

# COPS, ABS SLEEVES & ABS TUBE

# About Samruddhi Engineering

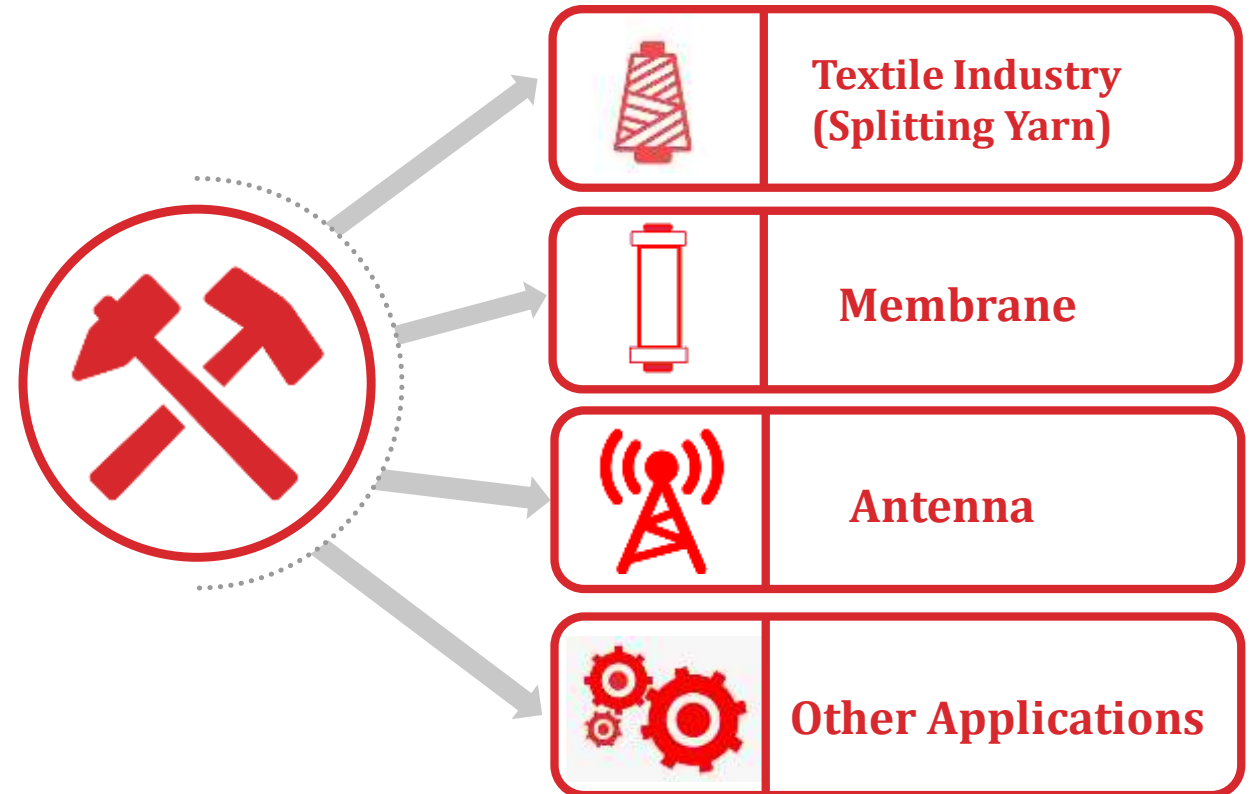
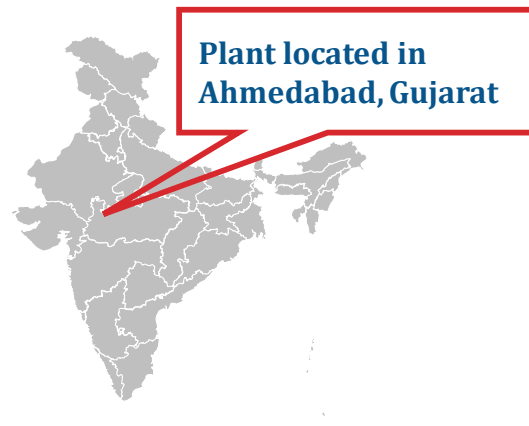
2+ decades of precision



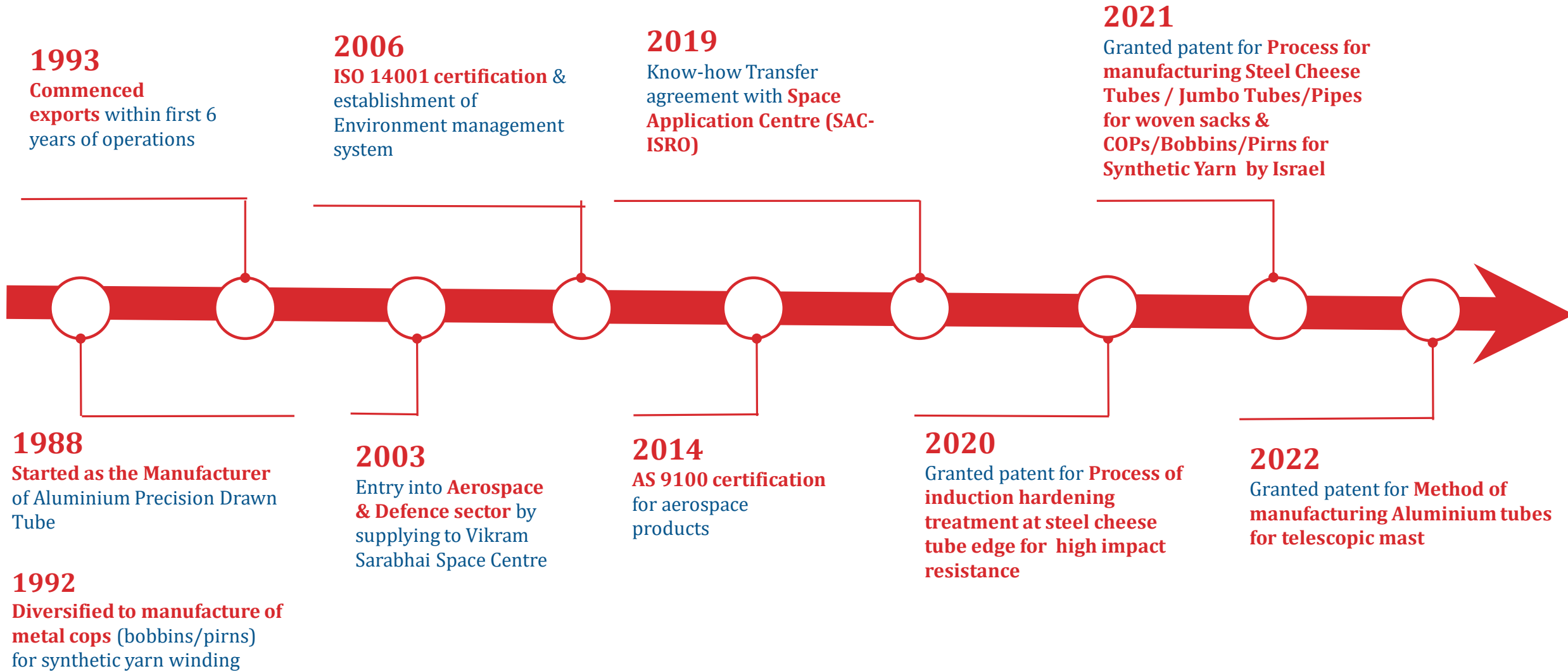
— Our products are used across multiple industries —



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



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



# Our manufacturing & quality assurance capabilities



COP Assembly



Sleeve Cutting Machine



Universal Testing Machine



Run-out Testing



Measuring Equipment

# ..that helps us manufacture wide range of products



Aluminium Precision Drawn Tubes



Metal COPs & Accessories



Aluminium & Steel Cheese Tubes



ABS Tubes



30 million mtrs  
Aluminium  
tubes delivered



15 million  
metal cops  
exported



# MULTIUSE COPS ( RETURNABLE COPS )



- Highly recommended for in-house purpose.
- Can be used for multiple cycles.

RANGE	
Size	45 mm OD to 55 mm OD
Thickness	1.00 mm to 1.30 mm
Length	340 mm to 450 mm
Weight Range	387 grams to 680 grams
STEEL TUBE TYPE	CDW
SUITABLE FOR YARN	Nylon (Polyamide) & Polyester
SUITABLE FOR MACHINE	Draw Twisting & Splitting

# SINGLE USE COPS ( NON RETURNABLE COPS )



- Most suitable for Yarn exports.
- Cost-effective compared to Multi use Cops.

RANGE	
Size	45.15 mm OD to 48.55 mm OD
Thickness	0.80 mm
Length	340 mm to 420 mm
Weight Range	325 grams to 440 grams
STEEL TUBE TYPE	ERW & CDW
SUITABLE FOR YARN	Nylon (Polyamide) & Polyester
SUITABLE FOR MACHINE	Draw Twisting & Splitting

# SUPER HIGH STRENGTH COPS (For Monofilament / Split Yarn)



Specially developed by Samruddhi Engineering, **Super High Strength Cops** have been used by customers for **100+ cycle & still working well.**

RANGE	
Size	45.15 mm OD to 48.55 mm OD
Thickness	0.80 mm TO 1.00 MM
Length	340 mm to 420 mm
Weight Range	387 grams to 476 grams
STEEL TUBE TYPE	ERW & CDW
SUITABLE FOR YARN	Polyester & Nylon (Polyamide) Monofilament / Split Yarn
SUITABLE FOR MACHINE	Splitting Machine



# ABS Sleeves - Range Options



RANGE	
Size	44.45 mm to 55.00 mm ID
Thickness	0.35 mm to 0.60 mm
Surface Finish	Plain / Micro Grooving / Matt ( Orange Peel ) Finish
Colors	Grey , Blue , Green , Violet , Yellow, Black or as per customer's requirement

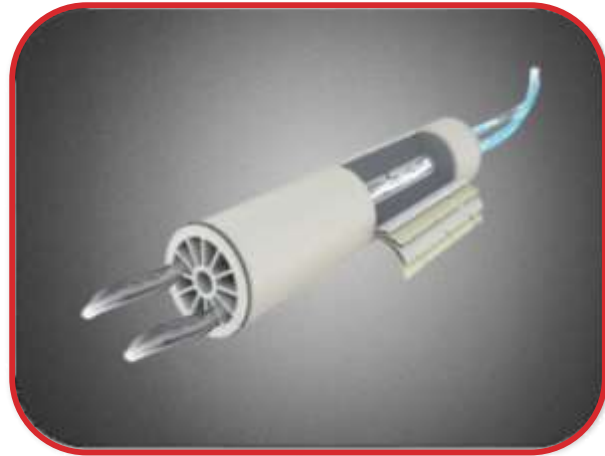
# ABS Tubes - Range Options



RANGE	
Outer Diameter	10mm to 75mm
Thickness	1mm to 4mm
Length	As per customer's requirement
Colors	Grey , Blue , Green , Violet , Yellow, Black or as per customer's requirement
Grades	Normal Extrusion High Impact Fire Retardant UV Stabilized Anti Static

# ABS TUBES APPLICATIONS

**MEMBRANE**



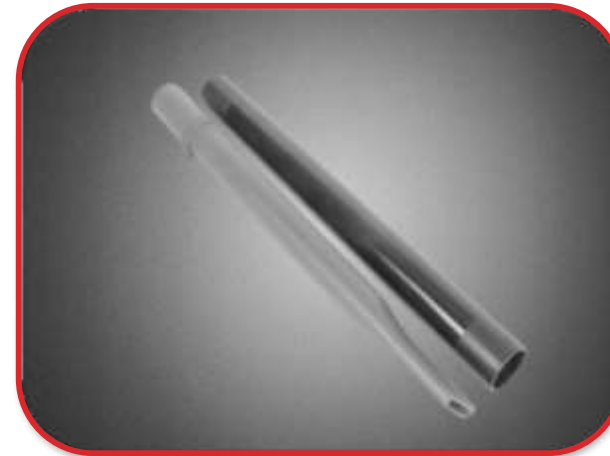
**PLAY HOUSE & TOYS**



**ANTENNA**



**VACUUM BLOW GUN**



**And many other industrial applications...**

# Awards & Certifications

## 50+ awards and counting

## Certifications



Export Excellence



Research & Development



Entrepreneurship



Banker's 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.)

# Innovative team & 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	Company
Vishwanath Parikh	Shreevast Systems	Chandrayan Dhokariya	Mobal Refrigerators
Satish Parmar	Energy Mission Engineers	Maganbhai Patel	Capton Tractors
Maganbhai Patel	Capton Tractors	Bhagwat Patel	Techno Industries
Haribhai Patel	Vasa Healthcare	Bhagwat Patel	Siddhi Engineers
Bhagwat Patel	Techno Industries	Haribhai Patel	Vasa Healthcare
Dinesh Daga	Shree Hans Alloys	<b>QUALITY PRODUCTS</b>	
Chandubhai Kothiyar	Ganesh Chemicals	Award Winner	Company
Bhagwat Patel	Siddhi Engineers	Ramesh Kikkadiya	Capton Polypart
Nilesh Shah	Swan Sweets		

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

Himanshu Dahiya, Chairman, CII, said that the award is a recognition of the hard work and dedication of the entrepreneurs who have made their companies successful. He said that the award is a recognition of the hard work and dedication of the entrepreneurs who have made their companies successful.

Along with Siddhi Engineers, a total of 15 MSMEs of Gujarat were awarded by the central government for their innovation, quality and entrepreneurship. This is the first time that Gujarat-based industries have received awards from a large number. Last year only three state-based companies were recipients of the prestigious award. "Quality Promotions" is a new scheme, which is a matter of great pride for us. This is a testimony to the entrepreneurship and innovative spirit of Gujarat's industries," said Gujarat State Small Industries Federation president Raj Kojari.

**સમગ્ર ગુજરાતી**

વેબના પાયા પરથી કંપનીના કર્મચારીઓ માંથી એડિટિંગ અને પુસ્તિકાઓની નવા વિષયોનું ઉદ્ભવ કરી શકે તે

## "મીગન" યાત્રામાં આ ગુજરાતીનું અમૂલ્ય યોગદાન

### SMART ગુજરાતી



સાથે જોડાયેલ એક સમગ્ર ગુજરાતી અભિયાન શરૂ કરવામાં આવ્યું છે. આ અભિયાનમાં ગુજરાતી ભાષાના સર્ક્યુલેટિંગ અને પ્રચારમાં સુધારો લાવવાનો હેતુ છે. આ અભિયાનમાં ગુજરાતી ભાષાના સર્ક્યુલેટિંગ અને પ્રચારમાં સુધારો લાવવાનો હેતુ છે.

## ધસરોના ઉપગ્રહમાં ગુજરાતની લઘુ ઉદ્યોગ ક્ષેત્રની કંપનીનું મોટું યોગદાન

ગુજરાતના 15 એકમને આર એન ડી એમ એક્સએમઈ સેશનલ એવોર્ડ

ધસરોના ઉપગ્રહમાં ગુજરાતની લઘુ ઉદ્યોગ ક્ષેત્રની કંપનીનું મોટું યોગદાન. ગુજરાતના 15 એકમને આર એન ડી એમ એક્સએમઈ સેશનલ એવોર્ડ.

## સિદ્ધી ગૃપની સમૃદ્ધિ એન્જીનીયરીંગને માર્ફ્ટો એન્ટરપ્રાઇઝ એવોર્ડ મળ્યો

સિદ્ધી ગૃપની સમૃદ્ધિ એન્જીનીયરીંગને માર્ફ્ટો એન્ટરપ્રાઇઝ એવોર્ડ મળ્યો.



સિદ્ધી ગૃપની સમૃદ્ધિ એન્જીનીયરીંગને માર્ફ્ટો એન્ટરપ્રાઇઝ એવોર્ડ મળ્યો. સિદ્ધી ગૃપની સમૃદ્ધિ એન્જીનીયરીંગને માર્ફ્ટો એન્ટરપ્રાઇઝ એવોર્ડ મળ્યો.

# 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.

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.

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-

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





## Contact details

# SAMRUDDHI ENGINEERING

'SIDDHI HOUSE' 6, Virkunj Society,  
Near Vidyanagar School, Usmanpura,  
Ahmedabad - 380014.  
Gujarat - INDIA

Ph. No. +91 79 40244344, 27542909  
Fax No. +91 79 27545089

DOMESTIC ENQUIRIES : +91- 9377979021 | [samktg@siddhiindia.com](mailto:samktg@siddhiindia.com)  
EXPORT ENQUIRIES : +91- 9328229013 | [saexp@siddhiindia.com](mailto:saexp@siddhiindia.com)

Website: [www.abstube.co.in](http://www.abstube.co.in) | [www.steel-cops.com](http://www.steel-cops.com)

