



# ABS TUBES

**Samruddhi Engineering - A Leading manufacturer of ABS Tubes**

# About Samruddhi Engineering

2+ decades of precision



— Our products are used across multiple industries —

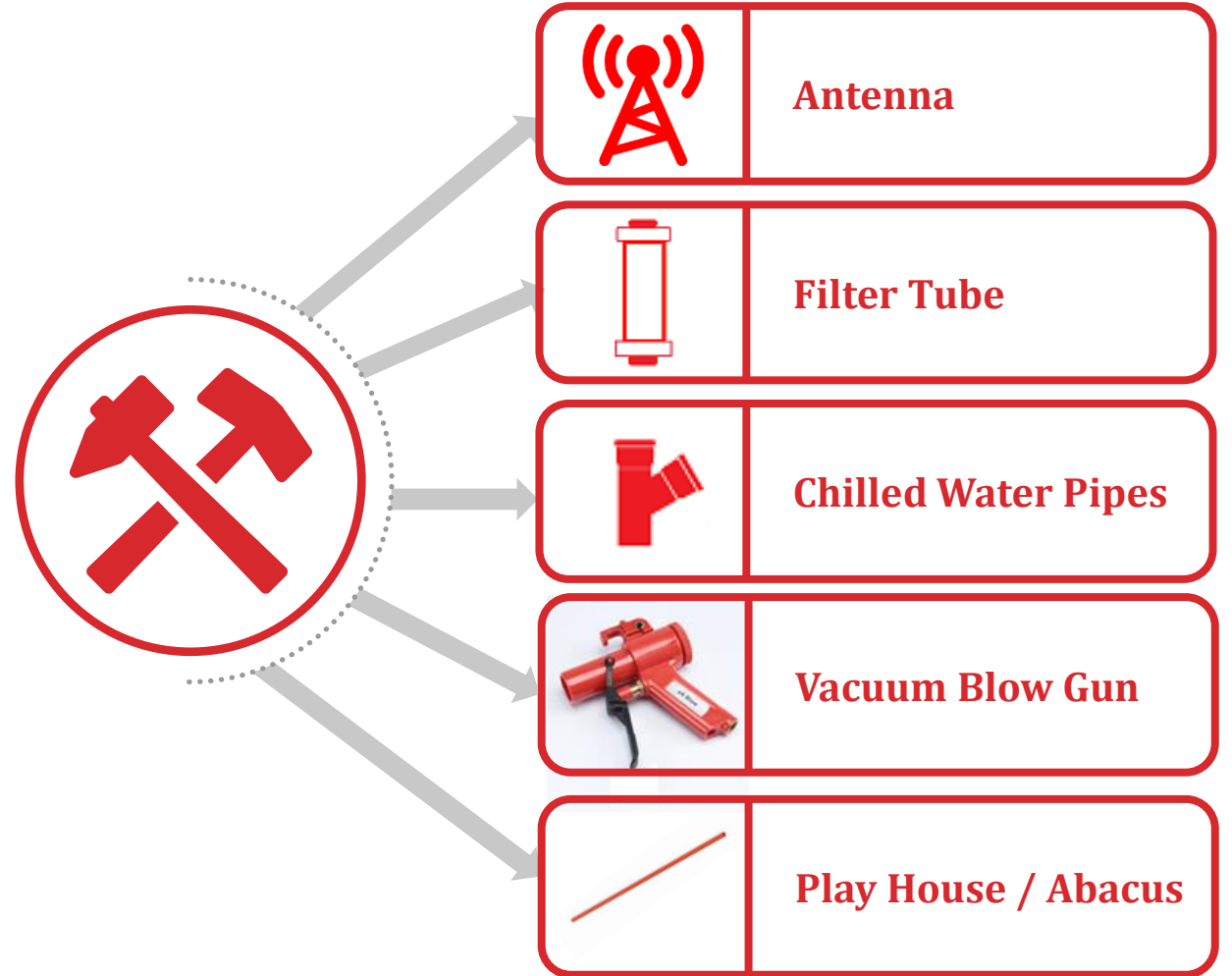
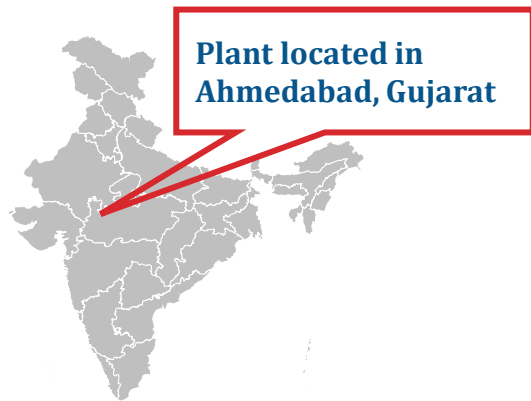


Who are we?

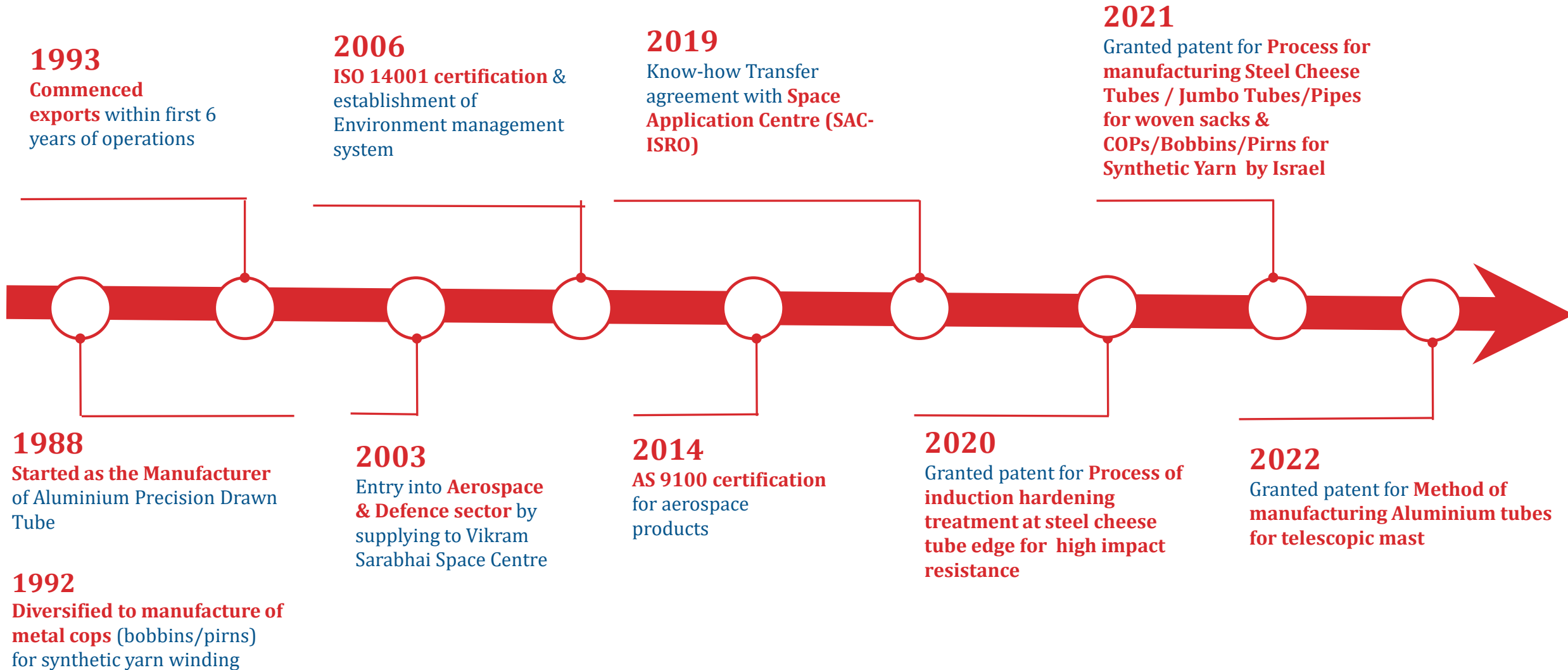
A leading manufacturer of world class **Acrylonitrile Butadiene Styrene - ABS** (an Engineering Plastic) Tubes.



Strategically located in Western India to wide range of industrial segments

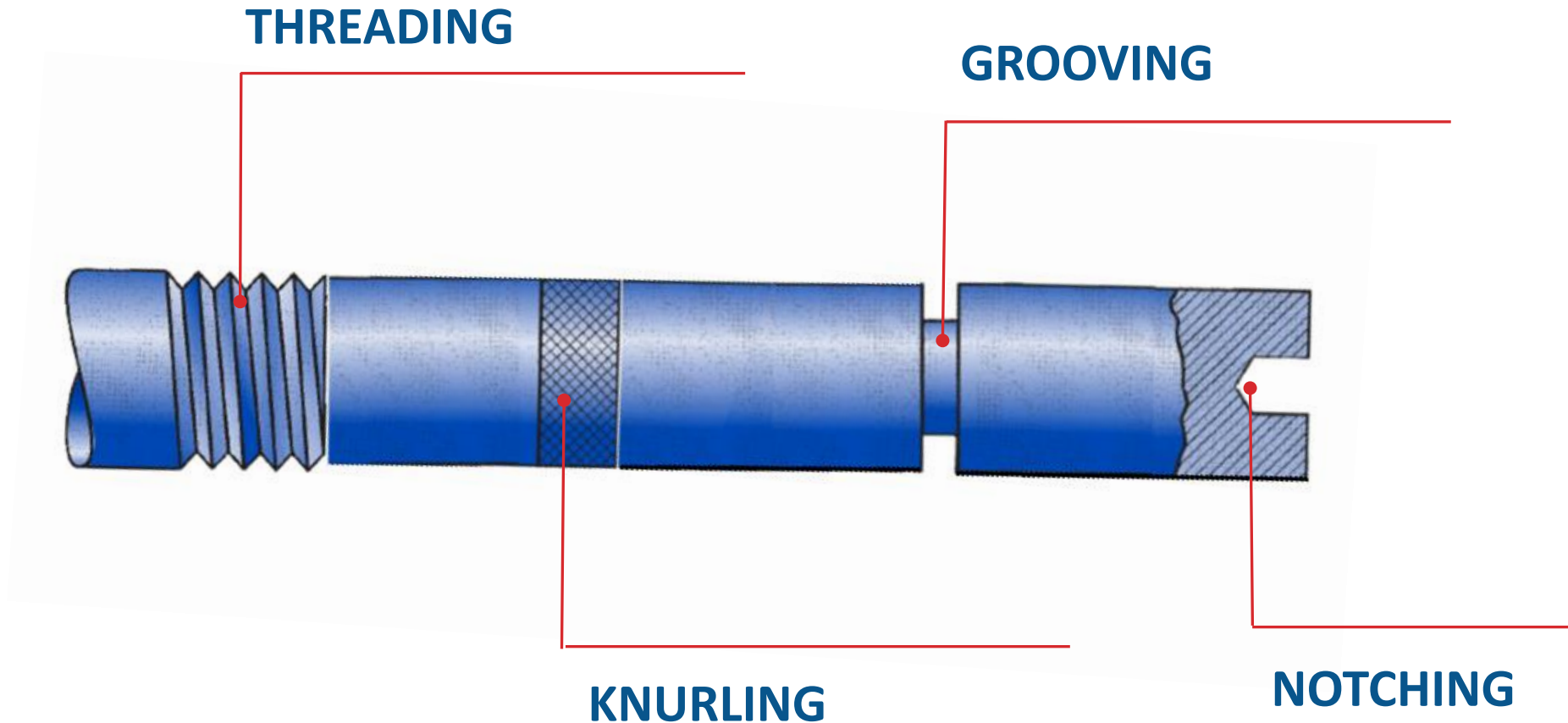


# Our innovation led Journey that aimed import substitution for India...



# Various operations possible on ABS

During the manufacturing of a part, a variety of machining operations and processes are needed to performed so as to acquire desired output. Few of them are **Threading, Knurling, Grooving, Notching, Plating, and other thermo forming operations.**



# Our manufacturing & quality assurance capabilities



Oven



Tube Measurement Machine



Universal Testing Machine



Hardness Tester



MFI Tester

# ..that helps us manufacture wide range of products



## Aluminium Precision Drawn Tubes



## Metal COPs & Accessories



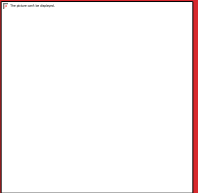
## Aluminium & Steel Cheese Tubes



## ABS Tubes



**30 million mtrs  
Aluminium  
tubes delivered**



**15 million  
metal cops  
exported**



**ANTI-STATIC**



**HIGH IMPACT**



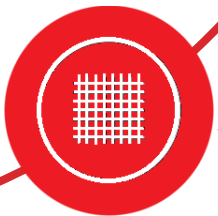
**UV STABLE**



**FIRE RETARDENT**



**HIGH TENSILE**



**GLASS FIBRE**

Grades of **ABS  
TUBES** available  
with  
**SAMRUDDHI  
ENGINEERING**

# ABS Tubes - Range Options



RANGE	
Outer Diameter	10mm to 75mm
Thickness	1mm to 4mm
Length	As per customer requirements



# ABS Tubes



NATURAL, BLUE,  
GREY, GREEN,  
BLACK, VIOLET,  
RED & MANY  
OTHER

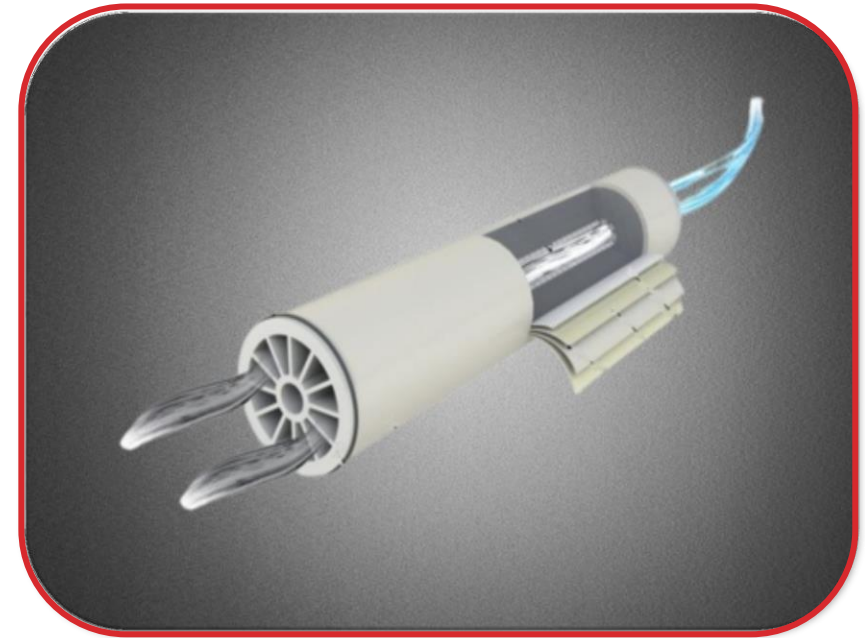


COLOR  
OPTIONS

# FILTER TUBES

FILTER  
CARTRIDGES

R.O.  
SYSTEMS

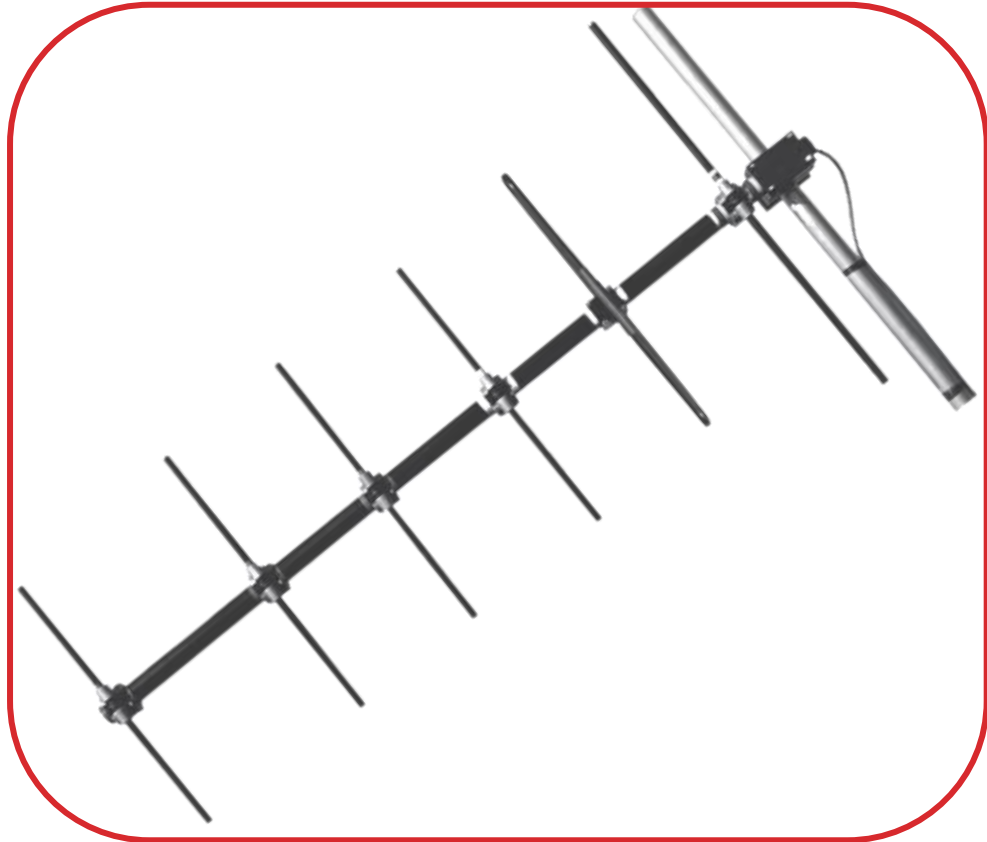


**DURABLE**

**WIDE TEMP. RANGE**  
**-40°C to +75°C**

**IMPACT  
RESISTANCE**

# ANTENNA



**Good surface finish**



**UV Stablized tube  
(optional)**



**Low Heat  
Conductivity**

# VACUUM BLOW GUN

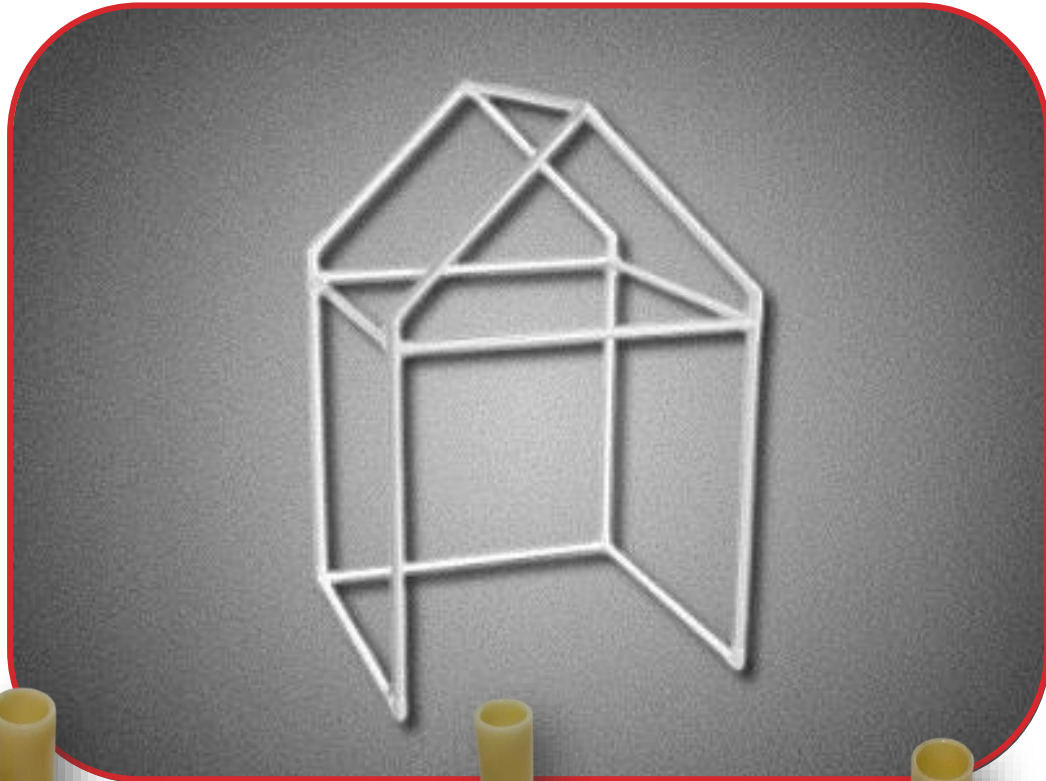
End forming can be done  
(End expansion & End contraction)

Good surface finish

Impact Resistance



# CHILDREN PLAY HOUSE & OTHER TOYS



**120°  
Connector**



**40°  
Connector**



**Normal  
Connector**

**Durable due to high  
Impact resistance**



**Light weight with  
High Tensile Strength**



**Good Surface Finish**

# 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

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

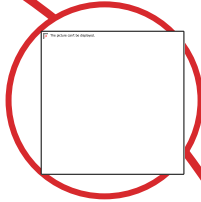


India Process for manufacturing of steel cops/ bobbins/ pirns for synthetic yarn

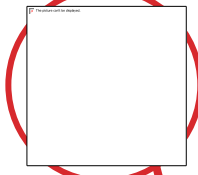


India A process for Preventing Deformation in the ends of Jumbo Aluminium Tubes

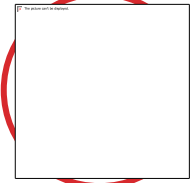
Why **Siddhi Group** is best suited partner for your business



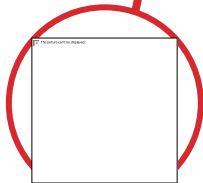
**State-of-the-art manufacturing facility with robust quality management processes that ensures reliability and consistency**



**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**



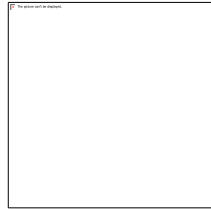
**Our demonstrated success of delivery in import substitution in 30+ years**



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



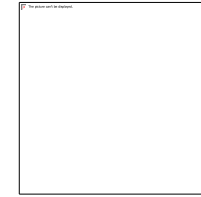
# Successful client case studies of co-development, innovation and problem solving



**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



**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

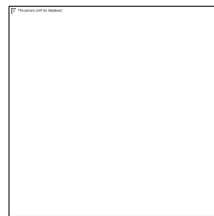
**15-20%**

lower weight leading to saving satellite launching cost



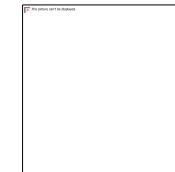
**2 Gold Medals**

from Society of Aerospace Manufacturing Engineer (2009, 2017)



**60%**

lower weight and zero reverse logistics



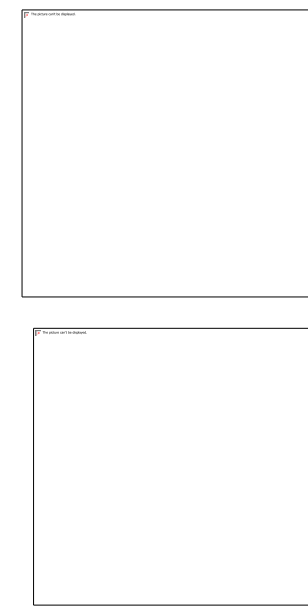
# 2 pronged approach to drive research and development within the group



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



## Building culture of innovation and continual improvement



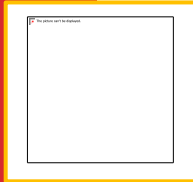
Monthly cadence of idea generation by involving shopfloor manpower (Karmayogi) to improve **product and processes**

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**



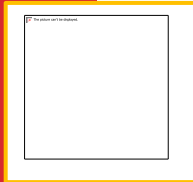
**Quarterly Karmayogi Meet**



**Graveyard for negative thoughts**



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



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







## Contact details

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