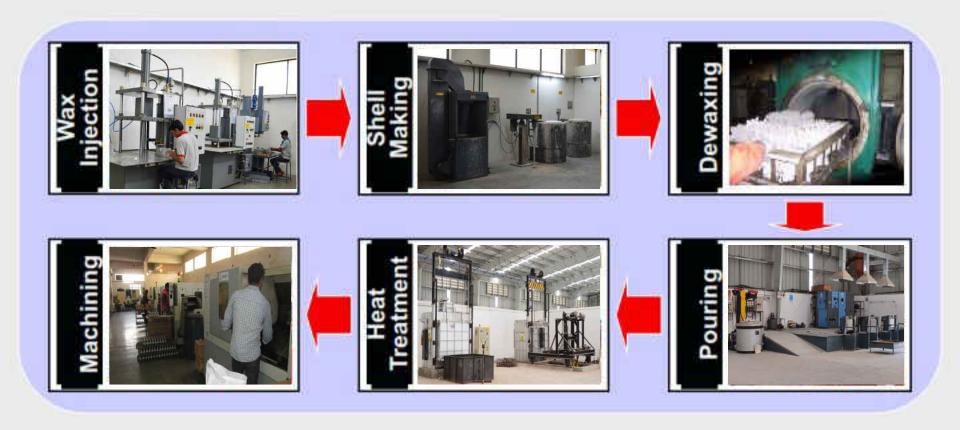


Material : A356 T6 Weight : 0.100 Kg

Thickness : 2.00 mm minimum Application : Renewable Energy



Production Facilities



Turbo Cast (India) Pvt.Ltd.

Surface Treatment

Turbo Cast (India) Pvt.Ltd.

Turbo owns a variety of surface treatment methods and facilities.









olishing Tumble Blasting

Sand Blasting

Pickling & Passivation



Powder Coating



Phosphating



Blackening



Painting



Zinc Coating



Mirror Polishing



Anodizing

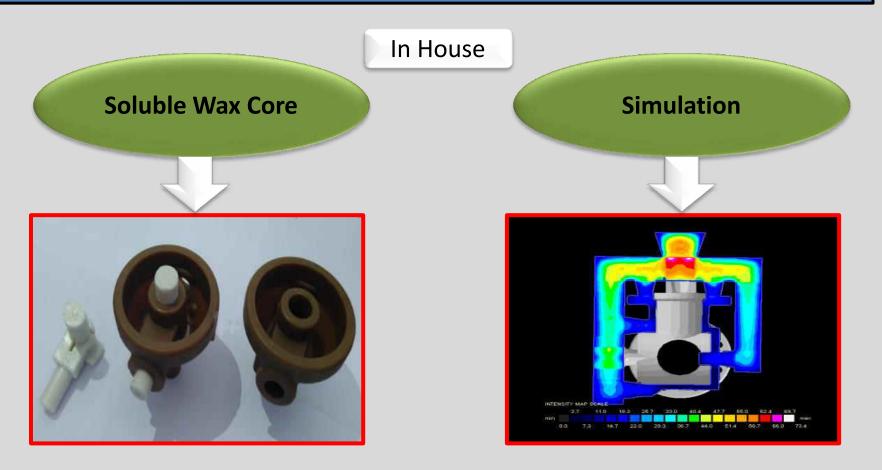


Chromate Conversion

House

Special Techniques

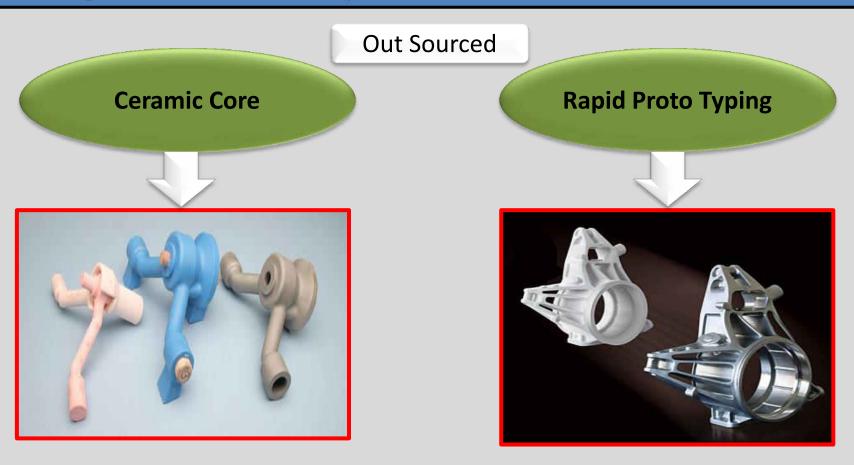
Special Techniques Enable Turbo Cast to Be Competent with Those Difficulties at Wax Injection stage When Mfg the Parts with Inner-Sophisticated-Structures.





Special Techniques

Special Techniques Enable Turbo Cast to Be Competent during Wax Pattern Development Without Tooling & with Those Difficulties at Shell Making stage When Mfg the Parts with Inner-Sophisticated-Structures.



Turbo Cast (India) Pvt.Ltd.

Testing & Inspection Facilities

Turbo Cast (India) Pvt.Ltd.



Hardness Tester



CMM (700X700X600)







Spectrometer (Spectro GmbH)



Impact Machine

NDT Facility



FPI (Fluorescent Penetrant Inspection)

Semi Automatic System as per NADCAP Requirement

- 2) MPI (Magnetic Particle Inspection)
- Prod Type Magnetic Particle Testing Machine

Radiography Testing

NABL Approved (Local)

- ISO/ IEC 17025: 2005 Certified
- ASNT Person Qualification

NADCAP Appd. (Bangalore)

- AC7004 Certified
- NAS 410 Person Qualification

In House

Out Sourced

Heat Treatment Facility



Normalizing

Annealing

Solution Annealing

Tempering

Precipitation Hardening

Hardening

In House

Drop bottom type Heat treatment Furnace for Alloy

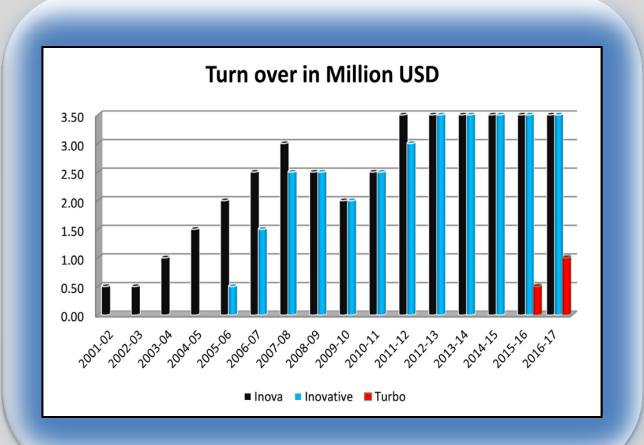
Water Quenching & Polyalkylene Glycol Quenchant Solution

In House From 2017

- NADCAP Approved (Bangalore)
- Hardening / Oil Quenching (Local)

Out Sourced

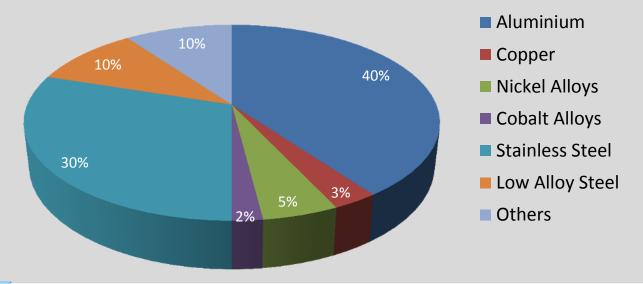
Turnovers in the Last years

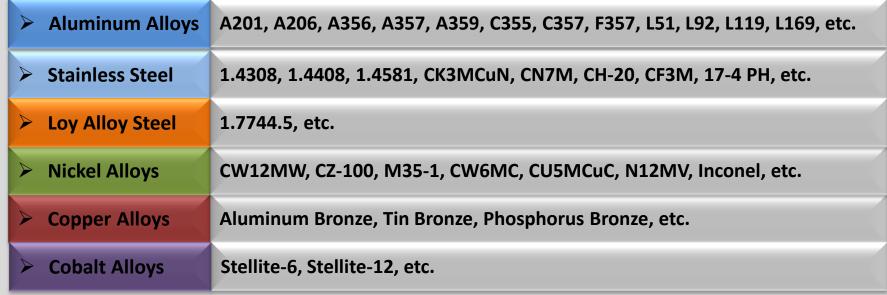


2001-02 \$ 0.50 M 2002-03 \$ 0.50 M 2003-04 \$ 1.00 M \$ 1.50 M 2004-05 \$ 2.50 M 2005-06 2006-07 \$ 4.00 M 2007-08 \$ 5.50 M 2008-09 \$ 5.00 M 2009-10 \$ 4.00 M 2010-11 \$ 5.00 M \$ 6.50 M 2011-12 2012-13 \$ 7.00 M \$ 7.00 M 2013-14 2014-15 \$ 7.00 M 2015-16 \$ 7.00 M 2016-17 \$ 7.00 M

Alloy of Products

Turbo Cast (India) Pvt.Ltd.



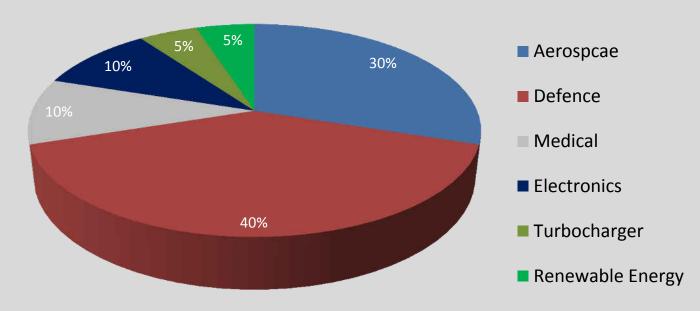


Industry Catered

Turbo Cast (India) Pvt.Ltd.















Quality Accreditation Certificates



CERTIFICATE

Management system as per

EN 9100: 2009

India

(technically equivalent to AS9100C and JIS Q 9100 : 2009)

In accordance with TOV NORD CERT procedures and the EN 9104-001 : 2013, it is hereby certified that

Turbo Cast (India) Pvt. Ltd. Survey No. 21, Village Biliyala Rajkot-Gondal National Highway Rajkot Gujarat - 360311



Casting for Universe

applies a management system in line with the above standard for the following scope

Manufacture and supply of machined / un-machined ferrous and non-ferrous investment castings

Certificate Registration No. 44 117 150247 Audit Report No. 3515 7279 Valid from 2015-05-08 Valid until 2018-05-07 Initial certification 2015-05-08



Essen, 2015-05-08

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH

Langemarckstrasse 20

45141 Essen.

www.fuev-nord-cert.com





TOV NORD CERT GmbH is accredited by DANKS/BDLI within the ICOP-scheme. TAV NORD

CERTIFICATE

Management system as per

ISO 9001: 2008

In accordance with TÖV NORD CERT procedures, it is hereby certified that

Turbo Cast (India) Pvt. Ltd. Survey No. 21, Village Biliyala Rajkot-Gondal National Highway Rajkot Gujarat - 360311 India



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TÚV NORD CERT GM6H

Langemarcketraße 20

151/1 Essen

www.tuev-norg-pert.com



DAKKS

Dautschie
Aktreditiorungsstell
D-8M-12007-01-01

AS 9100 Certificate

ISO 9001 Certificate

Customer Appreciation Letter



भारत इलेक्ट्रॉनिक्स लिमिटेड

(भारत सरकार का उद्यम, रक्षा मंत्रालय) नदमबाक्कम, चन्नै - 600 089. मारत.

BHARAT ELECTRONICS LIMITED

(A Govt. of India Enterprise, Ministry of Defence) Nandambakkam, Chennai - 600 689 INDIA

Phone : Fax : E-mail :

9th January 2016

Excellent Supplier Performance

Dear Mr. Mayani,

Turbo Cast (India) Pvt. Ltd.

To,

Rajkot

I take this opportunity to thank you and the Turbo Cast team for the outstanding support you have provided to Bharat Electronics Ltd., Chennai during the year 2015. You have displayed a high level of professionalism in understanding the job and offering excellent, cost-saving solutions in the shortest time.

In particular, we have succeeded in incorporating your precision Aluminium Investment Castings in the TIFCS (Thermal Imager Fire Control Systems) project for Army Tank supplied to our overseas counterpart M/s Elbit Systems, Israel. We thank you for the support you have extended to develop the product, providing immediate response and meeting the quality requirement for this very important project at BEL.

We look forward to continued co-operation with your esteemed organization.

With Regards,

R. Srinivasan AGM (Production)

Bharat Electronics Ltd., Chennai

बण्द श्रीनिवासन / R. SRINIVASAN Staff No. CHE 2003 18 बापर गरा प्रसन्धक (बल्यायन)

Addt. General Manager (Production)। विभाषा हिन्दी - राष्ट्रीयता का प्रतीक

पंजीकृत और कारपोरेट ऑफिस : नामक्स, औटर रिंग रोड, बॅगजूर - 580 045. भारत Reg. & Corporate Office : Nagavara, Outer Ring Road, Bangalore - 560 045 India

250 9001 and ISO 14001 Gentled Compan

KUN AEROSPACE PVT. LTD.



10th January, 2016

To, Turbo Cast (India) Pvt. Ltd. Rajkot

Supplier Performance

Dear Mr. Mavani,

Turbo-Cast (India) Pvt. Ltd., Rajkot, has supported our company with its Aerospace grade precision Investment Castings in Aluminium alloys during year 2015.

We have succeeded in supplying 100% Radiography Quality Critical Fuel Filter part to Our Boeing Tier-1 Supplier in USA.

Your excellent support extends from product development, close interface with our technical team, immediate response to service questions, on-time delivery, and a superb level of quality for this key project at Kun Aerospace.

We look forward to receive your similar co-operation in year 2016.

With/Regards

G. Srinivasa Rao Business Unit Head,

Kun Aerospace Pvt. Ltd., Chennai

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> Tylephur 91 = 4.342.555

91+4 3342 386

www.e.commispece.com

BEL, Chennai - 2015

KUN Aerospace - 2015

Our Valued Customers











TURBOTECH





Our Associate Group Companies





Survey No. 202, Village:- Veraval (Shapar), Dist. Rajkot - 360 024, Gujarat State, India Phone No.: + 91-2825-252282 / 252283

Fax.: +91-2827-253984

Inovative Technocast Pvt. Ltd.

Survey No. 204, Village:- Veraval (Shapar), Dist. Rajkot - 360 024, Gujarat State, India Phone No.: +91-2825-254501 / 254502

Fax.: +91-2827-254503



Email:- info@inovacast.com

Website:-www.inovacast.com



Turbo Cast (India) Pvt. Ltd.

Address

Survey No. 21, Village :- Biliyala, Rajkot - Gondal National Hightway, B/h Pan Agri Export, Rajkot - 360311, Gujarat, India

Phone No.

+91 - 2825 - 280301 / 280302

E-mail

info@turbo-cast.com

Website

www.turbo-cast.com