



Trust TPRS to explore Glass

TPRS GLASS

TRUST TPRS TO EXPLORE GLASS

www.tprseneterprises.in



We are a trusted Architectural, Automobile, Elevator, Escalator and Appliances Glass solutions provider in India. We hold maximum market share in Automobile OE Segment, Architectural Segment and Elevator segment. We also export Automobile and Architectural glasses to UAE, UK, African and Asian countries.

TPRS GLASS

TRUST TPRS TO EXPLORE GLASS

TPRS is a 1000+ member family and we specialise in toughened safety glass, laminated safety glass, screen printed safety glass, digitally printed safety glass and insulated glasses for Architectural, Automotive Elevators and Escalators segment. We have obtained necessary certifications viz. ISO 9001 : 2015, E Marking, IATF 16949, COP, ISI 2553 Part I & II, CE Marking, AS 1288:2006, DOW Corning Quality Bond Certification.

We have many established laboratories in which all the testings are conducted in line with required standards. We support rapid new product development, supply quality products and adhere to delivery commitments and we value our customer satisfaction which is a driving force in all walks of our development.

TPRS GROUP



Chairman – Mr. S. Sundaravel B.E., M.B.A., DIL

-  Triplex Glass Works, Pondicherry, India
-  TPRS Glass, Pondicherry (Unit – 1)
-  TPRS Glass, Pondicherry (Unit – 2)
-  TPRS Glass, Tamil Nadu (Unit –4)
-  TPRS, Dharwad (Unit – 3)

Highlights

ANYTHING IN GLASS

Glass Processing Perseverance
Started by 1995

27
years

1.5
billion

Yearly INR Turnover
From 5 Plants

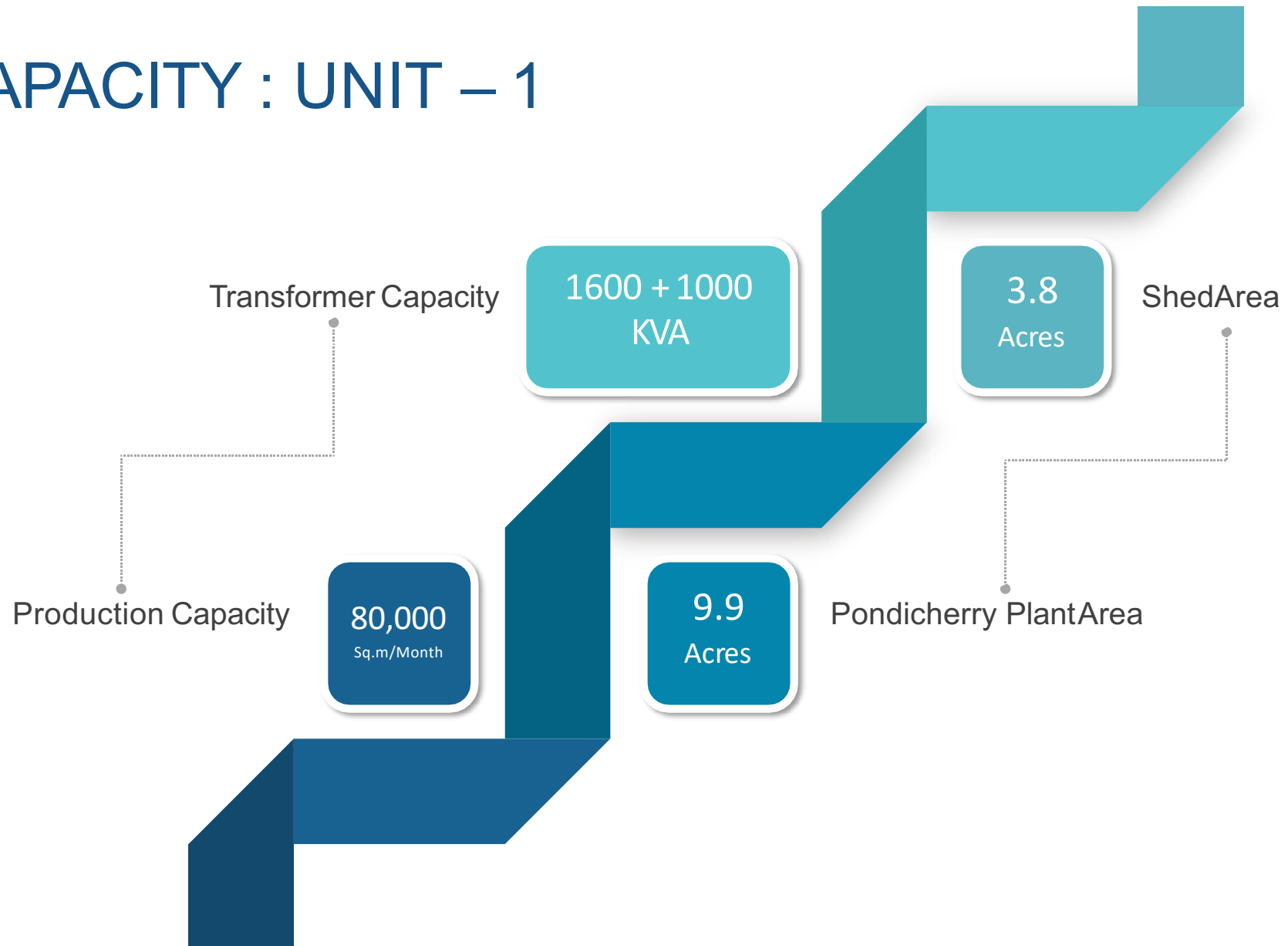
Team Members
(Inclusive of 100+ women members)

800+

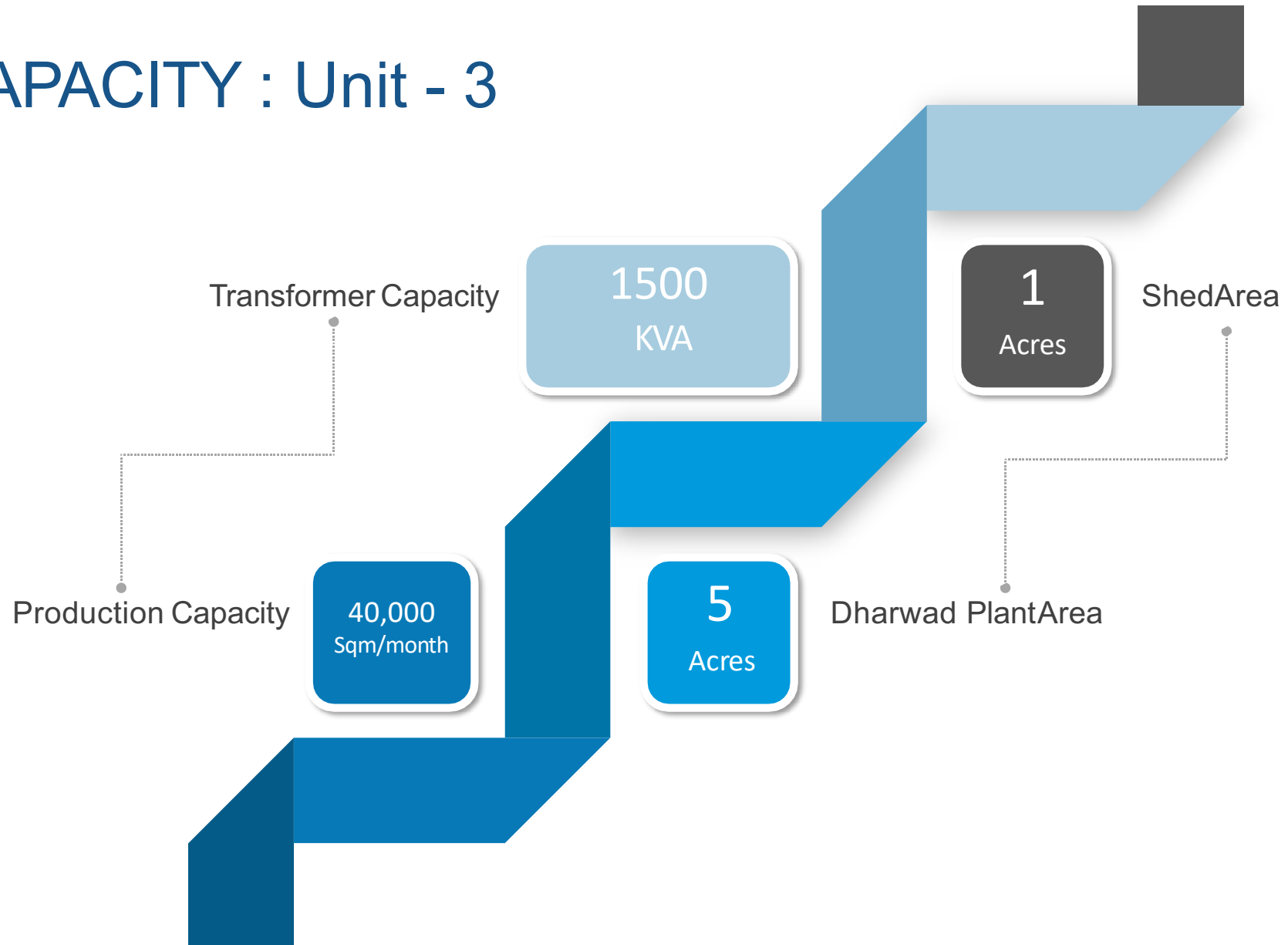
60+

Iconic Customers
Overseas tie-up including
OEM's & Automobile luxury
Bus Manufacturers

CAPACITY : UNIT – 1



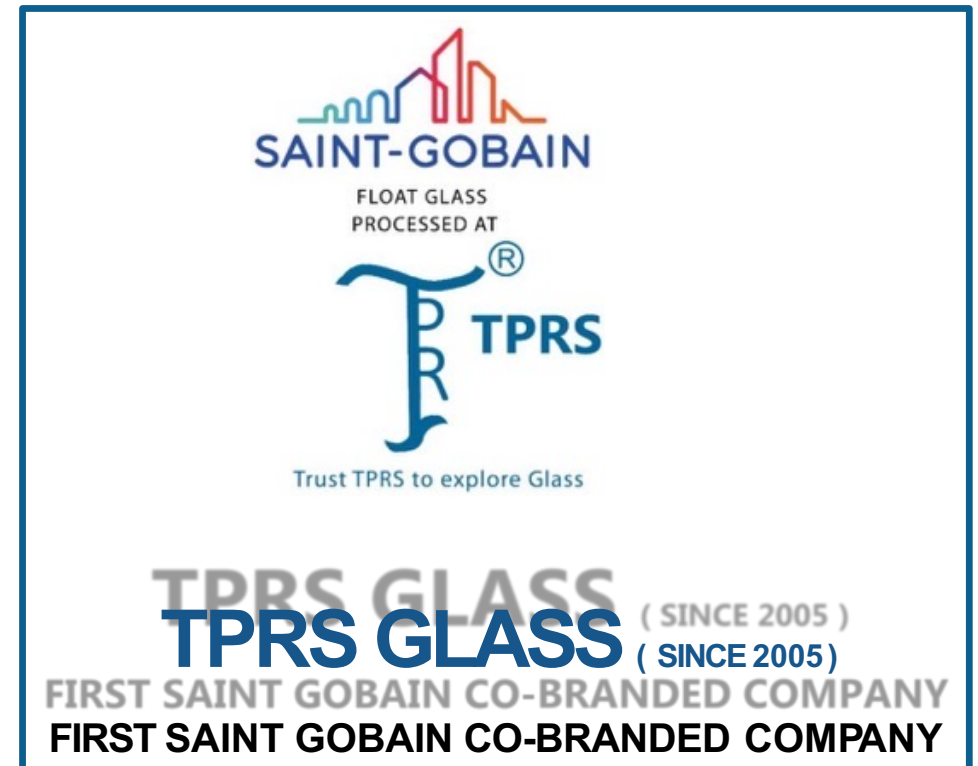
CAPACITY : Unit - 3



SAINT GOBAIN ASSURED QUALITY



- We are validated for entire range of performance glasses of Saint Gobain
- TPRS holds all low E performance glass of Saint Gobain
 - Planitherm (PLT)
 - Nano (KT)
 - Nano Silver (KS)
 - Envision (SKN)
 - Xtreme
- We have done projects in all the above mentioned glasses

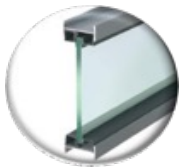


RANGE OF PRODUCTS



Automotive W/ Frame

- Sliding W/F
- Top Fixed and bottom Sliding W/F
- Glass in Glass concept



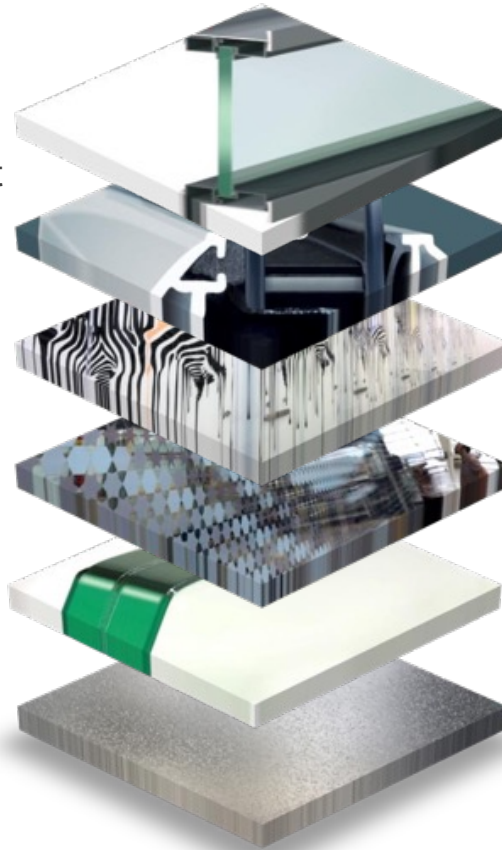
Single Glazing Unit

- Bend
- Beveling
- Switchable Glass
- Toughened / HS
- Solar glass
- Frosted Glass



Double Glazing Unit

- DGU with Blinds
- Lamination-DGU
- Georgian Bars
- Custom Shapes



Digital Printing

- Textures
- Patterns
- Translucent
- Customized Images



Ceramic Printed Glass

- Anti Skid
- Gradation
- Any RAL colors



Laminated Glass

- Mesh Lamination
- Acoustics
- Colored PVB
- Bend Lamination



AUTOMOBILE CAPABILITIES

FRONT WINDSHIELD

CAPACITY: 3500 buses per month

We have achieved up to 2600 buses/month.

TOUGHENED GLASS –

(Two Processing Lines –PY &
DWD)

CAPACITY: 4500 Buses per month

We have achieved up to 3500 Buses/Month

This includes AC and NON AC Buses

WINDOW FRAME

CAPACITY: 1500 Buses per month

We have achieved up to 800 Buses / Month

Frame manufacturing and assembly inhouse.

Processing line

(Four Furnaces, Forvet Machine
Seamer Machine)

4 Furnace for tempering in which 3 furnace have bending facility (R2000 to R33000)

Forvet Machine for rapid and precise drilling and milling

Seamer Machine for automatic grinding

Water Jet machine for precise cutting of unique shapes

Screen Printing – 3 – Screen development till printing inhouse

Capacity :

Maximum lamination of
2300 mm × 4700 mm with PVB / SGP –
Double / Multi layer

Capacity :

Machine processing line :
2400 mm × 3500mm

Manual processing line :
2400 mm × 4500mm

Capacity :

Maximum size for screen printing :
2400 mm × 3800 mm
Maximum size for digital printing :
2400 mm × 4700 mm

Forced convection based tempering lines

Heat soaking facility to ensure the best toughened glass

Roadmap of Quality



2007 - 2008

ISO 9001:2000, E-Mark & ISI



2009 - 2010

ISI, SGC 2 STAR , ISO 9001:2008 & TS 16949 : 2009, COP SGC 3 Star



2011 - 2012

ISO 9001:2008 ISI & TS 16949 : 2009, SGC 3 star



2013 - 2014

ISO 9001:2008 & TS 16949 : 2009 , SGC 3 Star,
ISI & CE Certification



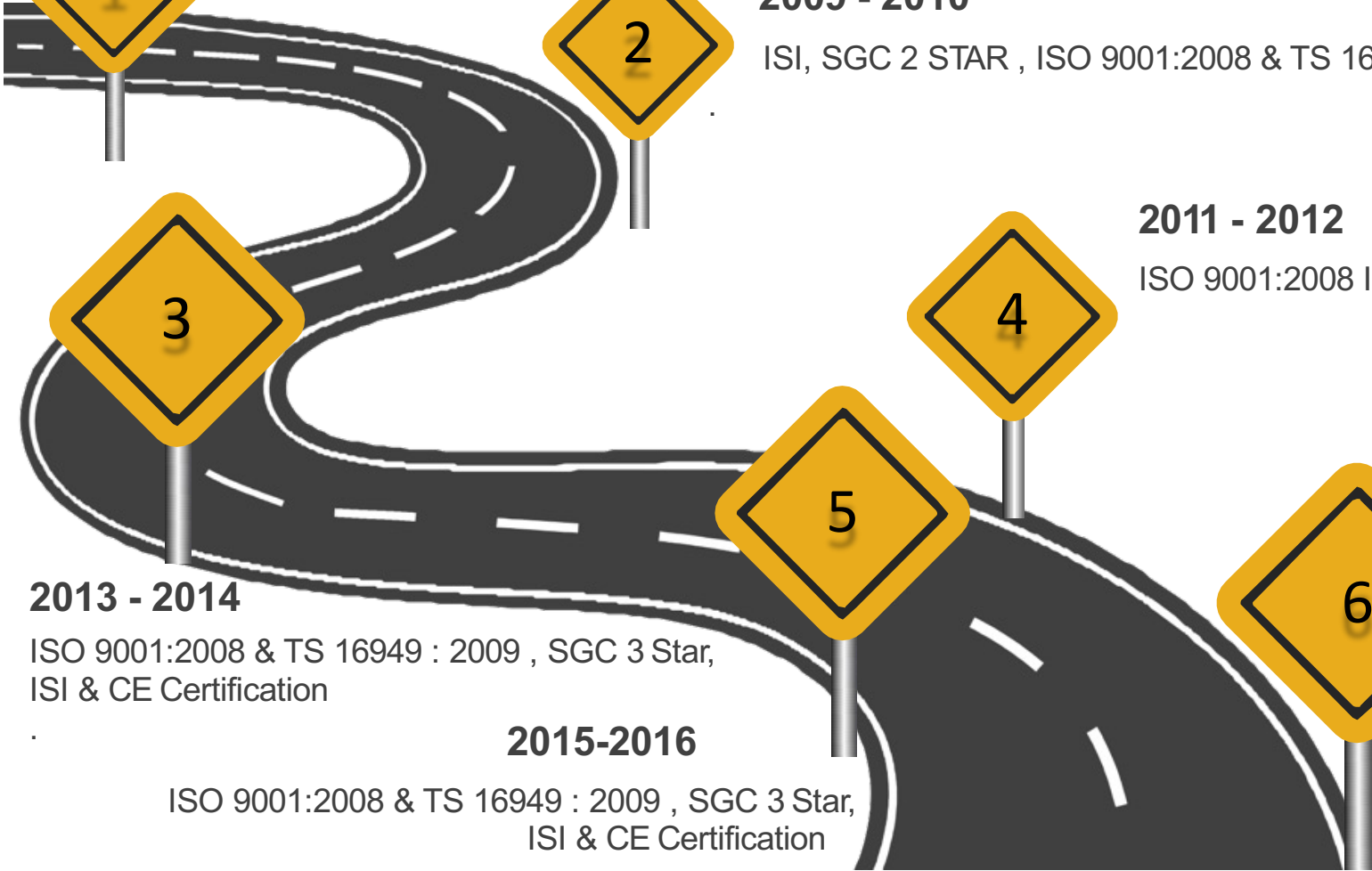
2015-2016

ISO 9001:2008 & TS 16949 : 2009 , SGC 3 Star,
ISI & CE Certification



2017 - 2018

ISO 9001:2015 & IATF16949 : 2016,
SGC 3 Star, ISI & CE Certification,
AS Certification.





LAMINATION CAPABILITIES

TPRS LAMISAFE

- ❖ Customized bend lamination
- ❖ SGP interlayer for effective impact resistance
- ❖ TPRS Wizard glass – Switchable glass
- ❖ Color and transparent laminated panels
- ❖ Mesh laminated panels

Capacity :

Maximum lamination of
2300 mm × 4700 mm with PVB/ SGP–Double / Multi layer

12,000 Sq. Meters + of glass per month

Upgraded technology with dust-free clean room (100,000 class) and auto-rewinding and motorised PVB pulling structure to protect the PVB's quality while laying on glass

Standard quality test

Lamination



Quality Tests

Boil test
Optical distortion test
Secondary image test
UV chamber test
Penetration test
Impact resistance test

Quality Tests

Head form
test Pummel
Pendulum test
Light transmission test
Fracture and Adhesion
test

Infosys, Hyderabad
SKN 454 IGUPanels

IGU CAPABILITIES

TPRS ECOSAFE

- ❖ Customized bend IGU
- ❖ Argon filled panels for effective insulation
- ❖ IGU with Georgian bars
- ❖ Heavy laminated panels
- ❖ Intricate shapes of DGU
- ❖ IGU with sleeves

Capacity :

Machine processing line :
2400 mm × 3500 mm

Specialized processing line :
2400 mm × 4500 mm

12,000 Sq. Meters + of glass per month

Specialized process for intricate shapes and designs – Bend IGU - Step Glazing and triple glazing also available

Robotic Sealant facility for insulating panels – ensuring smooth and aesthetically superior glazing finish



TPRS ECOSAFE

IGU highlights

More than 10 years of expertise in IGU

Serviced 1million SQM + of IGUglass



Standard quality test

IGU



Quality Tests

Peel adhesive test
Butterfly test
Dew test
Desiccant test
Argon Gas
Analyser

Quality Tests

Ratio test
Parallel test
Vacuum test
Shore A hardness test
Elasticity test

DOWSIL – Quality Bond



TPRS'S HIGH QUALITY ECOSAFE GLASS

IS ASSURED BY DOWSIL

We practise and maintain regular testing of IGU. To assure our process and product quality Dowsil has provided their quality bond certificate by regular audit.

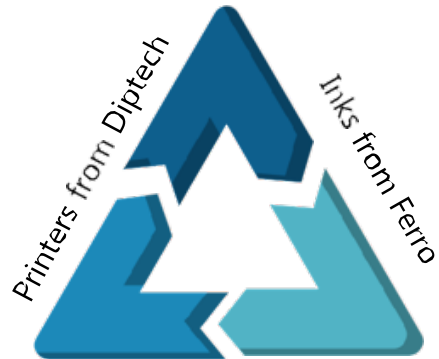
We are the only processor in South India to hold Dowsil's quality bond certification



TPRS

DIGITAL PRINTING

Only Indian processor – World's prestigious (Ferro – DIPTeCH GPI) digital ceramic printing machine for glass



Inhouse design and graphics team



TPRS WINDOW FRAME

Window Frame highlights

More than 10 years of expertise in W/F

Serviced more than 50,000 buses

Only Indian glass solution provider to
have inhouse window frame unit for
Automobiles

First Indian processor to have glass in glass
solution for buses





W/F CAPABILITIES

TPRS WINSAFE

- ❖ Sliding Window with Glass
- ❖ Top Fixed and Bottom Sliding window with glass
- ❖ Glass in Glass Window

Capacity :

Machine processing line :
2000mm X 1600mm

Capacity : 1500 Buses/Month

At present we are doing 800 buses/Month and in this 450 buses are with glass in glass concept.

End to End Inhouse Integrated Process

Standard quality test

Window Frame

Quality Tests

- Peel adhesive Test
- Mechanical Strength Test
- Fatigue Test
- Corrosion Test



AIS 068

Quality Tests

- Water Spray Test
- Vibration test
- Tubular Impact test
- Coating Thickness Measurement Test

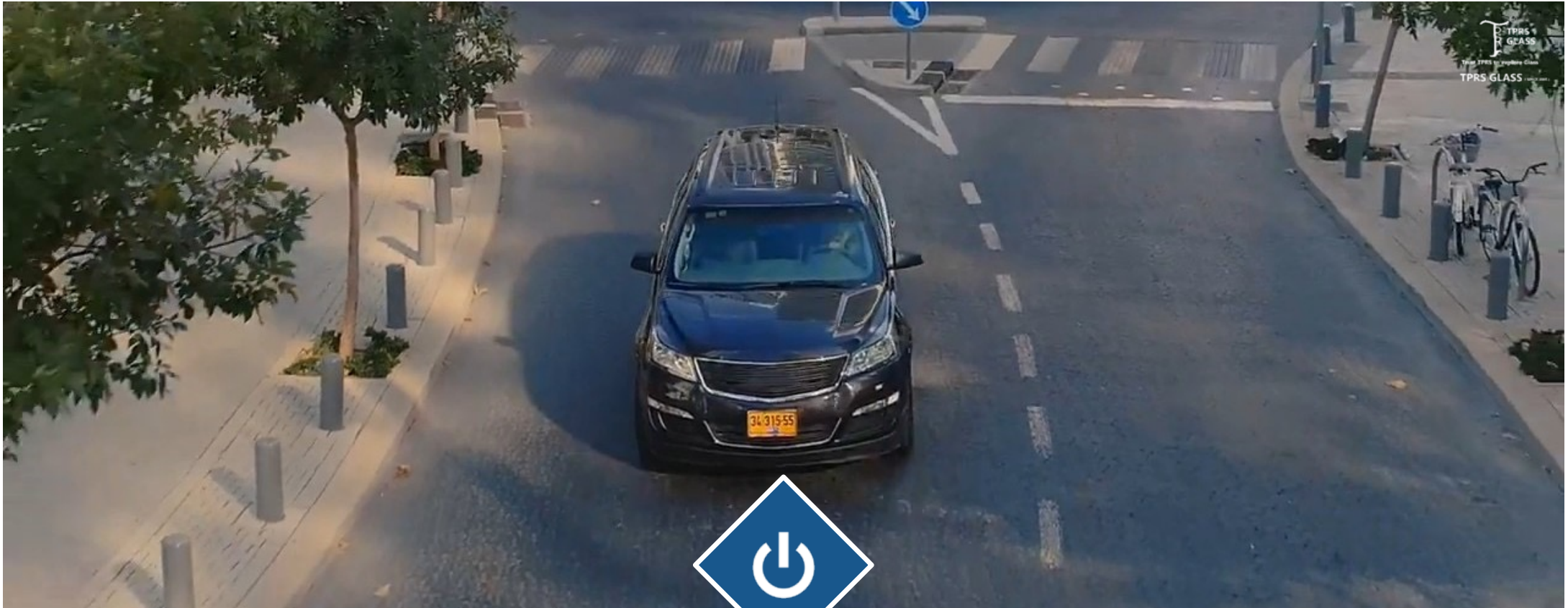


CURVED GLASS CAPABILITIES

TPRSARCHSAFE

- ❖ Toughened bend glass
- ❖ Single-axis bend glass
- ❖ Multi-axis bend glass
- ❖ Laminated bend glass

INHOUSE DIE MAKING TEAM FOR YOUR UNIQUE DESIGNS



DYNAMIC WINDOWS

Dynamic glass that switches from transparent to varying degrees of opaque



LAMINATED LCG

- Blocks 99 % of light
- Dimming for dynamic shading and complete control
- Maintain views to the outside
- Reduce Glare and harsh sunlight
- Mitigates lighting, heating and cooling expenses for energy control



HYBRID DISPLAY

Dynamic glass that can be used as digital banner

LAMINATED LCG

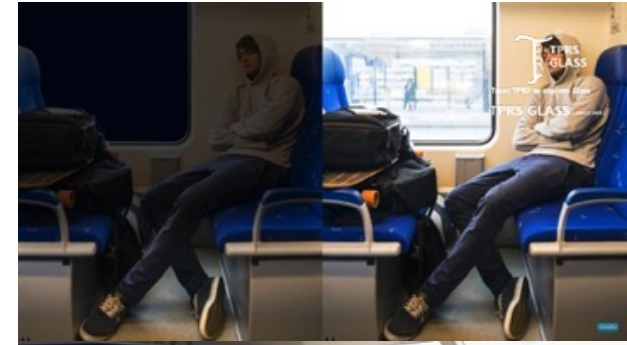
Ultra-low haze with customized thickness

Seamless cutting, laminating and installation process

Embedded for durability, reliability and innovative mobility solutions

Easy maintenance and cleaning

Custom integration with IOT and any mobile applications



APPLICATION OF SMART SOLUTION

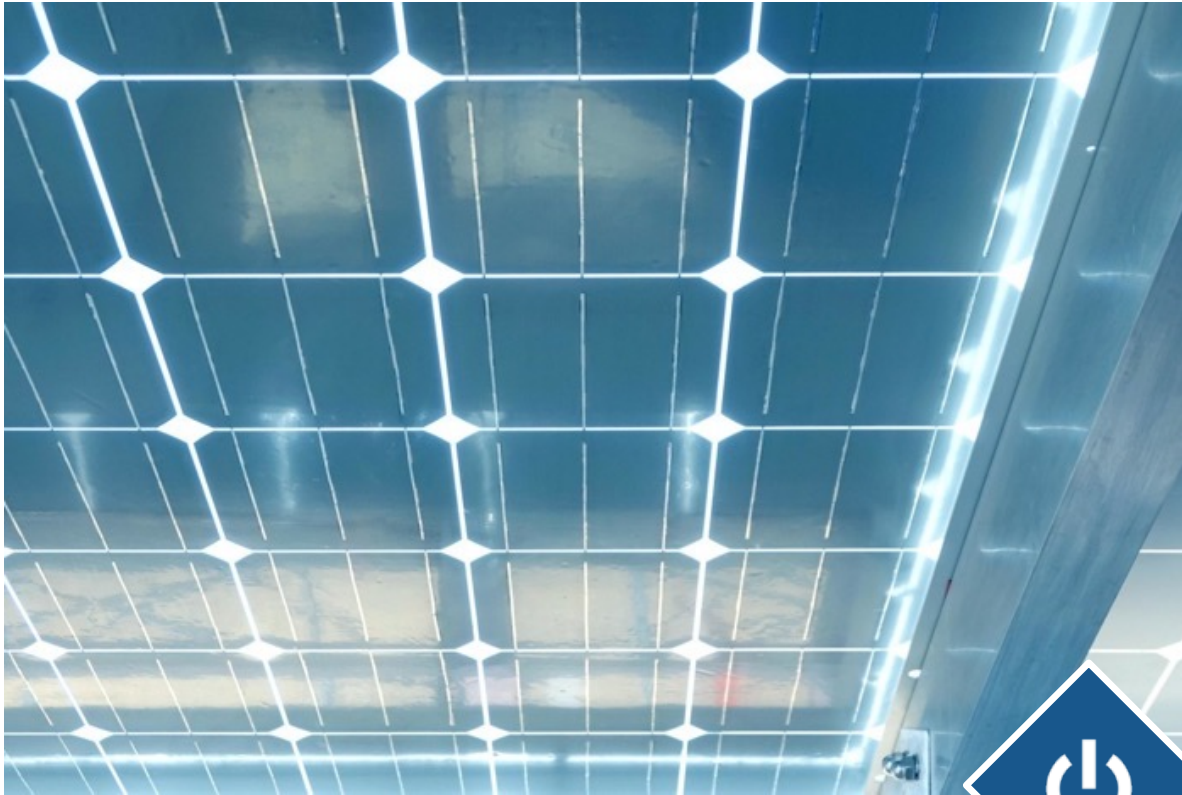


INNOVATIVE SOLUTION

INNOVATIVE PROJECTS ACROSS GLOBE

Informative safety signs on rear windshield to communicate safety messages

In association with Daimler the smart car can be used as display to project time and location, which would get disconnected when engine starts



FUTURISTIC SOLUTION

INNOVATIVE GLASSES UNDER DEVELOPMENT

Transparent solar glasses can be used as sustainable energy generation

Bullet proof glasses would ensure the maximum safety of a passenger



HEADS-UP DISPLAY

Heads up display can be used for effective and futuristic driving experience.

CAPABILITIES



1. QUALITY

Qualified engineers to ensure product & process compliance to international standards

Product documentation and procedures



2. INHOUSE DEVELOPMENT TEAM

Inhouse graphic design team

Inhouse product development team

Inhouse die making team for curved glasses

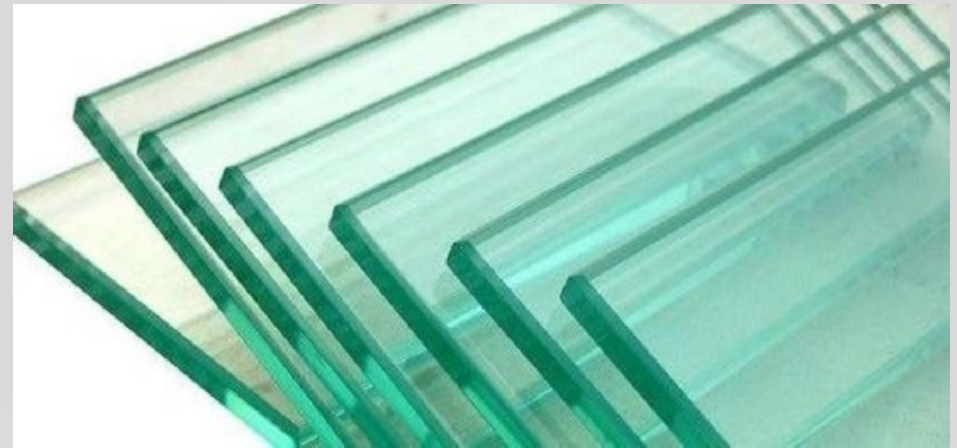


CAPABILITIES



3. PRECISION CUTTING & CUTOUTS

CNC cutting machine, waterjet machine, Forvet machine for highly precise cutting



4. FINE FINISHING & FINEPOLISHING

WorkCentre machine, CNC polishing and various machining process to achieve all your requirements with complete aesthetics

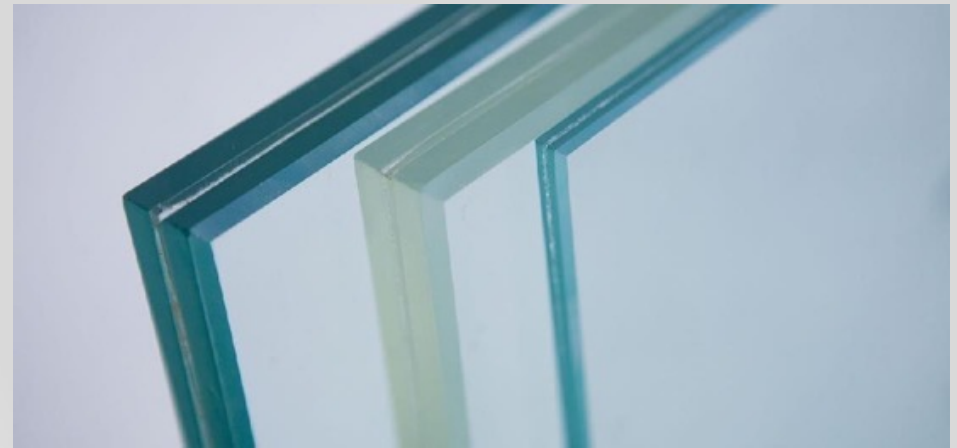


CAPABILITIES



5. PRINTING

We print durable single or multi-colored textures, designs or photorealistic images to merge with your theme



6. LAMINATION

Step lamination & multi-layered lamination

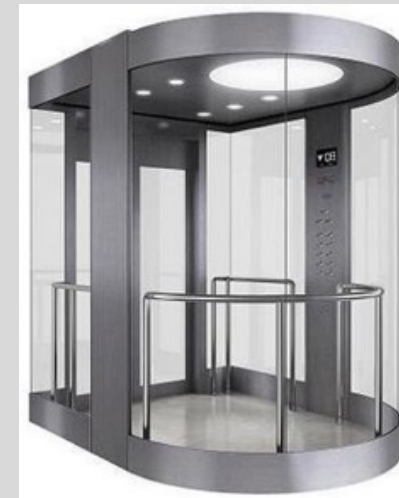


CAPABILITIES



7. SWITCHABLE GLASS

Switchable glass for easy transition



8. CURVED LAMINATED GLASS

Curved panel for greater visibility
We have inhouse die making team to provide endless solutions



CAPABILITIES



9. PACKAGING & LOGISTICS

All type of safety package done inhouse

Fleet of vehicles for timely delivery at your end



10. CRYSTAL CLEAR VISIBILITY

TPRS is specialized in processing glasses with minimal distortion



CERTIFICATIONS

We are certified under Indian, European and Australian Standards



ISO 9001:2015



IATF 16949:2016



ISI 2553 Part 2



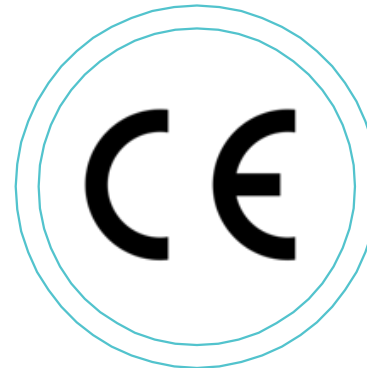
ISI 2553 Part 1



E Mark



COP (Conformation
of Production)



CE Marking



AS 1288:2006 Marking

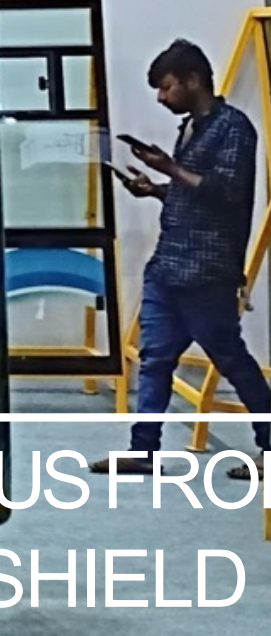
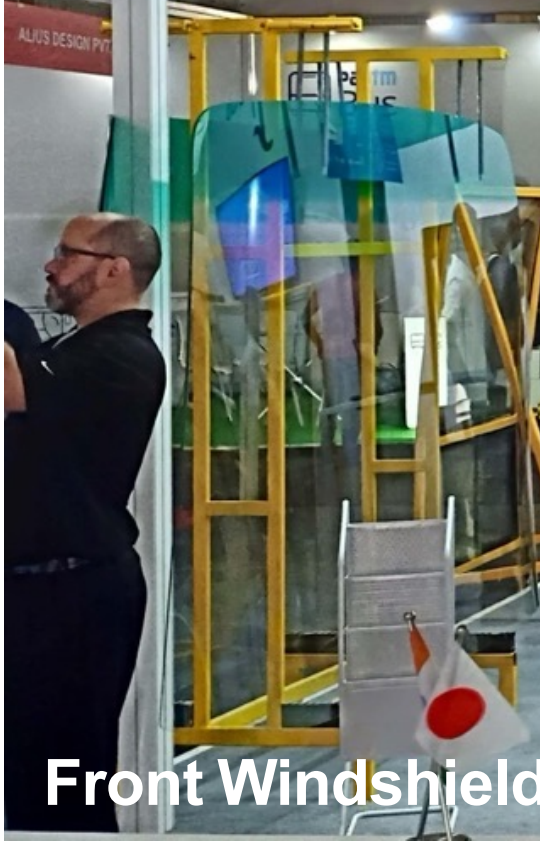
PASTED GLASSES For Buses and Earth moving Equipment



CAPACITY : 3500 Buses/ Month



FIRE



HYBRID BUS FRONT WINDSHIELD

Front Windshield

PROJECT VOLUME : 4000 SQM

NetApp, Bangalore

SKN 144 IGU, KS 146 IGU



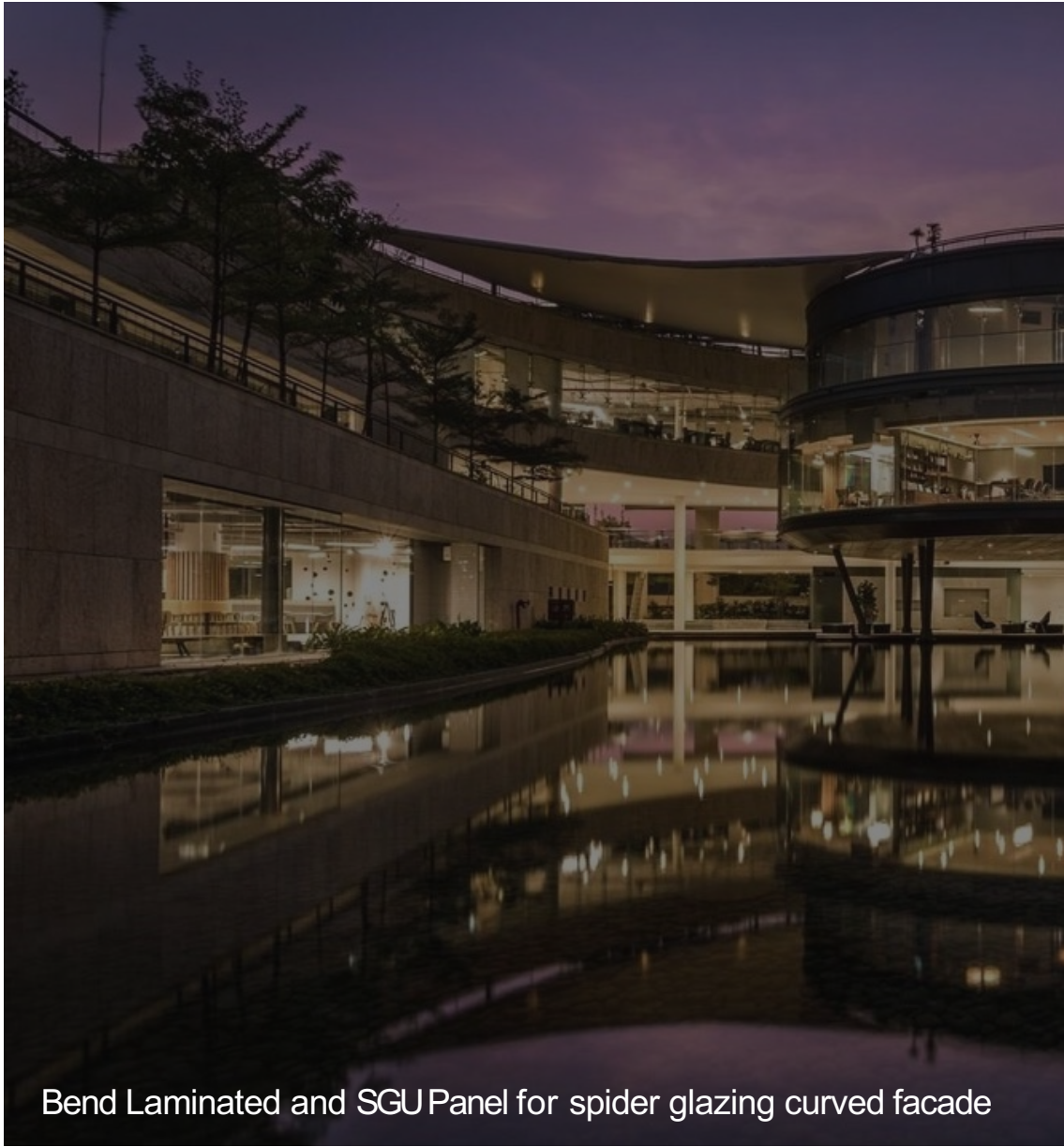
PROJECT VOLUME : 5000 SQM

KS 138 IGU PANELS

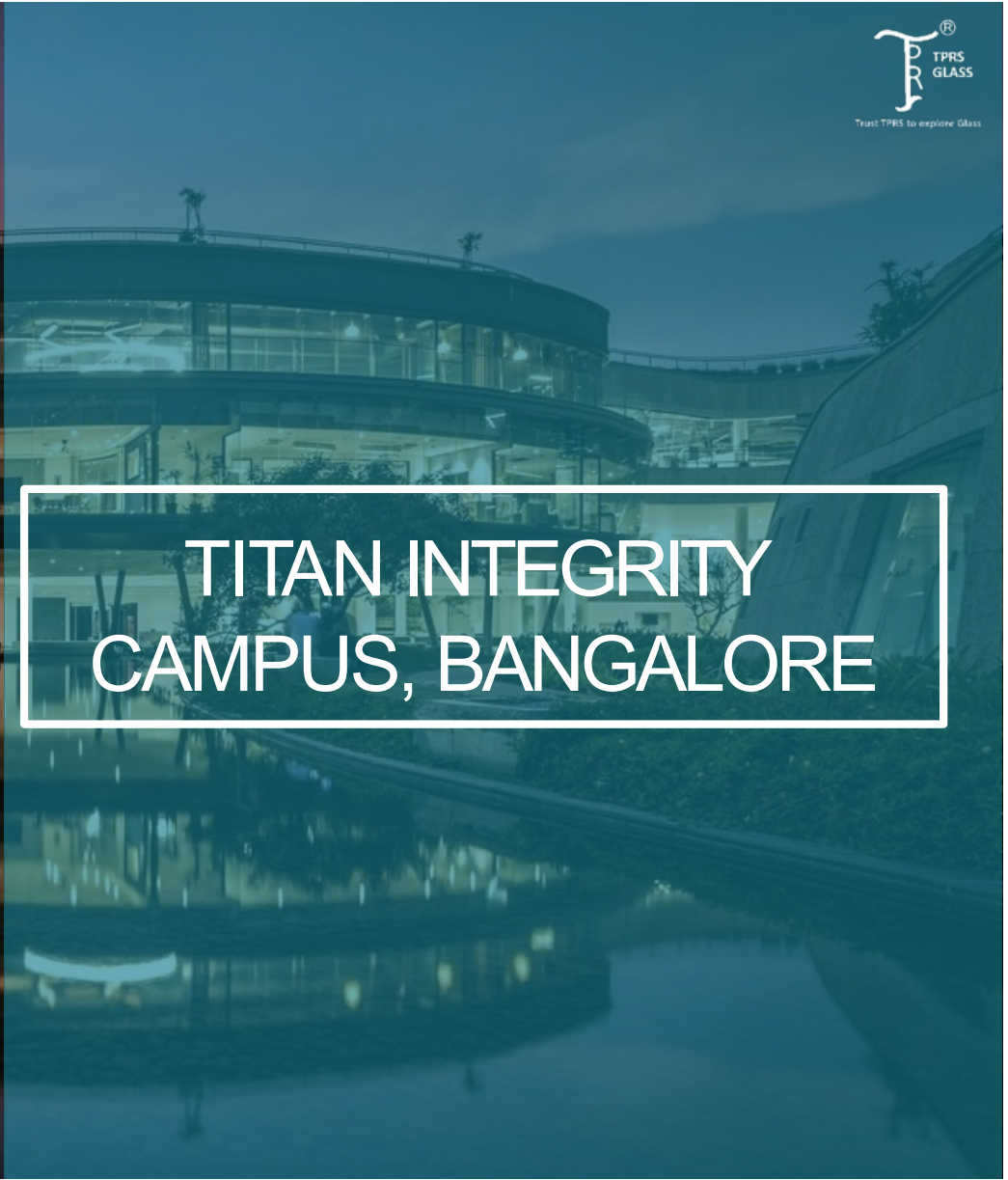


PRESTIGE TRADE TOWER, BANGALORE

PRESTIGE TRADE TOWER



Bend Laminated and SGUPanel for spider glazing curved facade



TITAN INTEGRITY CAMPUS, BANGALORE

SYNTEL EQUINOX PROJECT

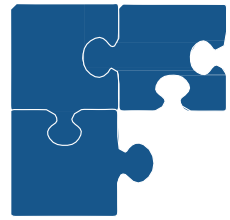
We are currently working on the most prestigious Syntel
(**Architect** : Edifice Architect Pvt. Ltd
Consultant : Synergy Façade consultant)

We have committed to supply IGU glass with less than 0.0768 mm waviness

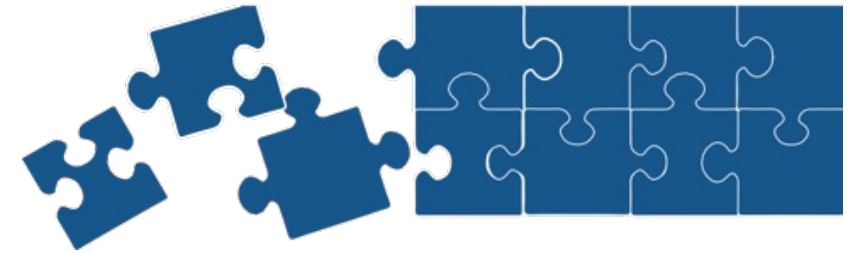
And,

We are successfully doing so !





OTHER SEGMENTS



WHITE GOODS

Large electrical goods used domestically such as refrigerators and washing machines, glass stoves, and appliances typically white in color.



ELEVATORS

Vertical transportation machine that moves people or freight between floors



ESCALATORS

An escalator is a moving staircase which carries people between floors of a building



ENGINEERING GLASS

Glass for equipment's



Trust TPRS to explore Glass



EXPORT FACILITIES

PONDICHERRY

Connecting up to **3** ports

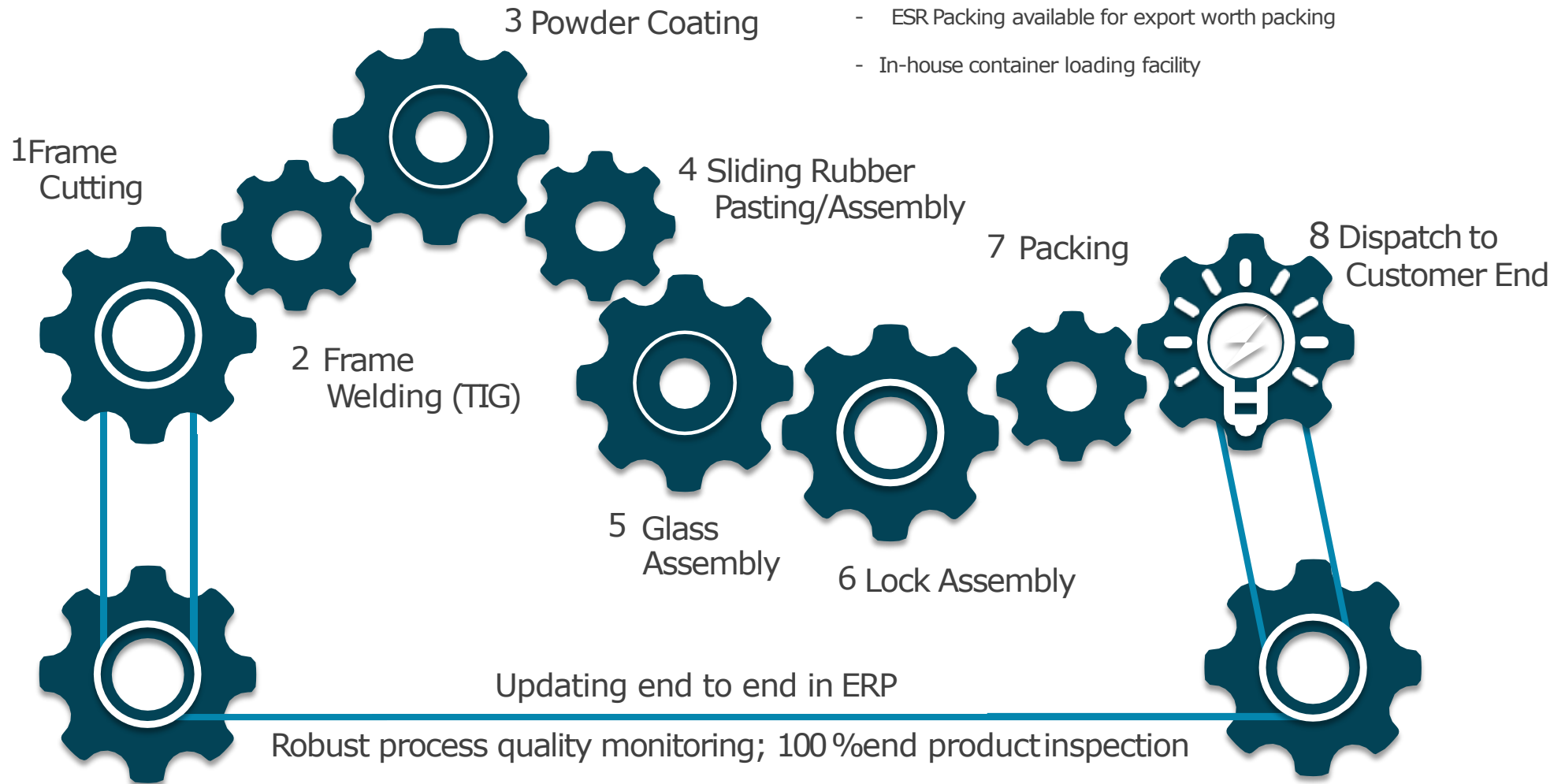
(Chennai, Tuticorin, Cochin)

DHARWAD

Connecting up to **3** ports in Mumbai

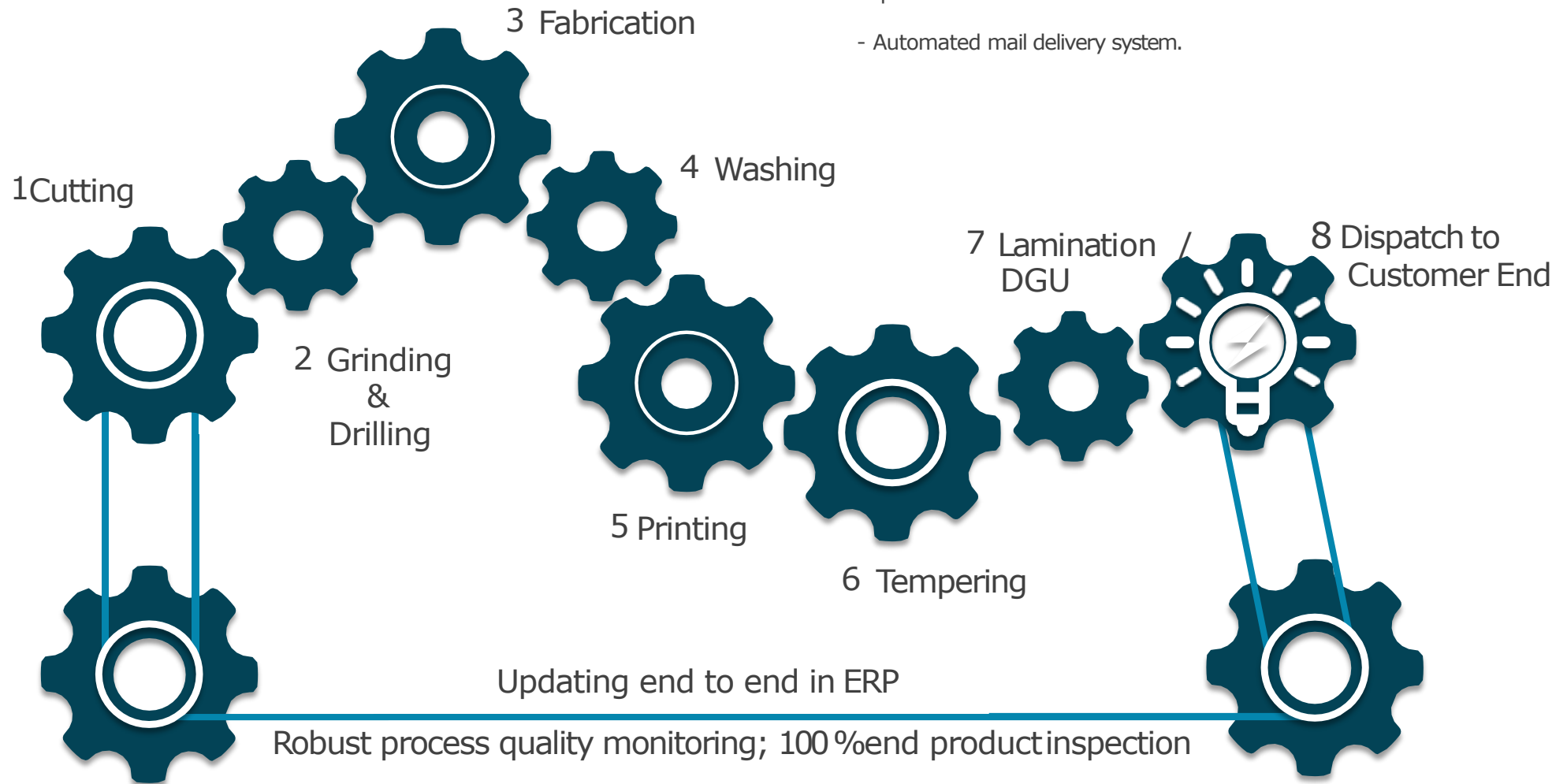
Window Frame -Production Process Flow

- End to End in-house process integrated
- ESR Packing available for export worth packing
- In-house container loading facility

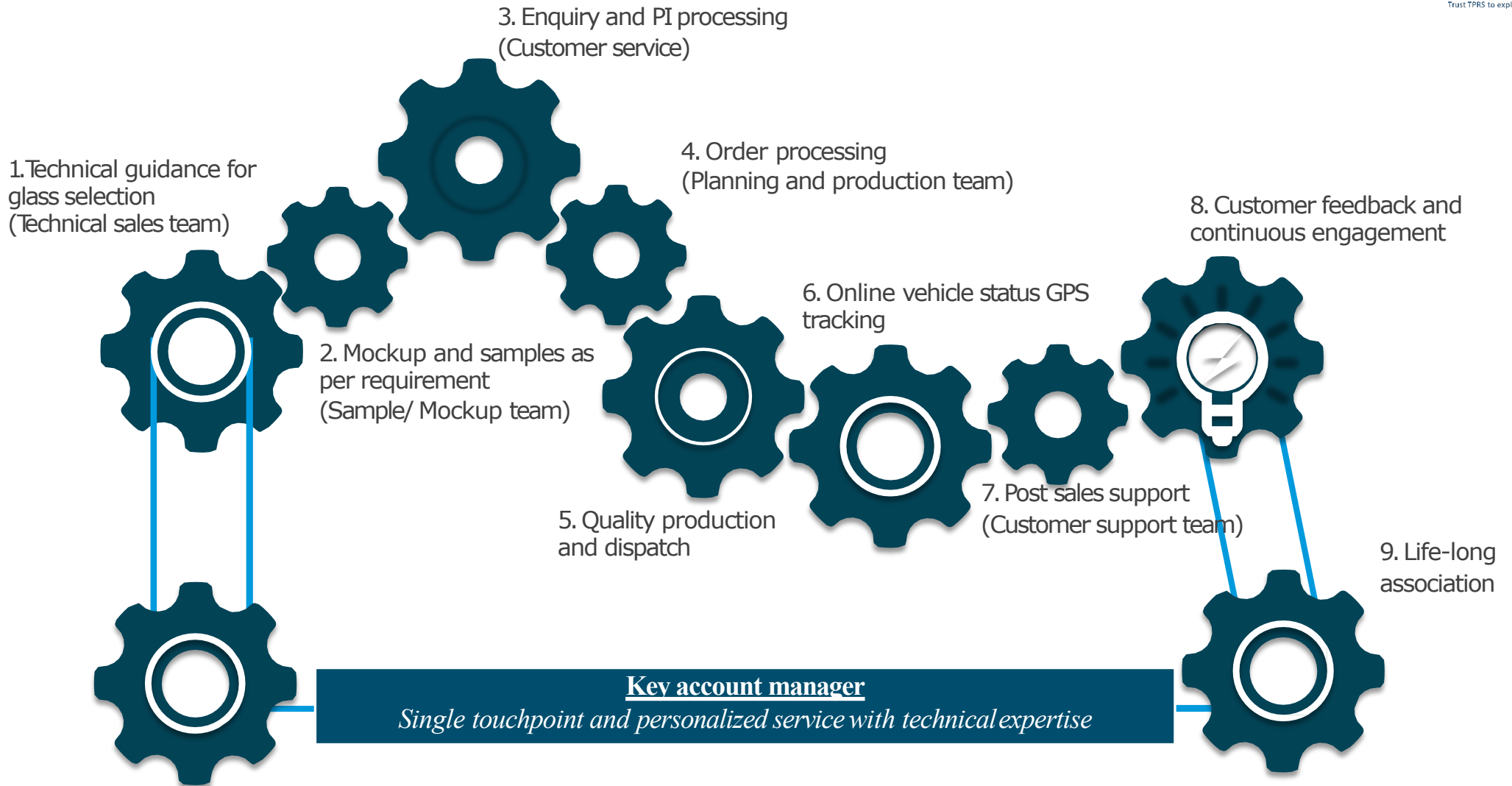


Production Process Flow

- 100% product and process traceability based on customer product identification number
- Automated mail delivery system.



Sales Process Flow





TPRS
commitment
Q SPI

Automobile Customers



Trust TPRS to explore Glass



Architectural Customers



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We have done many air port projects in India and currently we are supplying for Chennai Air port expansion

Construction Equipment Customers

AMMANN

 **HYUNDAI**
CONSTRUCTION EQUIPMENT

 **TUFF GLASS**
Trust TPRS to explore Glass



SANDHAR
Growth. Motivation. Better Life

FLORI[®]



WHY TPRS ?

Responsive to customer needs



Inhouse product and design development team



Always audit ready for vendor assessment



100 % quality
 We bring 25 years of safety glass expertise

Clear and transparent account statement



Superior Finish
 High accuracy



Realtime support for post sales enquiry



Quick adaptability to any changes



Round the clock operations



Packaging to suit your needs



Easy access to all levels of people in management



Just In Time delivery
 Short lead time



TRUST TPRS

to explore glass



Currently Serving :

- PAN INDIA
- MIDDLE EAST COUNTRIES
- AFRICAN COUNTRIES
- EUROPEAN COUNTRIES

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No. 139, Manapet Road, Manapet Village, Kannikoil,
Bahour Commune, Puducherry - 607402



www.tpsresenterprises.in

We will be happy to assist you with the most trusted glass and fabrication suggestions



TPRS Values – QSPI

- Quality
- Serviceability
- Professionalism
- Innovation

