



Fired by **Imagination**,
Molded to **Perfection**



Overview

PGP Glass Limited is a global specialist in design, production, and decoration of glass packaging. We are driven by technology and innovation to create functional, aesthetic, and sustainable glass packaging solutions for our customers in the Cosmetics & Perfumery, Food & Specialty Liquor, and Pharmaceuticals industries.

We have our design, production, and decoration footprint in India, and Sri Lanka with an overall capacity of 1,600 tonnes per day, with 11 furnaces and 64 production lines. We have a global presence, with offices and warehousing facilities in France, Germany, Turkey, Spain, Brazil, India, UAE, UK, and Sri Lanka. We serve customers in over 50 countries around the world.



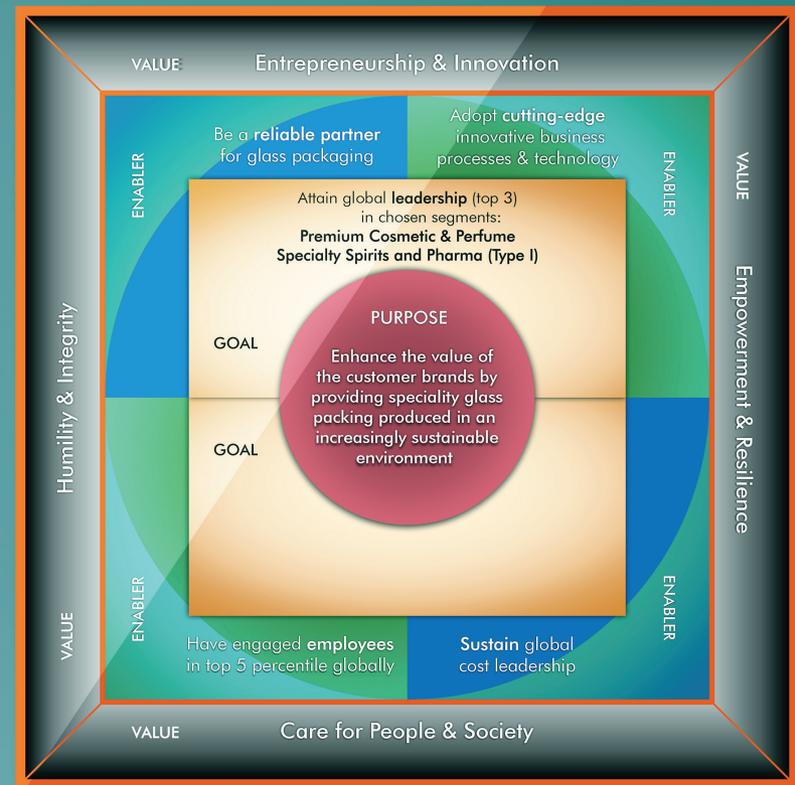
Values That Define Us

Purpose statement:

Enhance the value of the customer brands by providing specialty glass packaging produced in an increasingly sustainable environment

We believe that values are not just words on a wall, they are lived up to and embodied by everyone. As we evolve, grow and rise above the rest, it becomes imperative to stay true to these values

- Empowerment & Resilience
- Entrepreneurship & Innovation
- Care for People & Society
- Humility & Integrity



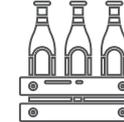
Our Facilities

We have three facilities: two in India, Kosamba and Jambusar, and one in Sri Lanka, Horana. Each facility offers its own speciality within our product range, along with in-house decoration services, making us uniquely positioned to cater to different clients with personalised services.

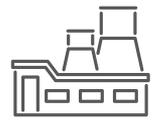
Kosamba, India



3
Manufacturing
Facilities



11
Furnaces



64
Production
Lines



1,600
Tonnes/Day



50
Countries
in Network

Kosamba, India

Our Kosamba facility specializes in producing high-quality glass containers for a wide range of industries. We manufacture USP Type I, II, and III bottles and vials for the pharmaceutical sector, and bottles for the cosmetics and perfumery industry. Additionally, we offer a variety of feeder-colored bottles in various shades. For pharmaceutical applications requiring exceptional durability and chemical resistance, we have a dedicated facility for Type I borosilicate glass. Our premium cosmetics and perfumery bottles are produced in a separate facility, ensuring the highest standards of quality and aesthetics. To complement our glass packaging offerings, we also operate ANSA Deco Glass, an in-house decoration unit that provides specialized design services.

Our Facilities

Jambusar, India



Jambusar, India

Our facility boasts one of the globe's most extensive capacities for pharmaceutical amber-glass packaging. We specialize in producing high-quality Type III amber-glass bottles and vials, as well as Type III flint bottles, catering to the diverse needs of the pharmaceutical, cosmetics & perfumery, and specialty food & beverage sectors.

Horana, Sri Lanka



Horana, Sri Lanka

Our facility in Horana, Sri Lanka produces a diverse range of type III flint and amber glass bottles for the Pharmaceutical, Cosmetics & Perfumery, and Specialty Food & Beverage industries. This facility also boasts the capability to manufacture Feeder-Colored bottles in a variety of hues, complemented by a dedicated in-house glass bottle printing facility.



Pharmaceuticals

At PGP Glass, we are dedicated to providing the highest quality borosilicate glass (Type I) and other pharmaceutical-grade packaging solutions. Through years of meticulous research, unwavering consistency, and relentless innovation, our extensive portfolio of standardized and customized products has earned the trust of leading pharmaceutical companies worldwide.

- **Fastest Growing Type I Borosilicate Glass Facility:** Our state-of-the-art facilities are at the forefront of glass manufacturing, ensuring rapid production and delivery of premium packaging.
- **Dedicated Type I Furnace with Clean Room Facility:** We maintain the highest standards of hygiene and quality control, guaranteeing the integrity of your pharmaceutical products.
- **One of the Largest Portfolios of Glass Packaging:** From vials to bottles, we offer a diverse range of options to meet your specific needs.
- **Global Reach:** Our products are trusted by the top 30 pharmaceutical companies in over 60 countries, demonstrating our commitment to excellence and reliability.





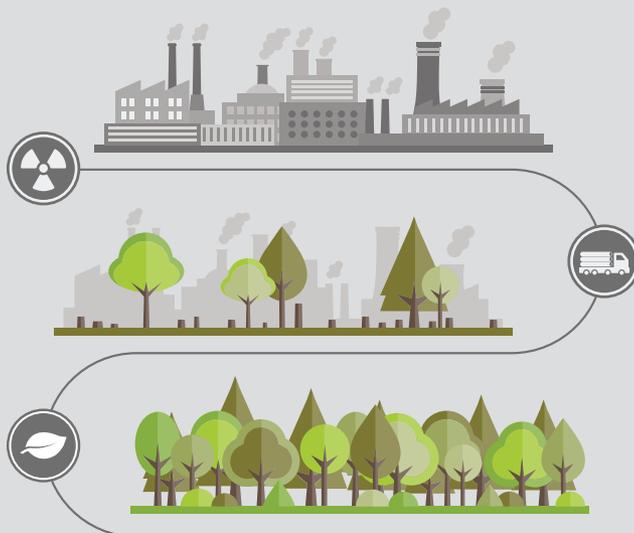
Sustainability

Sustainability is at the core of our Purpose.

Enhance the value of the customer brands by providing specialty glass packaging produced in an increasingly sustainable environment.

Path to Net Zero:

Our roadmap to Net Zero by 2050 is the long-term realisation of our efforts today.



We recognise that creating long-term value increasingly necessitates us understanding the impact of our sustainability strategies on key stakeholders such as investors, employees, customers, regulators, communities and value chain partners, as well as the natural resources on which the company relies. We identify and assess all **ESG** concerns that are material to the business in the context of our vision, mission, and values, such as environmental degradation, product and worker safety, waste creation, and associated issues that could have a negative impact on the business or its stakeholder.

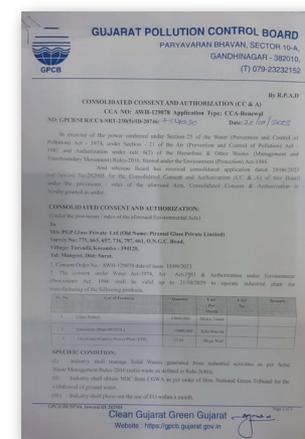
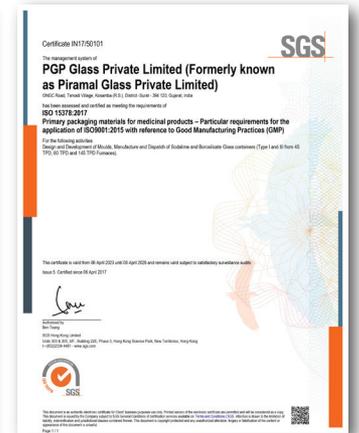


Quality Certifications

It's not just our own high standards, we constantly strive to meet global standards for quality set for glass packaging solutions by adhering to our internal benchmarks of excellence.

We prioritise sustainable development and uphold our social responsibilities, which is why we hold certification for the social accountability standard SA-8000. We are also registered with US FDA and Canada health, DMF No -16216 with USFDA and 2010-069 with Canada Health.

- BRCGS Certificate 23-24
- FSSC Certificate
- GPCB Certificate
- IMS Certificate IMS 9001-14001-45001
- IMS Certificate
- ISO 15378 Certificate JP-11 Nov25
- ISO 15378
- ISO 20400 Certificate
- ISO 27001 Information Security Management System (ISMS)
- ISO 37001 Certificate
- ISO 46001 Certificate
- ISO 50001-2018
- ISO 50001-Certificate
- ISO-27001-2013 IT PGP Glass
- SA 8000-2014-Certificate



*Details of certification provided on request

Recognition For Our Efforts

- EcoVadis Platinum for Kosamba Unit 2nd Year in a row - Kosamba site has covered the prestigious EcoVadis Platinum Medal. Highest honour awarded to top 1% of the companies globally.
- Amongst top CDP rated Companies Internationally - Management Band B 2023 for both, Climate change and Water security
- The Economic Times Future Ready Organisations - Accredited for 2023-2024 in the large-scale category.
- Great Place to Work™ - PGP Glass Limited - India is certified for the Sixth Year in a row
- Best Workplaces in Manufacturing - PGP Glass Limited has been certified for Fifth Year in a row.
- India's 100 Best Companies to work for - PGP Glass Ltd- Recognized for the Sixth consecutive year
- Great Place to Work™ - Top 50 India's Best Workplaces in Building a Culture of Innovation by All – 2024.
- Great Place to Work™ - Recognised amongst India's Top 10 Best Workplaces in Health & Wellness in 2023.



2nd consecutive year
Kosamba site covets
EcoVadis Platinum



We have been awarded for our excellence and contribution to creating a sustainable future by prestigious organisations and peers alike.

TYPE 1





PGP glass has 45 TPD dedicated capacity for Type I glass at Kosamba India. Type I glass is Borosilicate Glass, contains a significant amount of Boric Oxide, Aluminum oxide in the glass network which helps to increase Hydrolytic resistance of Glass. Borosilicate glass has high hydrolytic resistance and a high thermal shock resistance due to the chemical composition of the glass itself.

PGP Type I glass is suitable for complex pharmaceutical products i.e liquid injectable drugs, oncology and liberalized products because of its excellent hydrolytic resistant and lower coefficient of thermal expansion.

Type I glass containers are suitable for most products for parenteral and non-parenteral uses.



PGP GLASS FURNACE- ADDITIONAL FEATURES

Type I Furnace is designed and rebuilt in October 2022 with Technical consultation from SORG Germany with advanced Technology to deliver high homogeneous glass. Additional features are:

- Bubbler system in furnace
- Stirrers at fore hearth end
- Conti Drain system in fore-hearth.

BENEFITS OF THE ADDITIONAL FEATURES OF RECUPERATIVE TYPE FURNACE ARE:

- High Homogeneous Glass
- Better Conditioning Glass
- Consistency in Melting

Superior glass Quality is achieved due to huge investment made in Technology upgradation in Furnace and Inspection areas to deliver high homogeneity of glass for lesser generation of defects like cat scratch glass knots, cold glass and air bubbles etc.,

Hot molten glass molded to perfection with the help of mold equipment's and final air blow with one Micron filter air on IS machines supplied by Bottero and Emhart Glass.



PGP TYPE I GLASS VIALS ARE IN COMPLIANCE WITH THE REQUIREMENTS SPECIFIED IN THE LATEST PHARMACOPOEIAS:

- United States Pharmacopoeias <USP660> for Hydrolytic Resistance as Surface Glass Test and Glass Grain Test,
- European Pharmacopoeia EP<3.2.1> and British Pharmacopoeia for the Glass Containers.
- European directive 94/62/EC for Heavy metals.
- PGP Glass vials are in compliance for Spectral Transmission of Amber glass as per USP<660> and EP<3.2.1> in the UV range of 290 to 450nm wavelength.
- PGP Glass containers are in compliance with USP<660> and EP<3.2.1> for Arsenic Test.



- PGP Type I glass vials are in compliance for Extractable and Leachable as an Elemental impurities as specified in ICHQ3D and USP<232>.
- PGP Glass vials are in compliance with ISO7086 for Migration of Pb and Cd.
- PGP Glass has conducted a study on Type I Glass vials for the “Evaluation of the Inner Surface Durability of the glass containers”- Delamination study as per USP<1660>. We certify that our type I glass vials are within compliance with Delamination.
- PGP Glass has conducted various studies on the Extractable and Leachable as Elemental Impurities as per ICHQ3D and USP<232> and we certify that our glass vials are free from these Elemental impurities.
- PGP Glass has conducted a Stability Study on Type I Glass vials and based on the results, we declare that our Glass vials are suitable to use for up to 8 years. Further Hold time Study is going on to conclude maximum shelf life of PGP Type I Glass vials.
- PGP Glass vials are strictly monitored for Cp/CpK values greater than 1.33 for all critical dimensions.
- PGP Glass has different modes of packaging like shrink wrapping, Box Packing and palletization as per Customer requirement.



UP-GRADATION OF TYPE I BOROSILICATE GLASS MANUFACTURING FACILITY

PGP has invested heavily to modernize the Quality Inspection Areas.

TYPE-I GLASS VIALS PASS THROUGH 6 STAGES OF QUALITY CHECKS.

- Hot end Inspection
- Cold end Inspection
- Quality Assurance AQL Audit as per Customer Agreement.
- Pre-dispatch inspection (PDI) just before dispatch
- Auto Camera and Sensor based Inspection machines.
 - IRIS Evolution 12
 - IRIS Evolution 5
 - HEYE check detection machine.
 - Manual Inspection

PGP KOSAMBA SITE IS EQUIPPED WITH ADVANCED TESTING FACILITIES.

- WDXRF Spectrometer (21CFR Compliant) for the Chemical Composition Analysis of Raw Materials and Glass.
- UV-Visible Spectra (21CFR Compliant) for Spectral Transmission of Amber Glass.
- Autoclaves as per US & EP requirement for Hydrolytic Resistance Test
- Millipore Water Purification System (Milli-Q) as per USP & EP requirements.
- Density Comparator and Flame Photometer.
- Thermal Shock Test Machine & Polariscopes for Annealing Test
- Profile Projector for Dimensions parameters.

PGP Glass Type I Facilities Inspection & packaging activities are carried out under HVAC control rooms with only authorized personnel entry.





Flint Borosilicate Vials Type I



Material Name	OFC(ml)	Neck Finsh (mm)	Weight (gm)	Glass Type	Height (mm)	Diameter (mm)
2 ML REX - DB2060	3	13 MM	7	Type-1	35	15.5
3 ML METRO - DB1836	4	13 MM	7.5	Type-1	35	16.5
3 ML NATIONAL - DB1500	5.5	20 MM	11	Type-1	30	21.5
5 ML MOLDED VIAL - DB1152	6.5	13 MM	12.5	Type-1	41.3	20.8
5H ISO ANTIBIOTIC (5H) - ES288	6.8	20 MM	15	Type-1	41.3	20.8
5H ISO ANTIBIOTIC(5H) - DB1152	6.8	20 MM	15	Type-1	41.3	20.8
5 ML METRO - SB1020	8	13 MM	13	Type-1	41.28	22.5
5 ML VICTORY - DB1260	8.8	20-MM	14	Type-1	35.5	24.5
7 ML ANTIBIOTIC - ES238	9	20 MM ISO	12.5	Type-1	40.8	22
5 ML NATIONAL - DB1020	10	20 MM	14.5	Type-1	39	24.5

Material Name	OFC(ml)	Neck Finsh (mm)	Weight (gm)	Glass Type	Height (mm)	Diameter (mm)
8 ML ANTIBIOTIC - SB896	10	20 MM	17	Type-1	46.8	23
10 ML NATIONAL - DB1020	14	20 MM	19	Type-1	50	25
10/12 ISO ANTIBIOTIC VIAL (10/H) - ES255	15	20 MM ISO	21	Type-1	53.5	25.4
15/17.7 ISO ANTIBIOTIC (KNURLING) DB-504	17.7	20 MM	24	Type-1	58.8	26.5
15 ML RANBAXY - DS600	19.5	20 MM	21.5	Type-1	57	26.5
15 ML NTS - SB600	20	20 MM	22	Type-1	57	27
20/24 ISO ANTIBIOTIC VIAL (20/H) - DB460	26	20 MM	29	Type-1	58	32
20/24 ISO ANTIBIOTIC VIAL (20/H) - ES115	26	20 MM	29	Type-1	58	32
20 ML ATLAS - DB540	26.5	20-MM	28	Type-1	58	32
20 ML NATIONAL - DB540	26.5	20 MM	29	Type-1	58	32
20 ML ANTIBIOTIC - ES115	27	20 MM	28	Type-1	58	32
20 ML PG VIAL - DB460	28	GPI-20A/2710	26	Type-1	58.75	32.94
30 ML SVT DROPPER	35.5	GF-18/303-SPL-DROPPER	40	Type-1	73.2	34
30 ML WOCKHARDT - DB360	37	20-MM	38	Type-1	61	37.5
30 ML VIALS - DB414	38	20 MM	40	Type-1	67	35
30 ML ANTIBIOTIC (EXPORT) - ES90	38	20 MM	36	Type-1	63	36
30/38 ISO ANTIBIOTIC VIAL (30/H) - DB270	38	20 MM ISO VIAL	35	Type-1	62.8	36
30/38 ISO ANTIBIOTIC VIAL (30/H) - ES90	38	20 MM ISO VIAL	35	Type-1	62.8	36
30/38 ISO ANTIBIOTIC VIAL (HC) - ES90	38	20 MM ISO VIAL	35	Type-1	62.8	36
30 ML PG VIAL - DB330	38.1	GPI-20A/2710	42.5	Type-1	76.2	32.92
50 ML ANTIBIOTIC - ES68	60	20 MM	54	Type-1	73	42.5
50/60 ISO ANTIBIOTIC (HE+CE) - ES68	60	20 MM ISO	52	Type-1	73	42.5
50/60 ISO ANTIBIOTIC VIAL - ES68	60	20 MM ISO	52	Type-1	73	42.5
50 ML CH ANTIBIOTIC VIAL - ES63	63	GPI 20A/ 2710	56.7	Type-1	74	43.26
50 ML HERALD - DB270	67	20 MM	56	Type-1	73.5	43.5
50 ML NEW SALINE (HC) -DB112	68	32 MM	63	Type-1	68	46
50 ML NEW SALINE (HE+CE) - ES56	68	32 MM	63	Type-1	68	46
68 ML ANTIBIOTIC - DB154	68	28/2717-RB11	51.5	Type-1	88	38
75 ML PG VIAL (HE+CE) - ES48	90	20 MM ISO	80	Type-1	102.2	42.5
100 ML KINDOS INFUSION - ES56	119	32 MM SPL	116	Type-1	94.5	51.6
100/119 ISO ANTIBIOTIC VIAL - DB112	119	20 MM	95	Type-1	94.5	51.6
100/119 ISO ANTIBIOTIC VIAL - ES56	119	20 MM	95	Type-1	94.5	51.6
100 ML ANTIBIOTIC - ES80	120	20 AEROSOL - ANTIBIOTIC	95	Type-1	94.5	51.75
100 ML VIAL (HC) - ES54	126.38	28/2717-RB11	95.82	Type-1	95.63	51.59
100 ML DIN EXIM - ES56	128	32-MM-SPL	98	Type-1	104	49
100 ML DIN EXIM - SB112	128	32-MM-SPL	98	Type-1	104	49

Material Name	OFC(ml)	Neck Finsh (mm)	Weight (gm)	Glass Type	Height (mm)	Diameter (mm)
100 ML PG VIAL (QILU) HC - ES56	131	28-PG-OCD	109	Type-1	104.38	51.59
100 ML VICTORY - DB112	131	20 AEROSOL - VICTORY	100	Type-1	96.5	53
100 ML DR. REDDY - DB84	141	32 MM PN	98	Type-1	103.5	51.5
150 ML INFUSION - DB84	180	32-MM-150-INFUSION	130	Type-1	117	54.4
200 ML SALINE(P.N) - SB50	242	32 MM	195	Type-1	137	60.25
250 ML SALINE - DB70	297	32 MM P/N	200	Type-1	143	63.5
250 ML ANTIBIOTIC - ES28	303	32 MM	176	Type-1	136	66
500 ML ISO INFUSION VIAL - DB24	500	32 MM	305	Type-1	177	78
500 ML INFUSION (P.N) - DB24	570	32 MM { 7 HT }	307	Type-1	177	78



Amber Borosilicate Vials Type I



Material Name	OFC(ml)	Neck Finsh (mm)	Weight (gm)	Glass Type	Height (mm)	Diameter (mm)
3 ML NATIONAL - DB1500	6	20 MM	11	Type-1	30	22
5 ML VICTORY (DARK) - DB1260	8.8	20 MM	15	Type-1	36	25
5 ML NATIONAL (DARK) - DB1020	10	20-MM	14.5	Type-1	39	21.5
8 ML ANTIBIOTIC DARK - EB896	10	20 MM	17	Type-1	46.8	23
10 ML NTS DARK - DB1020	14	20-MM	18.5	Type-1	50	25.25
10 ML VICTORY (DARK) - SB1020	15	20 MM.	20	Type-1	53	25.5
10.000 ML ANTIBIOTIC - ES168	15	20-MM	21	Type-1	53.5	25.4
10/12 ANTIBIOTIC VIAL (10/H) - DB1020	15	20 MM ISO	21	Type-1	53.5	25.4
15/17.7 ISO ANTIBIOTIC VIAL(15/H) -ES168	17.7	20-MM	24	Type-1	58.8	26.5
15 ML NTS DARK - DB600	19.5	20 MM	21.5	Type-1	57	26.5

Material Name	OFC(ml)	Neck Finsh (mm)	Weight (gm)	Glass Type	Height (mm)	Diameter (mm)
20/24 ISO ANTIBIOTIC VIAL (20/H) - DB460	26	20 MM	29	Type-1	58	32
20 ML ATLAS DARK - DB540	26.5	20-MM	28	Type-1	57.5	31
20 ML ANTIBIOTIC DARK - ES115	27	20-MM	28	Type-1	58	32
30 ML HERALD DARK - DB360	37	20-MM	38	Type-1	61	37.5
30 ML ANTIBIOTIC (DARK) - ES90	38	20 MM	36	Type-1	62.8	36
30/38 ISO ANTIBIOTIC VIAL(30/H) - ES90	38	20 MM ISO VIAL	35	Type-1	62.8	36
50/60 ISO ANTIBIOTIC VIAL (50/H) - DB204	60	20 MM ISO	52	Type-1	73	42.5
50 ML HERALD DARK - DB270	67	20 MM	56	Type-1	73.5	43.5
100/119 ISO ANT VIAL (100/H) DARK - DB112	119	20 MM	95	Type-1	94.5	51.6
100/119 ISO ANT VIAL(100/H) DARK - ES56	119	20 MM	95	Type-1	94.5	51.6
100 ML ANTIBIOTIC (DARK) - ES80	120	20 AEROSOL - ANTIBIOTIC	95	Type-1	94.5	51.75
100 ML VIAL DARK - DB108	126.38	28/2717-RB11	95.82	Type-1	95.63	51.59
100 ML DIN EXIM - ES56	128	32-MM-SPL	98	Type-1	104	49
100 ML VICTORY DARK - DB112	131	20 AEROSOL - VICTORY	100	Type-1	96.5	53
250 ML ANTIBIOTIC (DARK) - DB28	303	32 MM	176	Type-1	136	66
250 ML ANTIBIOTIC (DARK) - ES28	303	32 MM	176	Type-1	136	66
500 ML INFUSION ISO VIAL - DB24	570	32 MM SPL	305	Type-1	177	78

Fired by imagination - Molded to perfection



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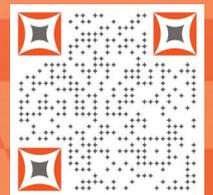
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