



**Precision Cold Drawn
Aluminium Tubes
For
Aerospace & Defence**

**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?

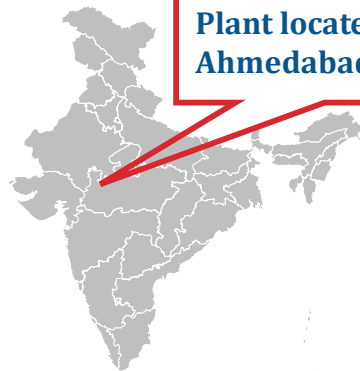
Diversified Group with 2 holding companies

- **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)

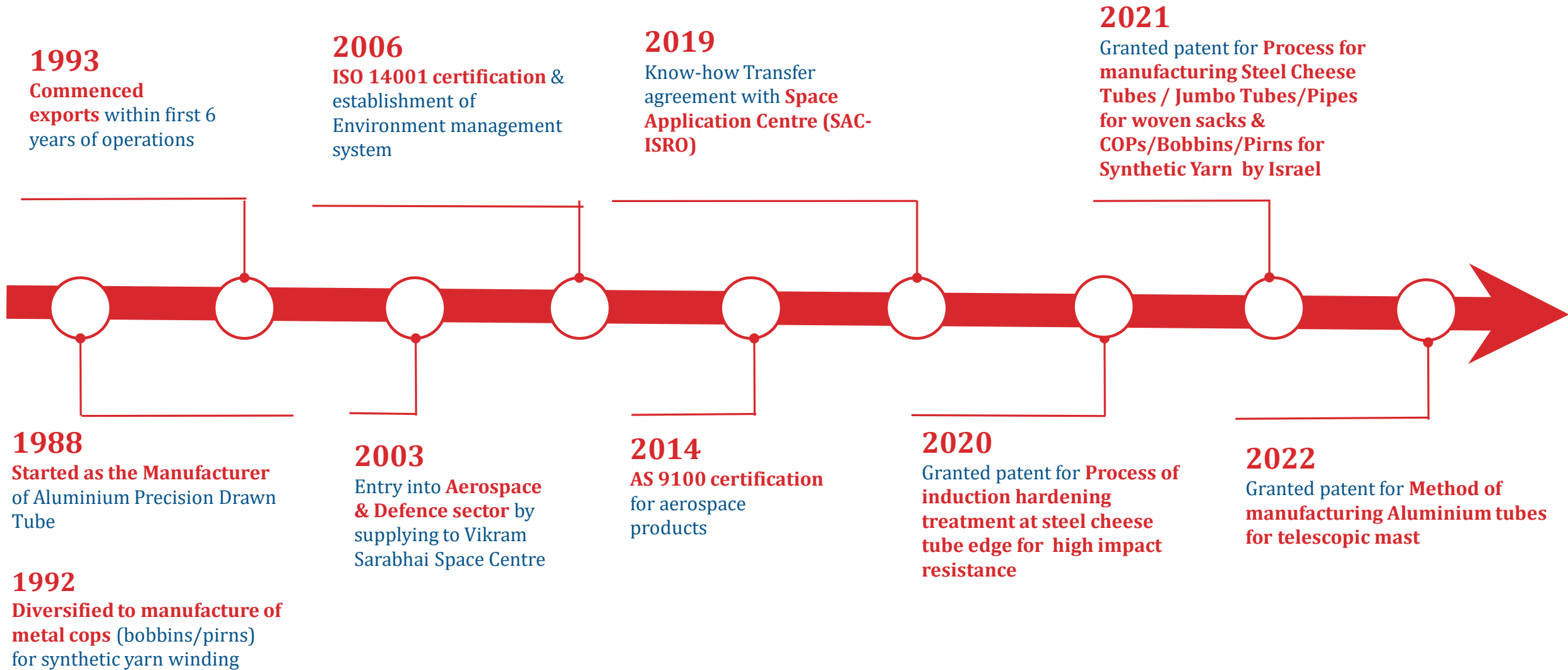


Aerospace & Defence



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



Run-out Measurement Arrangement



Cop Vibration Checking Arrangement

..that helps us manufacture wide range of products



Aluminium Precision Drawn Tubes



Metal & Plastic Cops



Aluminium & Steel Cheese Tubes



Plastic tubes & accessories



30 million mtrs
aluminum
tubes delivered



15 million
metal cops
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



Al 7075 Tubes



70 mm Rocket



**Al Tube 6082
Seamless**



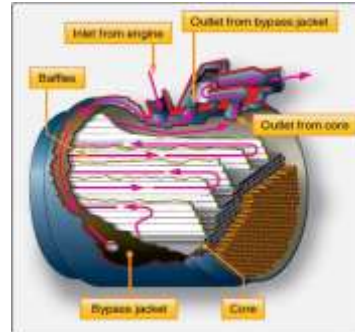
**Air Intake for
Missile Application**



Al 5052 Tubes



**Fuel Supply Lines
for amphibian tank**



**Cooler Assembly
for Helicopter**



**Al Tube
5 Series Alloy**



Chaff Cartridge

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

50+ awards and counting

Certifications



Export Excellence



Research & Development



Entrepreneurship



Banker' award



Make in India award



Gold Medals from SAME (2009, 2017)



**AS 9100D
ISO 9110:2015
Quality Management**



**ISO 14001:2015
Environment management**

3 Patents Received

INDIA



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

ISRAEL



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

INDIA



Method of manufacturing Aluminium tubes for telescopic mast

4 applications are 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

A process for Preventing Deformation in the ends of Jumbo Aluminium Tubes

High focus on R&D and Innovations

Spends around 5% of revenue on R&D

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



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.)

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



Supporting SAC(ISRO) to design and build efficient and cost-effective satellite payload systems

Context: SAC(ISRO) wanted low weight substitutes for Brass/Copper/Aluminium-based waveguide tube of thickness 1.2 mm

Approach: Siddhi Engineers innovated & developed 0.63 mm thick aluminium based waveguide tubes

15-20%



lower weight leading to saving satellite launching cost

2 Gold Medals



from Society of Aerospace Manufacturing Engineer (2009, 2017)



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

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



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.)

Innovation and Culture Building Practices being adopted



Daily Exercise, Prayer and Good News Sharing



Quarterly Karmayogi Meet



Graveyard for negative thoughts



Book distribution every month to all team members with their salary



Blood Donation & Dental Health check up Camps



Media Coverage

Siddhi Engineers awarded for outstanding entrepreneurship

BIG ON EXCELLENCE

SMILE ENTERPRISES

Award Winner	Company	Research & Development
Vishwanath Parikh	Shreevastu Systems	Arunal Winner
Satish Parwar	Energy Mission Engineers	Chandrayan Dhokariya
Megambhai Patel	Captain Tractors	Mogambhai Patel
Haribhai Patel	Vasa Healthcare	Bhagvat Patel
Bhagvat Patel	Techno Industries	Bhagvat Patel
Dinesh Daga	Shree Hans Alloys	Haribhai Patel
Chandubhai Kothiyar	Ganesh Chemicals	
Bhagvat Patel	Siddhi Engineers	
Nitesh Shah	Saan Sweets	

QUALITY PRODUCTS

Award Winner	Company
Ramesh Kakkadiya	Captain Polyplast

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

Himanshu Dargi
ANANDH

SMART is something big. This is not for Kashi-based 80+ crore Siddhi Engineers, the recipient of national awards for micro, small and medium enterprises for outstanding entrepreneurship in New Delhi on August 26, 2011.

Siddhi Engineers manufactures aluminium pipes for aerospace 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 supply foreign exchange saving good, but also the cost of the pipes is 90%.

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 being in

ધસરોના ઉપગ્રહમાં ગુજરાતની લઘુ ઉદ્યોગ ક્ષેત્રની કંપનીનું મોટું યોગદાન

ગુજરાતના 15 એકમને સાર એન્ડ ડી એમએસએમઇ સેક્ટરના એવોર્ડ

સરકારે આજે રાજ્યના 15 એકમને સાર એન્ડ ડી એમએસએમઇ સેક્ટરના એવોર્ડ આપ્યા છે. આ એવોર્ડને આપવામાં આવેલા એકમોમાં ગુજરાતના 15 એકમોનો સમાવેશ થાય છે. આ એવોર્ડને આપવામાં આવેલા એકમોમાં ગુજરાતના 15 એકમોનો સમાવેશ થાય છે. આ એવોર્ડને આપવામાં આવેલા એકમોમાં ગુજરાતના 15 એકમોનો સમાવેશ થાય છે.

સમગ્ર ગુજરાતી

કેવળા પાંચ કર્મચી કંપનીના કર્મચારીઓ માની એકિએકમક પુસ્તિકાઓની નવા વિચારોનું ઉદ્ભવ હઈ એમ ભરે છે

મીગળ"યાત્રામાં આ ગુજરાતીનું અમૂલ્ય યોગદાન

SMART ગુજરાતી

ગુજરાતી ભાષામાં આ એવોર્ડને આપવામાં આવેલા એકમોમાં ગુજરાતના 15 એકમોનો સમાવેશ થાય છે. આ એવોર્ડને આપવામાં આવેલા એકમોમાં ગુજરાતના 15 એકમોનો સમાવેશ થાય છે. આ એવોર્ડને આપવામાં આવેલા એકમોમાં ગુજરાતના 15 એકમોનો સમાવેશ થાય છે.

સિદ્ધી ગૃપની સમૃદ્ધિ એન્જીનીયરીંગને માઈક્રો એન્ટરપ્રાઈઝ એવોર્ડ મળ્યો

સિદ્ધી ગૃપની સમૃદ્ધિ એન્જીનીયરીંગને માઈક્રો એન્ટરપ્રાઈઝ એવોર્ડ મળ્યો. આ એવોર્ડને આપવામાં આવેલા એકમોમાં ગુજરાતના 15 એકમોનો સમાવેશ થાય છે. આ એવોર્ડને આપવામાં આવેલા એકમોમાં ગુજરાતના 15 એકમોનો સમાવેશ થાય છે.

J. S. GROUP

EETPCINDIA

ENGINEERING THE FUTURE

Sky's the limit to their aspirations

Nayan Dave | TNN

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.



Prashant Gandhi (left) and Bhagavat Patel

After passing out from Birla Vishwakarma Mahavidhyalay 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-

ment of Rs 40,000," said Patel. Soon, they started manufacturing aluminium tubes for television antenna. Gradually, they started supplying a variety of aluminium tubes for industrial use. Their big moment came in 2002. The

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 Engineer's managed to nudge out a large multinational giant to bag the project from ISRO.



Key team & contact details



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Partner



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