



SARU SILVER ALLOY PRIVATE LIMITED



HISTORY

Started Trading in
Non-ferrous Alloys

1900

India's first producer of Silver
Brazing Alloys & Fluxes

1948

Group Company SARU AIKOH was formed in technical
collaboration with Aikoh Co. Japan for the
manufacturing of Foundry Fluxes

1976

India's first producer of Solder
Wires (Cored & Solid) & Solder
Fluxes. India's first Extrusion
Press

1944

India's first Non Ferrous
Continuous Casting Plant for
the manufacturing of
Continuous Cast Phosphor
Bronze was set up

1960

Started production of EDM
Wires & formed another
Company by the name of
Saru Precision Wires

1984



HISTORY

Saru Aikoh had another technical collaboration with Nippon Thermo Chemicals, Japan to manufacture Continuous Casting Fluxes

1992

1998

Copper Semis, Nasik was acquired who are leaders in producing Nickel Silver Wires

1988

Silver Brazing Plant was reorganized to give greater focus on Brazing Alloys with the name of Saru Silver Alloy Pvt. Ltd.

1994

Premier Ingots was formed to manufacture Chromium Copper & other Copper Alloy Resistance Welding Electrodes

Silver Brazing Plant in Meerut, India

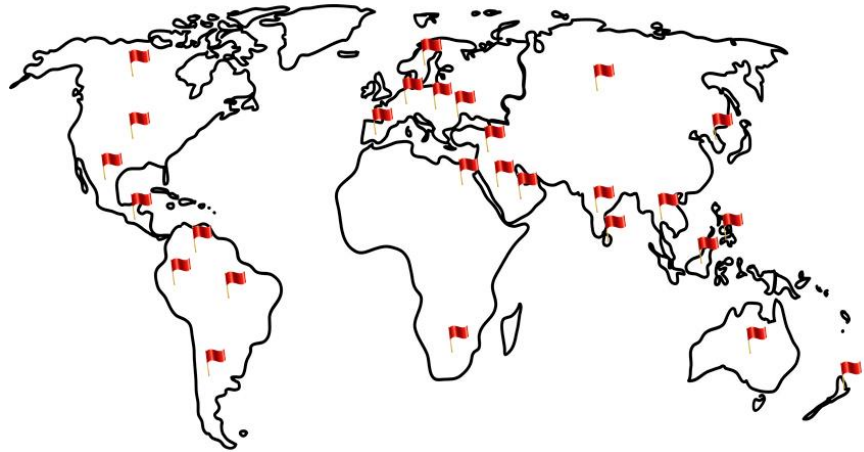




ABOUT US

Saru Silver is the largest and pioneer manufacturer of Silver brazing alloys in India and largest manufacturer in Asia for the high silver brazing alloys.

Saru Silver currently exports to more than 65 countries worldwide having more than 1000+ satisfied customers around the world.

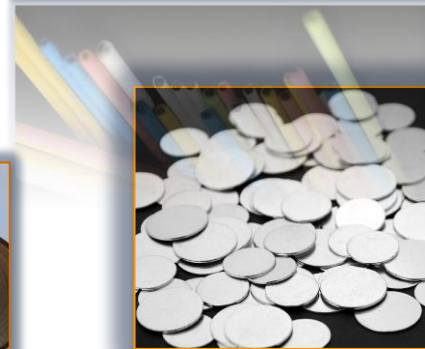
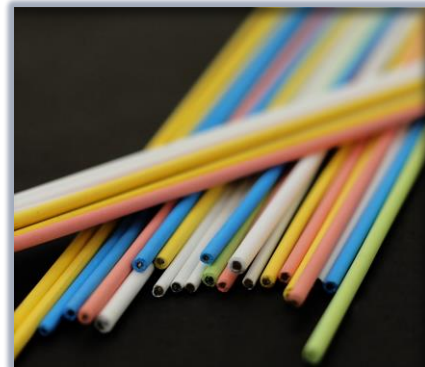




PRODUCT PORTFOLIO

SILVER BRAZING ALLOYS

- Silver Brazing Rods & Wires
- Silver Brazing Strips
- Silver Brazing Preforms (Washers, Rings, Shim pcs, U-Pcs, Discs, Profile etc.)
- Silver Brazing Flux Coated Rods. (Standard, Reduced, Very Reduced Coating) (Full, Half Flexible)





PRODUCT PORTFOLIO

COPPER PHOS BRAZING ALLOYS

- Copper Phos Brazing Rods (CuP Rods)
- Copper Phos Brazing Rings
- Copper Phos Brazing Wires
- Copper Phos Brazing Granules
- Copper Phos Tin Brazing Rods
(Bare & Flux Coated)





PRODUCT PORTFOLIO

OTHER BRAZING ALLOYS

- Brass Brazing Rods & Wires
- Brass Brazing Strips
- Brass Brazing Rings & Preforms
- Brass Brazing Flux Coated rods
- Nickel Brass Brazing Rods & Strips
- F Bronze: Rods & Strip
- CuCoMn Alloys
- Any other Grade as per Customer specification





INDUSTRIES WE SERVE



AUTOMOTIVE INDUSTRY



AEROSPACE



ELECTRICAL & POWER



HVAC



ROTATING MOTORS



DIAMOND CUTTING TOOLS



SATELLITES



ATOMIC & NUCLEAR ENERGY



ORDNANCE FACTORIES



PUMP INDUSTRY



OIL & GAS



MEDICAL



OUR SUPPORT SERVICES

Saru Silver is your complete source for Technical information, Consulting services and Assistance

On-site Brazing Expertise
(Engineering services &
Training of brazing)

Consulting services (Stronger
& long lasting joints and
helping in OEM's design)

Value Engineering by
suggesting an economical
alloy without compromising
on quality

Improve brazing processes
(Efficiency, Reduce alloy use &
first pass yield and Economic
brazing solutions)

Lab capabilities (Helping the
customer to understand what
grade of brazing alloy they
are currently using including
complete chemical analysis
and mechanical properties)



Performance & Continued Improvements

2002

New production line for manufacturing of brazing alloys
Preforms such as rings, washers, discs, segments profiles as per customer's application and demand

2007

New production line for Flux coated brazing alloys

2009

Awarded as Export house by Govt. of India and status was elevated to Star Export House in 2014

2010

New Extrusion Line for manufacturing AgCuP and CuP alloys

2011
-14

Induction melting furnaces, Continuous casting plant, Automated preform manufacturing machines, Billet heating equipments and Wire flattening line



Performance & Continued Improvements

2015

Second Extrusion Line

2016

Ring manufacturing plants, Wire flattening machines, Hot wire drawing machines, Induction billet heaters, Ultrasonic pickling plant and bright annealing furnaces

2017

Additional Ring manufacturing plant, Automatic coilers

2018

Additional Strip rolling mill. New pickling line for second strip rolling mill plant

2019

Third Extrusion line. This Extrusion line dedicated to wider strips manufacturing projects having width 60mm and above. ICP-OES to check all elements including impurity levels & RoHS



Performance & Continued Improvements

2020

New line for Sandwich Brazing Alloys. Trials currently running and commercial production is planned to start from December 2023

2021

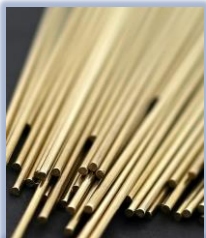
New plant for CuP and AgCuP Alloys and commercial operations started from March 2022



CAPABILITIES



Saru Group currently employs more than 800 people of which 200 people working in Saru Silver. Saru Silver employees consists of a mix highly experienced employees (some of them having more than 30 years experience) & qualified technical & commercial team.



In Rods we have the capability to manufacture lengths down from pellets to Long Rods of 2000mm. Rods having a minimum dia of 1 mm upto 8 mm can be cut in desired lengths



Saru Silver can manufacture wires down to dia 0.20 mm upto 5 mm diameter in coils or layer wound on spools for automatic dispensing application. In Strips, we can manufacture a thickness down to 0.05 mm & width upto 100 mm.



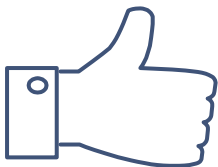


CAPABILITIES



Flux Coated Rods can be supplied with full flex or half flex as per the need of the customer. Further percentage of coating can also be customized. Vibrant colors for color coding as per grades of product including printing on rods with name of product, company & logo can also be done. Beautiful looking packaging with even 4 rods for the ease of retailing is being done.

Saru Silver specializes in Private Labeling wherein we ensure we keep customer details confidential, print logos on the product & packaging as supplied by customer having no name of Saru Silver in case desired.



As a specialist in the brazing industry and having the advantages of being the oldest & highly experienced, we offer the most comprehensive & widest range of brazing alloys available. Saru brand is recognized as a reliable & dependable supplier offering quality products at one of the most competitive pricing available in the world.



CAPABILITIES

All our materials pass through our state of the art laboratory, for chemical testing of main elements and impurities by Wet Analysis and ICP



Wherever the customer demands analysis of mechanical & physical properties, our lab is equipped with the most advanced Hardness, Elongation and Tensile Testing machines.





CAPABILITIES

Saru Silver has made considerable improvements in the manufacturing process of rings with the most updated plant and machinery resulting in meeting customer expectations. We are shipping millions of pieces every month to hundreds of customers in the HVAC and Non-HVAC sectors.

The improvements include following:

- Induction melting and continuous casting for homogenous & high quality of castings.
- Automatic Wire drawing machines to control Wire Dia within $\pm 0.02\text{mm}$ tolerance
- Automatic Ring manufacturing machines to manufacture controlled ID / OD of Rings, S-Shaped Rings Joint and controlled Gap.



COUNTRIES

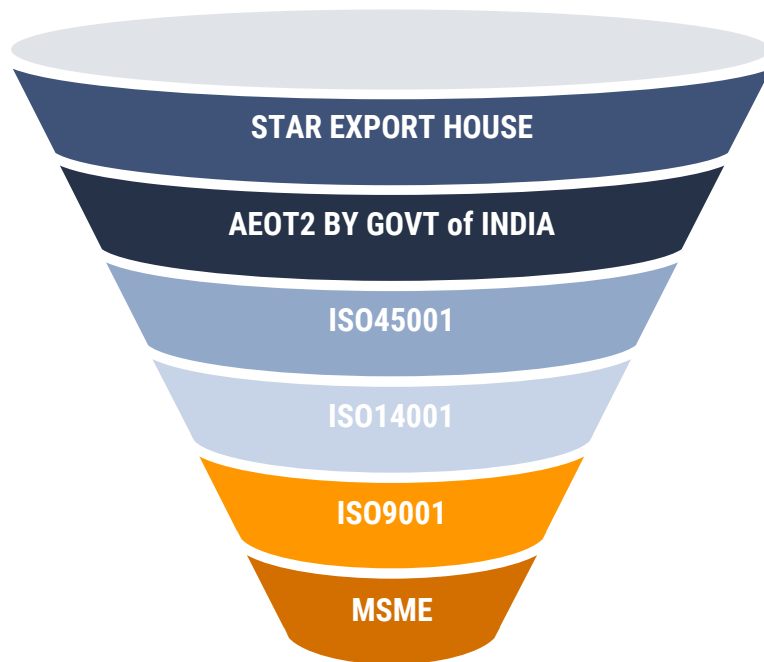


Exporting to more than 65 countries worldwide which include:

- ASEAN Countries
- African Countries
- Australia
- Canada
- Czech Republic
- Estonia
- France
- Finland
- Germany
- Greece
- Italy
- Mexico
- Russia
- Sweden
- Slovenia
- Saudi Arabia
- Turkey
- USA
- UK
- UAE



CREDENTIALS





Policies implemented & Compliant On-site

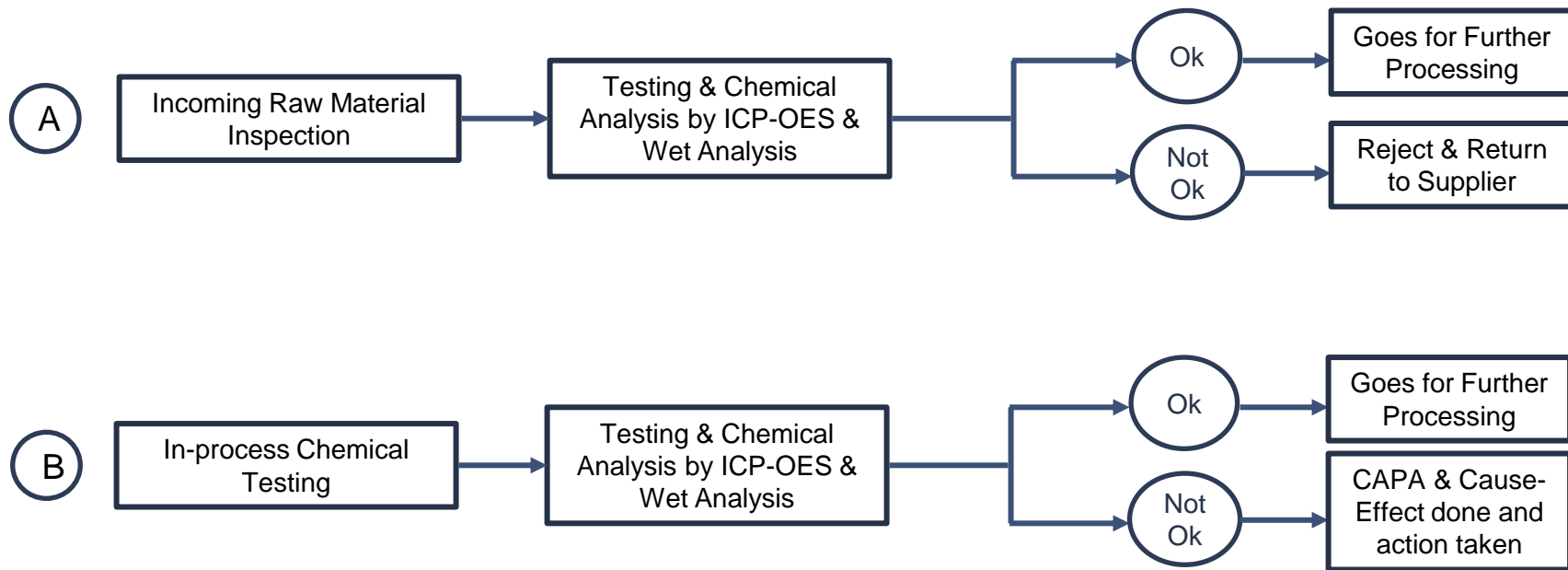
- Employee Protection
- Conflict Minerals
- Non-discrimination
- Supply Chain Security
- Customer Confidentiality & Intellectual
- IMS
- EHS



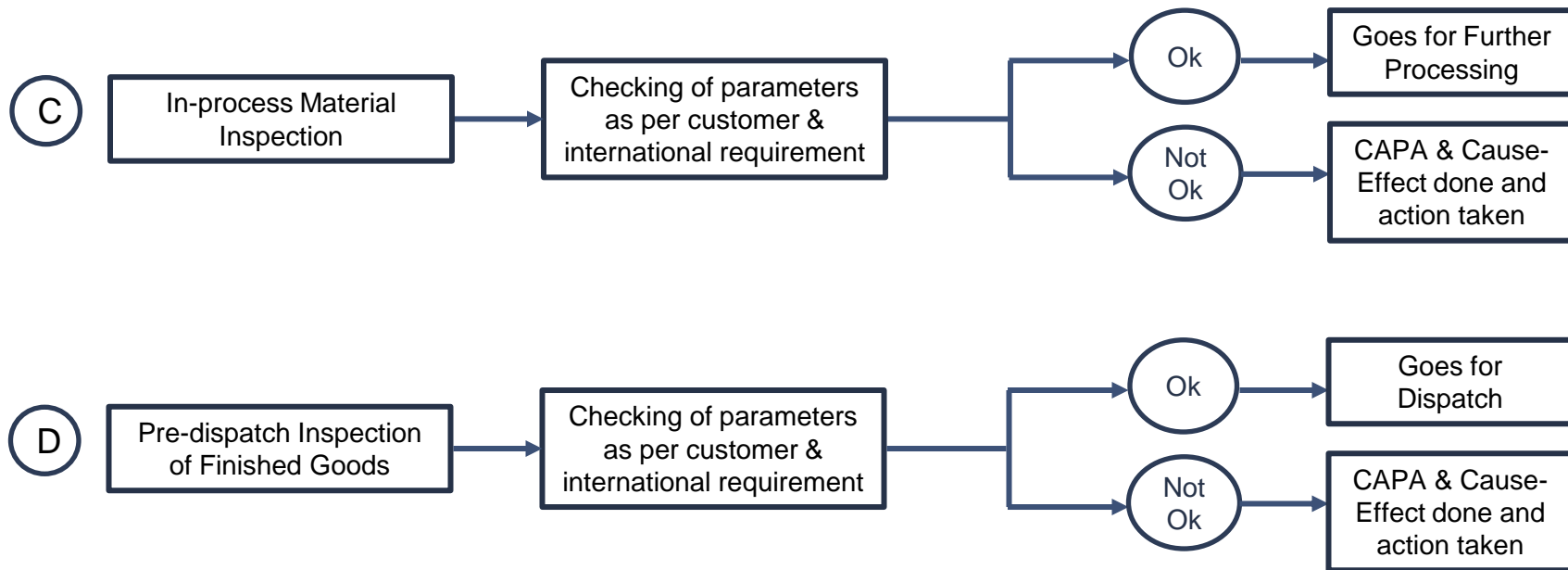
- Environment Management
- Labour Management
- Security Management
- Energy Management
- Permit: Regulations, Law, Guidelines
- Chemical Management
- Sexual Harassment



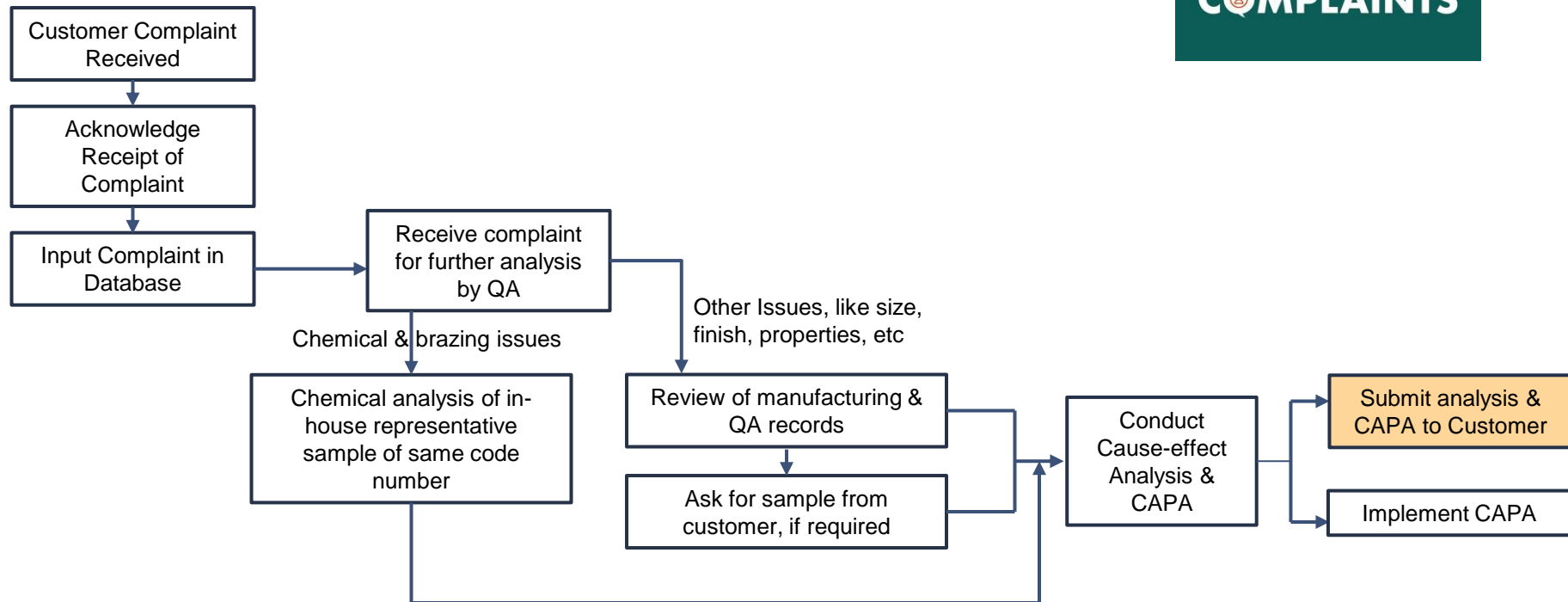
QUALITY ASSURANCE

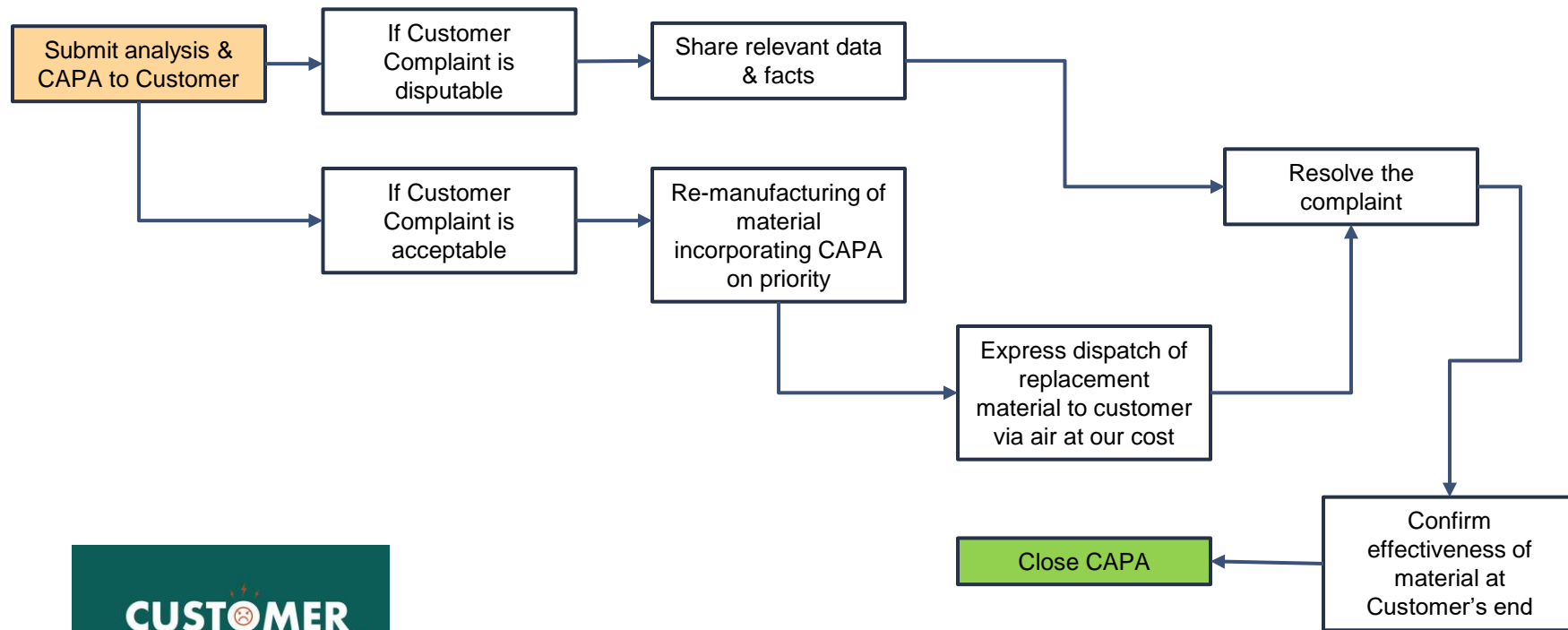


QUALITY ASSURANCE



CUSTOMER COMPLAINTS







THANKS!

You can find us at
info@sarusilver.com
www.sarusilver.com