



# COMPANY PRESENTATION

**December  
2021**

**Your Trustworthy Supplier for Precision Cold Drawn Aluminium Tubes  
for Different Applications for Aero Space and Defence.**

# About Siddhi Group

3+ decades of experience in Aluminum Precision Drawn Tubes & Metal Cops



— Our products are used across multiple industries —



Who are we?

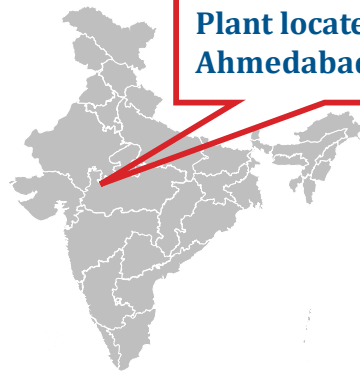
**Diversified Group with 2 holding companies**

- **Siddhi Engineers** : Manufacturer of Aluminum Precision Drawn Tubes from 20 different alloys since 1988
- **Samrudhi Engineering** : Engaged in manufacture of Metal Cops (bobbins/ pirns) for synthetic yarn winding since 1992



Strategically located in Western India to wide range of industrial segments

Plant located in Ahmedabad, Gujarat



Textile (incl. packaging )

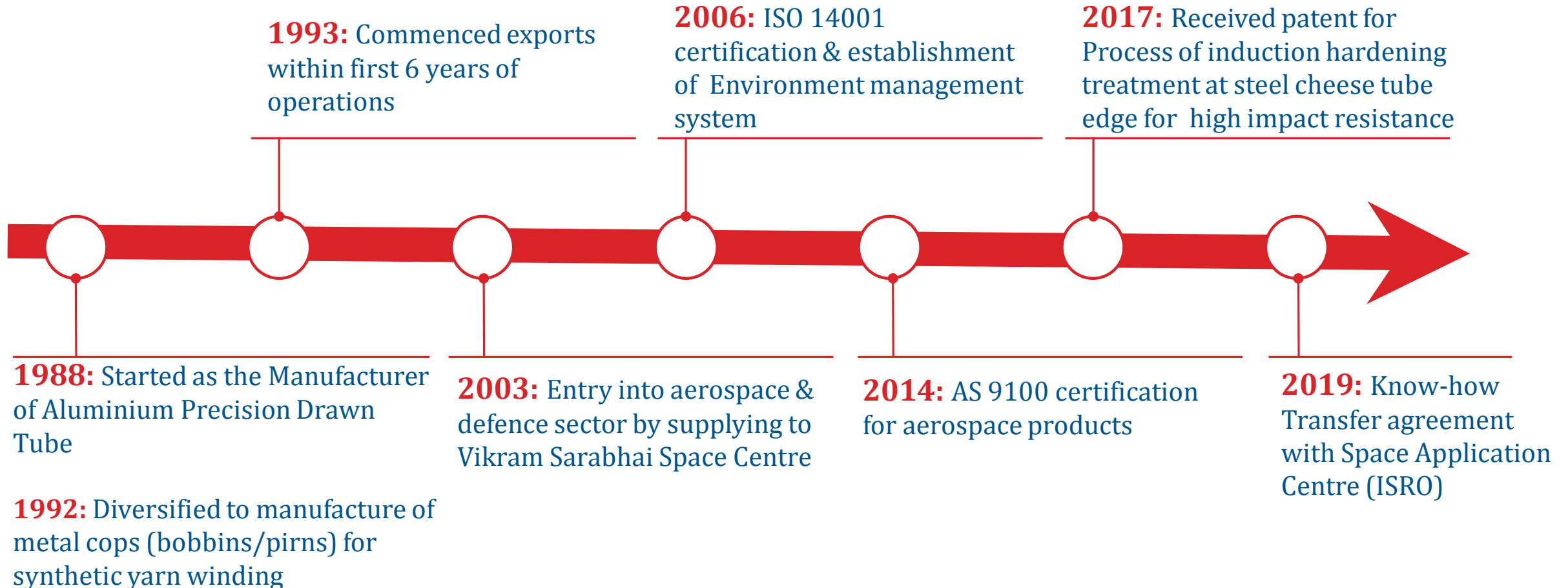


Aerospace & Defence



Industrial & General Engineering

# Our innovation led Journey that aimed import substitution for India...



# Our manufacturing & quality assurance capabilities



**Draw Benches**



**Annealing Furnace**



**Straightening Machine**



**UTS Machine**



**Adapter Fitting Arrangement**



**Spindle Guide Fitting**



**Cop Assembly**



**Running Measurement Arrangement**



**Cop Vibration Checking Arrangement**



# ..that helps us manufacture wide range of products



Aluminium Precision Drawn Tubes



Metal & Plastic Caps



Aluminium & Steel Cheese Tubes



Plastic tubes & accessories



30 million mtrs  
aluminum  
tubes delivered



15 million  
metal caps  
exported



**Our Strong Capabilities in Aerospace &  
Defence Sector**

# We have in-house capabilities to create customized solution from aluminium materials for AS&D sector



**Rectangular Al  
Tubes  
6061/6063**



**Waveguide Tubes**  
Ratio Between Inside Width  
And Height (2:1 / 4:1)



**AL. Seamless  
Tubes 2014**



**Cryogenic Engine  
Fuel Supply Line**



**Al Tube Coil  
1050**



**Vibration  
Simulation of  
launch vehicle**



**Al Tubes  
6082/6061**



**Telephonic Mast  
for Communication**

# We have in-house capabilities to create customized solution from aluminium materials for AS&D sector



**70 mm Rocket**

**Al 7075 Tubes**



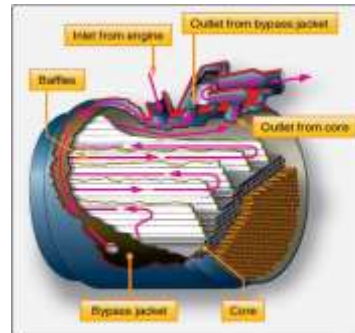
**Air Intake for  
Missile Application**

**Al Tube 6082  
Seamless**



**Fuel Supply Lines  
for amphibian tank**

**Al 5052 Tubes**



**Cooler Assembly  
for Helicopter**



**Chaff Cartridge**

**Al Tube  
5 Series Alloy**



# We have strong clientele base that can vouch for our commitment & delivery standards



## — Aerospace & Defence —



"Siddhi Engineers uses its decades old experience and highly skilled work force to produce aluminium profiles and sections of utmost quality and precision "

**Managing Director, Deep Explo**

"Siddhi Engineers truly partnered with us to help solve technical challenges with positive attitude; good technical and manufacturing support provided by the firm"

**Scientist, DRDL**

# Awards & Certifications

**45+ awards and counting**

## Certifications



**Export Excellence**



**Research & Development**



**Entrepreneurship**



**ISO 9001 - 2015 quality management**



**ISO 14001 - 2015 Environment management**



**Banker's award**



**Society of Aerospace Manufacturers**



**Make in India award**



**EN 9100 - 2018 Aerospace Products**

# Patent Applications made and in process

High focus on research and innovative solutioning

Spends around **5%** of revenue on R&D

## 1 patent received



**Process of induction hardening treatment at steel cheese tube edge for high impact resistance**

## 5 Patents applications in process



India

Process for **manufacturing of Aluminium alloy cheese tube**, cheese pipe or bobbin for woven sack



India

Process for **manufacturing steel cheese tubes**, jumbo tubes, pipes for woven sacks and cops, bobbin, pirns for synthetic yarn



India

Process for **manufacturing of steel cops/ bobbins/ pirns** for synthetic yarn



India

Method of **manufacturing Aluminium tubes** for telescopic mast



Israel

Process for **Manufacturing Steel Cheese tubes/ jumbo tubes/ pipes** for woven-sacks and cops/ bobbins/ pirns for synthetic yarn



**State-of-the-art manufacturing facility with robust quality management processes that ensures reliability and consistency**



**Our commitment to manufacture products that have enhanced features for higher functional performance**



**In-house product development capabilities & customization to embedded in strong in-house research and development**



**Our demonstrated success of delivery in import substitution in 30+ years**



**Our partnership centric approach with our customers to solve their deepest problem in cost-effective and efficient way (E.g. ISRO, DRDL, BAPL etc.)**

Why **Siddhi Group** is best suited partner for your business

# Successful client case studies of co-development, innovation and problem solving



Select Examples



**Helping ISRO** design and build efficient and cost-effective satellite systems

**Context:** ISRO wanted low weight substitutes for wave guide tube: brass/copper-based wave guide tube of thickness 1.2 mm used

**Approach:** Siddhi Engineers developed & innovated 0.63 mm aluminium based wave guide tubes



**Helping Israel-based** textile player in developing cost-effective bobbin to save reverse logistics cost

**Context:** Nilit used heavy metal cops that led to cost (reverse logistics) and supply chain hassles (inventory management, paper work, etc.)

**Approach:** Samruddhi Engineers re-designed & commercialized optimal grade steel tubes

**15-20%**



lower weight leading to efficient space system design

**Gold Medal**



from Indian Space and Defense Programme (2009)

**60%**



lower weight and zero reverse logistics



# 2 pronged approach to drive research and development within the group



## Collaboration and partnership with institutions to drive research and development



राष्ट्रीय डिज़ाइन संस्थान  
NATIONAL INSTITUTE OF DESIGN



CIPET सि पे ट  
probo · perform · practice · Plastics



## Building culture of innovation and continual improvement



Monthly cadence of idea generation by involving shopfloor manpower (Karmayogi) to improve **product and processes**



Have developed **full time in-house innovation team** to drive change in equipment, process and products



Development of unique product features (light weight, better tolerance, optimal alloy composition, exceptional concentricity, etc.)

# Innovative team & culture building practices being adopted



**Daily Exercise, Prayer and Good News Sharing**



**Quarterly Karmayogi Meet**



**Graveyard for negative thoughts**



**Good Book every month to all team members with their salary**



**Blood Donation & Dental Health check up Camps**





# Media publication and press releases

## Siddhi Engineers awarded for outstanding entrepreneurship

**BIG ON EXCELLENCE**

SME ENTERPRISES		RESEARCH & DEVELOPMENT	
Award Winner	Company	Award Winner	Company
Vishabh Parikh	Shreyas Systems	Ghanshyam Dhokariya	Mobal Refrigerators
Satish Parwar	Energy Mission Engineers	Maganbhai Patel	Capton Tractors
Maganbhai Patel	Capton Tractors	Bhagat Patel	Techno Industries
Haribhai Patel	Vasu Healthcare	Bhagvat Patel	Siddhi Engineers
Bhagat Patel	Techno Industries	Haribhai Patel	Vasu Healthcare
Dinesh Daga	Shree Hans Alloys	QUALITY PRODUCTS	
Chandubhai Kothiyar	Ganesh Chemicals	Award Winner	Company
Bhagvat Patel	Siddhi Engineers	Ramesh Kulkarniya	Capton Polystyrene
Nitesh Shah	Swan Sweets		

**15 State-Based MSMEs Receive Awards From Centre For Innovation, Quality**

Himanshu Dahiya  
ANANDIPUR

SMART is sometimes the wish to be. Kala-based 80+ more Siddhi Engineers, the recipient of national awards for micro, small and medium enterprises for outstanding entrepreneurship in New Delhi on August 26, 2009.

Siddhi Engineers manufactures aluminium pipes for aircraft industries and supplies them to Indian Space Research Organisation (ISRO) and Space Applications Satellite Centre (SAC), Ahmedabad. These pipes were originally imported from France. Now with Siddhi Engineers supplying these pipes, we only viable foreign exchange saving, but also the cost of the pipes is 20%.

Appreciating the contribution in 8th prime minister Manmohan Singh presented a award to Bhagavat Patel, chairman of the company, at New Delhi.

"We are honoured to be a part of this event, by not in



**સિદ્ધી ગૃપની સમૃદ્ધિ એન્જીનીયરીંગને માઈક્રો એન્ટરપ્રાઈઝ એવોર્ડ મળ્યો**

સિદ્ધી ગૃપના સમૃદ્ધિ એન્જીનીયરીંગને માઈક્રો એન્ટરપ્રાઈઝ એવોર્ડ મળ્યો. આ એવોર્ડને આપવામાં આવેલા અગ્રણી ગૃપના સમૃદ્ધિ એન્જીનીયરીંગને માઈક્રો એન્ટરપ્રાઈઝ એવોર્ડ મળ્યો. આ એવોર્ડને આપવામાં આવેલા અગ્રણી ગૃપના સમૃદ્ધિ એન્જીનીયરીંગને માઈક્રો એન્ટરપ્રાઈઝ એવોર્ડ મળ્યો.

**J. S. GROUP**

**EPC INDIA**

ENGINEERING THE FUTURE

## Sky's the limit to their aspirations

Nayan Dave | TNN



Prashant Gandhi (left) and Bhagavat Patel

**Ahmedabad:** During their college days in early 80s, these two roommates dreamt of reaching for the sky. Three decades on, the mechanical engineers have done it, literally. Siddhi Engineers, a firm promoted by Bhagavat Patel (50) and Prashant Gandhi (50) recently bagged an award from Union Ministry of Micro, Small & Medium Enterprises for designing high-precision tubes for Indian Space Research Organisation (ISRO). The space organisation will use these tubes to establish contact with GSAT-12, which is likely to be launched in 2010.

After passing out from Birla Vishwakarma Mahavidyalaya in Vallabh Vidyanagar, both Patel and Gandhi worked for seven years in different companies. "It was our dream that brought us together again in 1988. We thought of doing something on our own and launched a partnership firm with an initial invest-

firm supplied fuel supply line to ISRO for GSLV F01 satellite. There has been no looking back since then. Today, the Rs 10-crore firm employs over 150 persons.

"Scientists from Space Application Centre (SAC) wanted us to design a hollow aluminium rectangular tube, which is extremely lightweight and sturdy at the same time. Even a variation of 10 microns was not allowed. We took it as a challenge and succeeded," said Gandhi, talking about the award-winning product, which is used to manufacture 'Wave Guide', a crucial component for space-earth linkage. Siddhi Engineers managed to nudge out a large multinational giant to bag the project from ISRO.



**SIDDHI GROUP**

## Key team & contact details



**Mr. Prashant Gandhi**  
Partner



**Mr. Bhagwat Patel**  
Partner



**Mr. Shailesh Patel**  
Partner



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