





Samruddhi Engineering - A Leading manufacturer of COPS, ABS SLEEVES & ABS TUBE

About Samruddhi Engineering

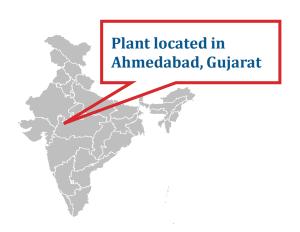
2+ decades of precision



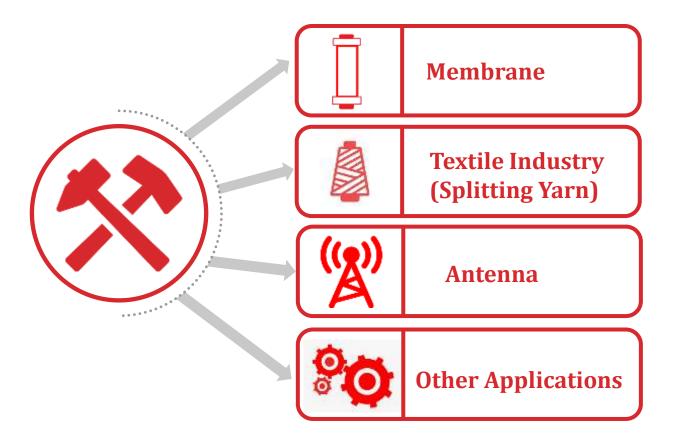


A leading manufacturer of world class Metal COPs/Bobbins/Pirns, Acrylonitrile Butadiene Styrene - ABS (an Engineering Plastic) Sleeves & ABS Tubes.





Our products are used across multiple industries



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



1993

Commenced exports within first 6
years of operations

2006

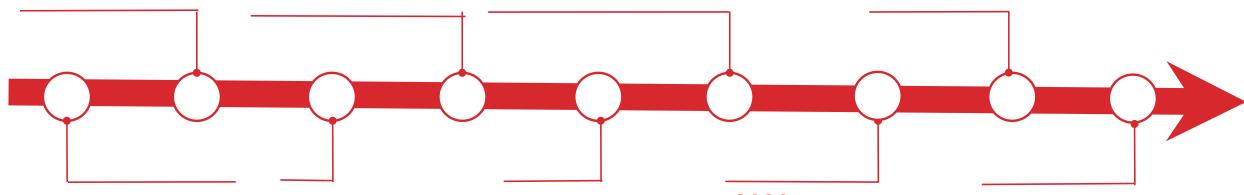
ISO 14001 certification & establishment of Environment management system

2019

Know-how Transfer agreement with **Space Application Centre (SAC-ISRO)**

2021

Granted patent for Process for manufacturing Steel Cheese Tubes / Jumbo Tubes/Pipes for woven sacks & COPs/Bobbins/Pirns for Synthetic Yarn by Israel



1988

Started as the Manufacturer of Aluminium Precision Drawn Tube

1992

Diversified to manufacture of metal cops (bobbins/pirns) for synthetic yarn winding

2003

Entry into Aerospace & Defence sector by supplying to Vikram Sarabhai Space Centre

2014

AS 9100 certification for aerospace products

2020

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

2022

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

Our manufacturing & quality assurance capabilities





Oven



Tube Measurement Machine





Hardness Tester



MFI Tester

..that helps us manufacture wide range of products













ABS Tubes









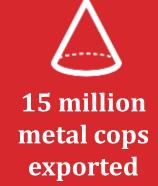








30 million mtrs Aluminium tubes delivered





ANTI-STATIC





HIGH IMPACT

Grades of **ABS TUBES** available with



UV STABLE

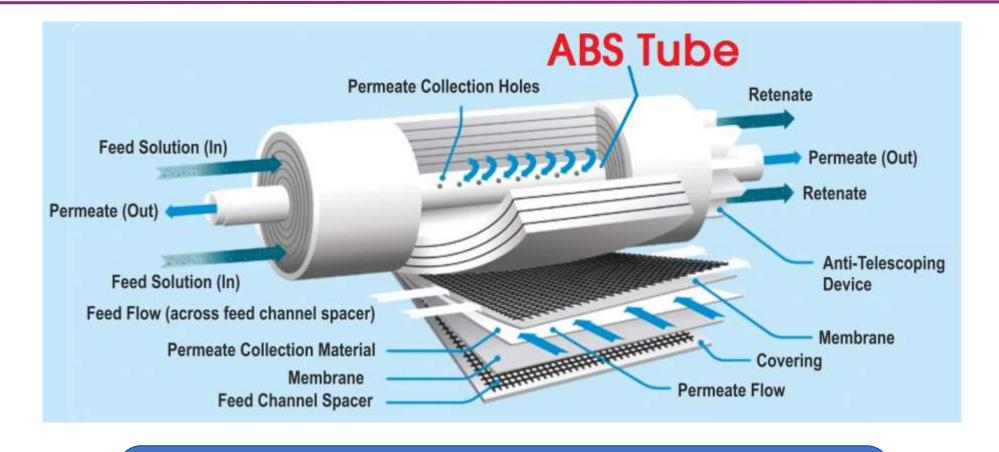
FIRE RETARDENT

HIGH TENSILE

GLASS FIBRE







A membrane is a selective barrier; it allows some things to pass through but stops others. ABS Tube is used as Permeate Tube/Membrane Tube







Range					
Outer Diameter	Inner Diameter	Thickness	Length		
12.0 mm	5.0 mm	3.50 mm	1000 mm		
21.5 mm	13.5 mm	4.00 mm	545 mm		
			1016 mm or 1020 mm		

Colours Available					
Natural	Black	Blue	Green		

Membrane-Applications





Dairy Industries









Food and Beverages



Industrial Process & Waste water



Textile and Dye Industries

ABS TUBES OTHER APPLICATIONS



ANTENNA

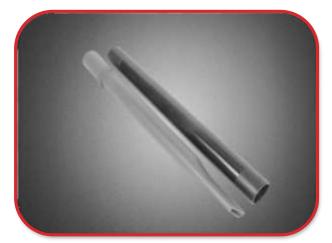




PLAY HOUSE & TOYS

CHILLED WATER PIPE





VACUUM BLOW GUN

And many other industrial applications...

Awards & Certifications



50+ awards and counting



Export Excellence



STATE BANK OF INDIA

Banker' award





Make in India award





Gold Medals from SAME (2009, 2017)

Certifications





AS 9100D ISO 9110:2015 Quality Management

ISO 14001:2015 Environment management

3 Patents Received



High focus on R&D and

Innovations

Spends around 5% of revenue on R&D

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



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



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





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

Why Siddhi
Group is best
suited partner
for your
business





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

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

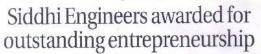


Blood Donation & Dental Health check up Camps



Media Coverage







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

SMALL resonations big. This is to exton Kalol-hased Reffcremeurshing New Delhi on August 28, 2009.

serich Organisation (ISRO) and Space Application Satellite movation, quality and entrepreneurship.
(SAC). Altenedat ad. These processors organily imported. This is the first time that Gojard-based Indistries have re-

We are banaged that a small company located in Atal Kapan

Chitatral GIDC has been awarded by prime minister ISRO is now sourcing abundation pages from us. It is much cheaper than the earlier ones apposed from France These pipes are being unitsed to time that continuous more Siddid Engineers the recovery of national awards for curry, small and medium encourses for activarying entre. different sizes. We have also bagged commacts from the defence serior," said Mr Patel.

Siddid Engineers manufactures autonomy pipes for armigrant industries analysis plus them to Indian Spire Re-jurat were awards obj. the contral government for their in-

from France. Now with Solfink agrees supplying these presents and you mail to be presented as a first property of the present and you mail the breed of the pipes to 80° and the cost of the pipes to 80° and the cost of the pipes to 80° and 10° and Appreciating the correspondence in 84-0, prime immisser - a matter of great pride for its. This is a testimony to the en-Mammolian Single presented the award to Blagwar Parel. Irrepreneur and for owarser sport of Guarra's industries, and Gularat State Small industries Federation president.

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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.

After passing out from Birla Vishwakarma Mahavidhyalay in Vallabh Vidyanagar, both Patel and Gandhi worked for seven years in difdream that brought us together again in 1988. We thought of



Prashant Gandhi (left) and Bhagavat Patel

ment of Rs 40,000," said Patel.

Soon, they started manuferent companies. "It was our facturing aluminium tubes for television antenna. Gradu- cial component for spaceally, they started supplying a doing something on our own variety of aluminium tubes neers managed to nudge out a and launched a partnership for industrial use. Their big firm with an initial invest- moment came in 2002. The bagthe project from ISRO.

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 holaluminium rectangular tube. which is extremely lightweight sturdy at the same time. Even a variation of 10 microns was not allowed. We took it as a challenge and succeeded." said Gandhi, talk-

ing about the award-winning product, which is used to manufacture 'Wave Guide', a cruearth linkage. Siddhi Engilarge multinational giant to



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