



An ISO 9001 : 2015 Certified Company

For International Graded Pharma Essentials



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About SML

Providing International Graded Pharma Industries Essentials, based on advanced Technologies & Machineries, Authentically Designed, Manufactured and Controlled under Supervision of Professionalized team, on time efficiency, at affordable cost is our SML Clean Room Solutions Uniqueness.

Understanding the Customer requirements thoroughly and providing them with Superior Quality Products and Construction is our Professionalized and Top-prioritized notch.

Senior Professionals with an experience of 40+ years have ever been the leading Pioneers in our Company.

With a Solidified Decade (13+years) experience SML has been Entrusted for Outsourcing more and more Customized, Reliable Eco-friendly Products.

Keeping in view of Next generation, SML has constantly upgraded newer versions of Pharma Industrial Products and Services.

INDUSTRIES WE SERVE

Pharmaceuticals	Biotechnology
Medical devices	Manufacturing
Food and Beverages	Nanotechnology
Breweries	Cosmetics
Research Institutions	Mould Injections
Healthcare	Optic and laser
Universities	Automotive
Operation Theatres	Defence
Micro - Electronics	Aerospace



OUR BUSINESS FORTE

- * Project Devising
- * Cleanroom Design & Engineering
- * Well Equipped project planning
- * Pre-Organized project Execution on time Proficiency
- * Validated & Evaluated Documentations as per protocol, with respect to Designs, Installations, Constructions, Operational Execution, Site Inspection abided to Jurisdiction are Perfected by our Company Proficient Executives

SML SERVICES AND PRODUCTS

Specified HVAC Systems Design & Validation as per the GMP , cGMP & GLP Standards
Air Handling Units (AHU)
Clean Rooms Modular Wall and Ceiling Panels
PVC and Aluminium Covings
Double side glazed Windows for Cleanrooms
Positive Pressure Unit
Pre-fabricated Ducts
Ducting (VRF & VRV)
BMS (piping & chillers)
Air Shower

Clean room Equipments
Structure and Engineering Consulting
SS Furniture
Class I, II, & III Bio Safety Cabinets
Laminar Air Flow (Vertical & Horizontal)
Garment Cubicle
Cross Over Bench
Fume Hoods
Dynamic pass Box and Static pass Box
Sampling & Dispensing Booth
Flooring Epoxy and Vinyl



CLEAN ROOM MODULAR WALLS AND CEILING PANELS

Modular Cleanroom Design and User Convenient

Modular cleanrooms are portable, freestanding structures that can withstand the high volume of airflow require to achieve ISO classified, ultra-clean environments.

We create secure environments which protect processes from harmful airborne contamination, thereby reducing failure rates.

We customize and offer an economical approach to your cleanroom needs and strive to supply the most cost-effective products as per your standards and requirements, with certain modifications.

Clean Room Modular Wall & Ceiling panels Based on Infill or Insulation

Material	Density (kg/m ³)
* PUF (poly urethane foam)	40
* EPS (Extruded polystyrene foam)	18
* Fire rated Rock-wool	96-140
* Aluminium Mineral wool	96-140

Dimensions Range (mm)

Material	Length	Width	Thickness
* PUF (poly urethane foam)	Upto 8000	1200	50-200
* EPS (Extruded polystyrene foam)	Upto 8000	1200	30-200
* Fire rated Rock-wool	Upto 3000	1200	50-200
* Aluminium Mineral wool	Upto 3000	1200	50-200

Installation Arrangement

MOC

Layer : PPGI Both side, SS304- Both Side

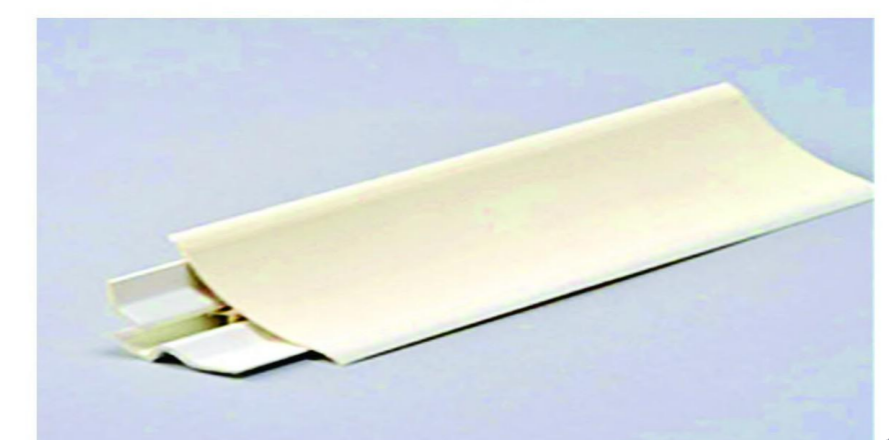
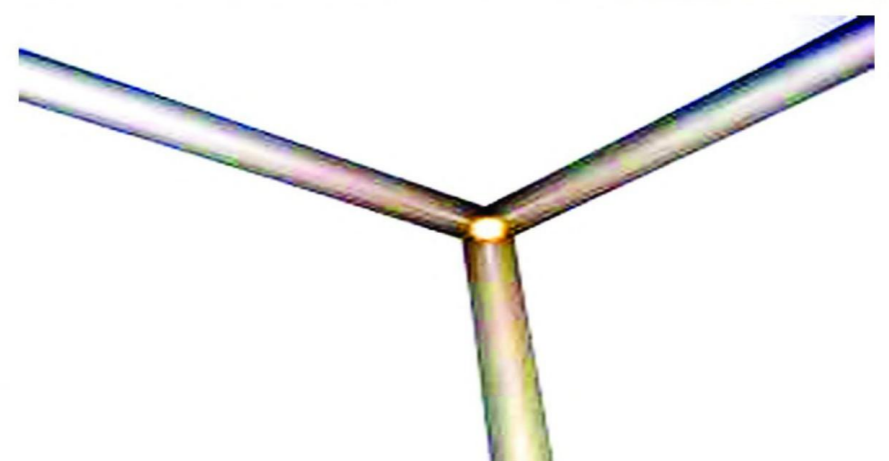
Structural frame work, Bottom track,

connecting profile : powder coated GI (PCGI)

Sealant : Silicone

FM Global approved PUF Chemicals,

GI sheets, Insulation materials are Used



PVC AND ALUMINIUM COVINGS

The Elite PVC Cove range comprises a variety of hidden-fix coving products to provide a hygienic seal at wall-to-floor and wall-to-ceiling transitions.

All coving products are manufactured from food-safe PVC and have flexible edges, negating the need for silicone seals. Elite Covings are available in a variety of colour options to match the existing decor. Alternatively a high-contrast scheme may be chosen to clearly define different areas or departments.

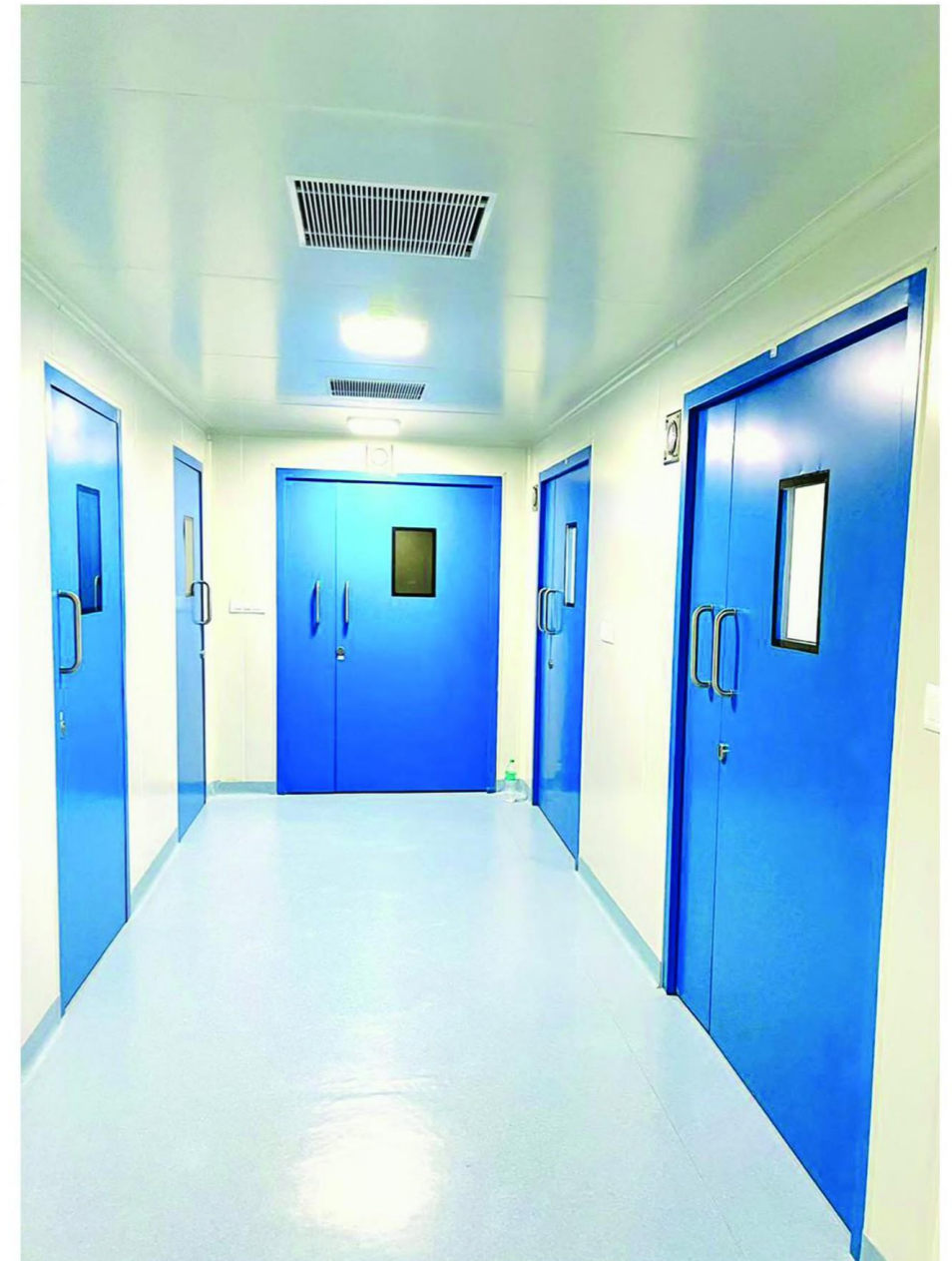
CLEAN ROOM DOORS AND FIRE DOORS

SML Clean Room Solutions Door Systems Facilitates & Modulates the most stringent requirements for environmental controls, while satisfying entrapment and egress requirements for all building code standards. The Doors are specifically designed for the demanding requirements of Cleanrooms From impact traffic doors to sliding doors to fiberglass doors. We Understand the importance of specifying the right Cleanroom door . In order to install these Doors SML Clean Room Solutions has field representatives strategically located for on-site assistance for identifying the right door system for your specific application.

Types :

Based on application :

1. Fire rated doors (Minimum 2 hours)
2. Clean room flush doors
3. Trap doors
4. Emergency doors
5. Office purpose - Weightless



Technical Details

Door components	Specifications
1. Door leaf	PCGI sheets with Reinforcements and Hardware mountings. Sheet thickness: As Per Standards
2. Door Frame	PCGI sheets with necessary welding & supporting arrangements
3. Infill / Core materials	Paper Honey-comb, PUF, Fire rated rock-wool
4. Finish	Powder coated / Stainless steel
5. Color	As per client's required RAL shade.



Size Range

Maximum height : 900 mm to 4000 mm
Single Door Width : 700 mm to 1200 mm
Double Door Width : 1200 mm to 4000 mm

Size and Specification are customized as per customer's requirement.



HVAC SYSTEMS

Heating, Ventilation and Air Conditioning (HVAC) equipment perform heating and/or cooling for residential, commercial or industrial buildings. The HVAC system may also be responsible for providing fresh outdoor air to dilute interior airborne contaminants such as odors from occupants, volatile organic compounds (VOC's) emitted from interior furnishings, chemicals used for cleaning, etc. A properly designed system will provide a comfortable indoor environment year round when properly maintained.

AIR HANDLING UNIT

Product range :

Types :

1. Floor mounted Air Handling Unit
2. Ceiling Suspended AHUs
3. Ventilation unit
4. Exhaust fan
5. Vertical AHUs
6. Two Tier AHUs
7. Evaporative Cooling unit



Related Products :

1. Single Skin AHUs.
2. Double Skin plenums 25&50 mm PUF/Rigid.
3. Evaporative Cooling unit with PVC eliminators & wet pads.
4. DX & Chilled water fan coil units 1 to 3TR.
5. DX & Chilled water cooling coils-1/2", 3/8th
6. GI / Aluminium PVC gear VCDs
7. GI butterfly dampers
8. GI / Aluminium collar dampers
9. GI fire dampers with fusible link
10. Aluminium extruded grilles
11. Aluminium diffusers
12. GI / Aluminium air intake louvers
13. GI / Aluminium gravity louvers
14. Sound attenuators
15. GI, Spill air boxes
16. GI, SS & PVC eliminators
17. GI, SS & Aluminium raisers
18. GI, SS & Aluminium HEPA / grill modules



EAU
(Exhaust Handling Unit)



HEAT EXCHANGER

The core- a fully welded set of plates without gaskets
The shell - a removable and easy to maintain casing



MODULAR OPERATION THEATRE OT AS PER (NABH)

Due to increase in acquired infections, to improve resistant to current antibiotic regime. There was a need to make integrated, modular operation theaters to reduce post operative infections, easy maintenance, enhance health systems & patient safety.



As per the requirement of Clean Modular Operation Theater amended as per National Accreditation Board for Hospitals (NABH) Standards, we provide turnkey solutions for modular operation theater (MOT) with cutting-edge designs and innovative solutions.

BMS AND ELECTRICALS

BMS are computer-based systems that control a building's heating, ventilation, and air-conditioning (HVAC) Systems, lighting, access control, security, intelligent lifts, water system, entertainment, and fire systems.



DUCTING

We are one of the leading Factory Fabricated Duct manufacturers and suppliers in Bangalore. We manufacture and supply Factory Fabricated Ducts in different sizes & shapes as per the requirement of the different clients. We use qualitative raw material in the ducting process to assure sturdiness and durability. Being a quality oriented organization, we manufacture this Ducting using the raw material of reputed makes.

At SML Clean Room Solutions, we create Rectangular G.I. Ducts which are Machine Fabricated or Pre-fabricated in the factory. Machine Fabricated Ducts are used in various applications as Air conditioning ducts, Ventilation Ducts, Air Cooling Ducts, Exhaust Ducts, etc. These Prefabricated HVAC Ducts reduce air leakages and improve efficiency of HVAC system. We also supply Duct Accessories like Threaded Rods, Ventilation Ducts, Fresh Air Ducts, GI Ducts, Prefabricated Ducts & Preinsulated Ducts, Anchor Fasteners, W-Brackets, Carriage Bolts and Nuts, Self Adhesive Gasket etc. Along with Duct Manufacturing, we also undertake Complete Ducting Contracts, as the Project Includes HVAC Systems, requiring Duct Fabrication and Duct Installation at Site. For this reason we have been preferred by many HVAC companies for their Ductwork requirements. Through regular and consistent supply of products at reasonable prices, SML has established itself as a reliable player in the industry.



VRF (Variable Refrigerant Flow)



Piping & Chillers



CLEAN ROOM EQUIPMENTS

SML Clean Room Solutions Door Systems satisfy the most stringent requirements

which enables the control of their process, particularly important for today's telecoms/net space, defense, food, pharma, biotech and automotive industries. The ability to supply high quality, often 'Box in Box' type solutions has become paramount for businesses to function profitably.

Classified clean rooms are very familiar to the pharmaceutical, electronic, semi-conductor and wafer-fab industries, ranging from Class 100,000 up to Class 1 and are determined by the operation of the particular room or process

Clean rooms are classified by the cleanliness of their air. The method most easily understood most universally applied is based on ISO and CGMP Standards.



Bio Safety Cabinet

Biological safety cabinets are used to give operator, environment and product protection when handling dangerous biological materials.

It is important to differentiate between conventional unidirectional Air Flow (formerly called Laminar Air Flow or LaF) systems which give a particulate controlled atmosphere for critical operations and Microbiological Safety cabinets which give importance to Operator, Environment and Product Protection. Selection of a Biological Safety Cabinet depends on the type of biologically hazardous materials handled inside the cabinet. Various international bodies recommend some biological risk classifications by taking in to account the pathogenic nature of biological materials and minimum requirements for guaranteeing protection to personnel, environment and materials during their manipulations. DPAG, DHSS-GB (The Dangerous Pathogens Advisory Group-Department of Health and Social Security-Great Britain), CDC-USA(Centre for Diseases Control, United States of America) World Health Organization (WHO) NCI-USA(National Cancer Institute), NIH-USA(National Institute of Health) etc, are some of the major contributors to development of parameters to classify different pathogens.



Air Shower, Sampling Booth & Dispensing Booth



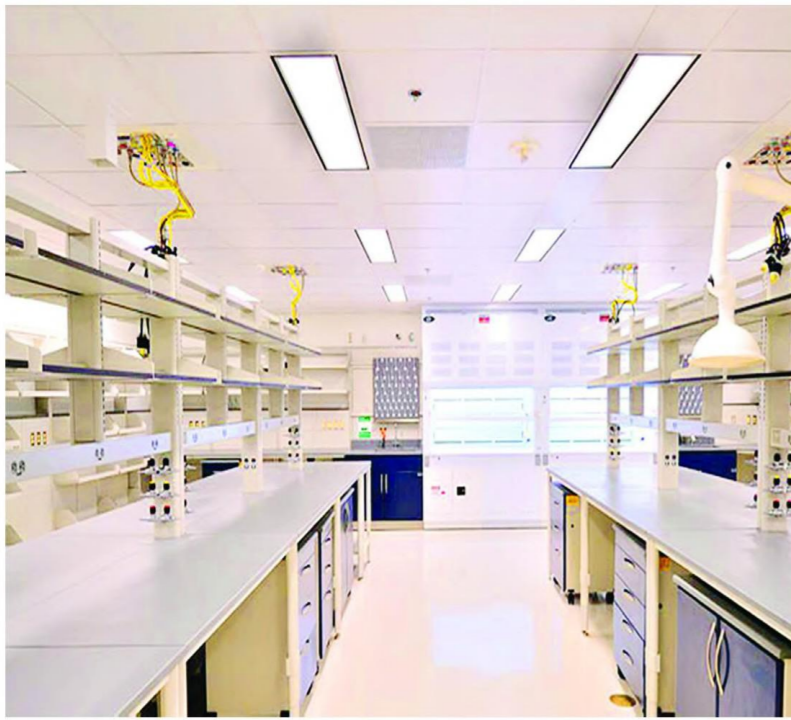
Laminar Air Flow

Laminar air flow benches (vertical, horizontal & vertical with FFU) : Laminar air flow benches are available with SML, in Standard configurations of Horizontal or Vertical air flows. The standard LAF's are available with UV light, low noise fan filter units. The tubular structure is powder coated. SS work bench is installed as per required standard. The filter range includes, HEPA/ ULPA Filters, Pre Filters, Activated Carbon Filters, Gas filters and others to suit specific applications. The bonding of the media to the frame work is free from gas emission. The filters can be made to specific sizes and are available in SS/Aluminum housing. Ease of installation and certified performance are a few of the many advantages of using SML products.



FUME HOODS

A fume hood or fume cupboard is a type of local ventilation device that is designed to limit exposure to hazardous or toxic fumes, vapors or dusts. A fume hood is typically a large piece of equipment enclosing five sides of a work area, the bottom of which is most commonly located at a standing work height. Two main types exist, ducted and recirculating i.e, ductless. The principle is the same for both types: air is drawn in from the front (open) side of the cabinet, and either expelled outside the building or made safe through filtration and fed back into the room. Other related types of local ventilation devices include: clean benches, biosafety cabinets, glove boxes and snorkel exhausts. All these devices address the need to control airborne hazards or irritants that are typically generated or released within the local ventilation device.



Walk-IN
Fume
Hoods



Dynamic Pass box & Static Pass Box

In clean rooms, the dust and microorganisms generated by people and material make-up the largest source to contamination.

Therefore it is necessary to minimize the number of persons to receive and deliver materials from and to the clean room. The pass boxes are used for this reason. We at SML offer Static & Dynamic Pass-Boxes in various sizes.



BOD Incubator



FREEZERS



SS FURNITURE

Our organization is involved manufacturing, exporting and supplying in a wide range of Stainless Steel Staircase Railing around the globe. We manufacture these products using top quality steel materials sourced from confidential vendors. These products are given extraordinary features, such as stunning designs, separate hand resting facilities and superior steel make. All this railings are applicable in constructing stairs in industries, offices and houses.



LAB FURNITURE WITH GRANITE



Garment Cubicle

We are the reckoned Manufacturer, Exporter and Supplier of Garment Cubicle. Our Garment Cubicle are available with HEPA filter in re-circulatory construction models, heaters with thermostats, UV germicidal tubes and glazing, ensure controlled micro environment for storage of clean room garments and accessories. Composite melamine bulkhead with interior antifungal painted in lieu of powder coated CRCA.




Cross Over Bench







CLEAN ROOM & GOWNING ROOM FURNITURE

FLOORING EPOXY AND VINYL



Anti - Microbial Epoxy Flooring



Anti - Microbial Vinyl Flooring



PU (POLY URETHANE) FLOORING



CERTIFICATES Recognition & Awards



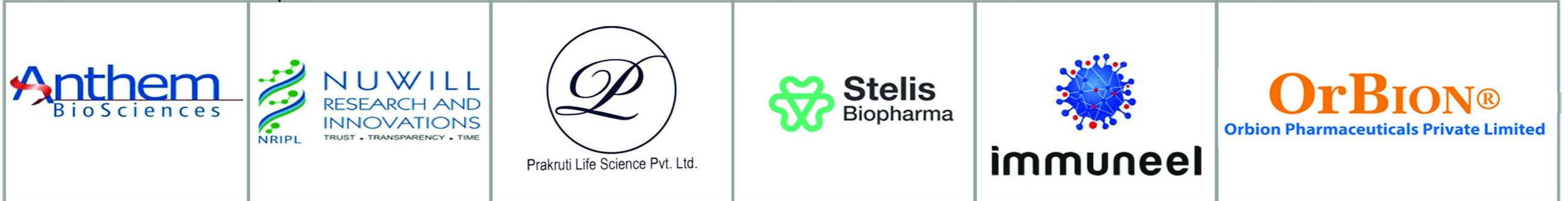
Government Projects



Pharmaceutical



Research & Developments



Health Care & Others



Electronics & Manufacturing



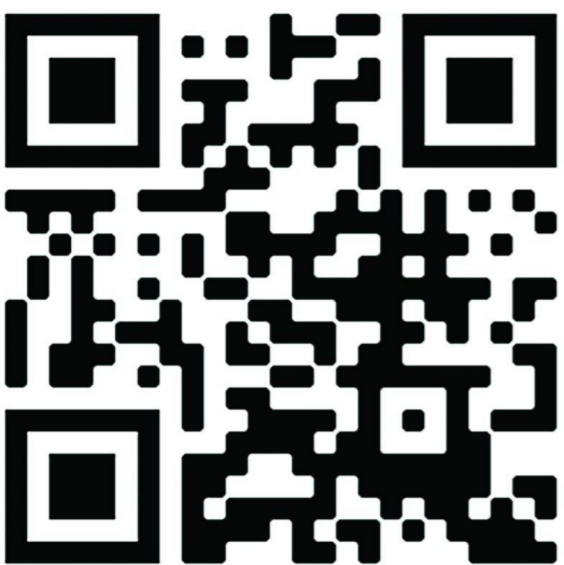
Food & Beverages



International Client



And Many More...



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GLOBAL PRESENCE



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