



COMPANY PROFILE

*“STEERING OURSELVES TO THE
PASSION OF ENGINEERING.”*





WHO WE ARE?

We are a passionate engineering team who generates the powerful new insights into electrical engineering designs. We are doing what we love to keep ourselves alive. We are making the creativity as the core competency for every job across the business. Our biggest motivation is keep challenging ourselves.

WHY WE SERVE YOU?

All our projects bring out the potential of our passion in engineering, which lead us to make fantastic friends, learn loads and encourage us to take on big challenges. These give a great opportunity to contribute to a variety of projects that touch on a range of important technical areas that are endlessly interesting. It is all about the passion and the creativity.

MEET OUR EXPERTS

We are reinforcing the practicality of designs and solutions with our expertise and extensive experience in LV panel designs. Our team helps you to rediscover the most actionable electrical engineering solutions. We strategically focus on your key engineering challenge and applying the most creative and effective engineering solution to optimize the performance and improve your business.

OUR PROFESSIONAL SERVICES

1. SYSTEM DESIGN CONSULTANCY

Our designs compliment the practical insights for your requirement. Our System Designing process in the projects provides a comprehensive LV Panel Design Service to the client. The service we offer to the client takes their initial concept in order to produce a design that will bring their ideas to life. The meetings with the client at all key stages in the design process ensures the final outcomes of the project meet with all their expectations.

2. ENERGY SAVING SOLUTIONS

We give a new perspective on your requirement by viewing it different mode of thinking and helping you to discover the enormous potential for energy saving solutions to run your business.

3. COMPUTER – AIDED DESIGN

We are professionally creating the Shop Drawings (Single Line Diagrams, Power Line Diagrams, Control Diagrams and General Arrangement) and As-Built Drawings for Electrical Low Voltage Panel Designs.

4. ELECTRICAL LOW VOLTAGE SWITCHBOARD ASSEMBLER

We have engraved the excellence for two decades in assembling Electrical LV Switchboards in accordance with the standards of IEC 61439-1 & IEC 61439-2.



OUR PROJECTS

ANSE LA MOUCHE RESORT MAHE, SEYCHELLES

**120-Room Hilton Canopy
Hotel and Spa, located in one
of the highly attractive prime
locations in Mahe, Seychelles.**

Main Works

Manufacturing and Supplying
Electrical Panel Boards (Main
Breaker Capacity – 2500A)



GRAND HYATT COLOMBO, SRI LANKA

**47-Storey, 475-room,
5-star Hyatt Regency Hotel,
located in Colombo,
Sri Lanka.**

Main Works

Electrical LV Panel Design,
Manufacturing and Supplying
Electrical Panel Boards (Main
Breaker Capacity – 5000A, 5000A
Breakers – 13 Nos), Generator
Sync Panel 5000A

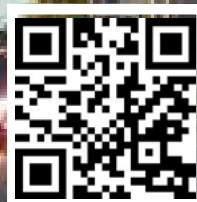


TRI-ZEN COLOMBO SRI LANKA

Three towers of 52, 54,
and 52 floors, 891-unit
Apartments, located in the
heart of the city at Union
Place, Colombo, Sri Lanka.

Main Works

Electrical LV Panel Design,
Manufacturing and Supplying
Electrical Panel Boards (Main
Breaker Capacity – 4000A &
3200A)



SERENIA RESIDENCIES, BEACHFRONT APARTMENTS IN SRI LANKA





**Two Tower, 42 Beachfront
Luxury Hotel Residencies,
along with spectacular
ocean panoramas, located in
Galle, Sri Lanka.**

Main Works

Manufacturing and Supplying
Electrical Panel Boards
(Main Breaker Capacity - 1600A)

ELIXIA 3C'S SKYLINE APARTMENTS SRI LANKA



**336 Luxury Apartments,
located in Malabe,
Sri Lanka**

Main Works

Electrical LV Panel Design,
Manufacturing and
Supplying Electrical Panel
Boards (Main Breaker
Capacity – 3200A)

CANTERBURY GOLF RESORT APARTMENTS & RESIDENCIES, SRI LANKA

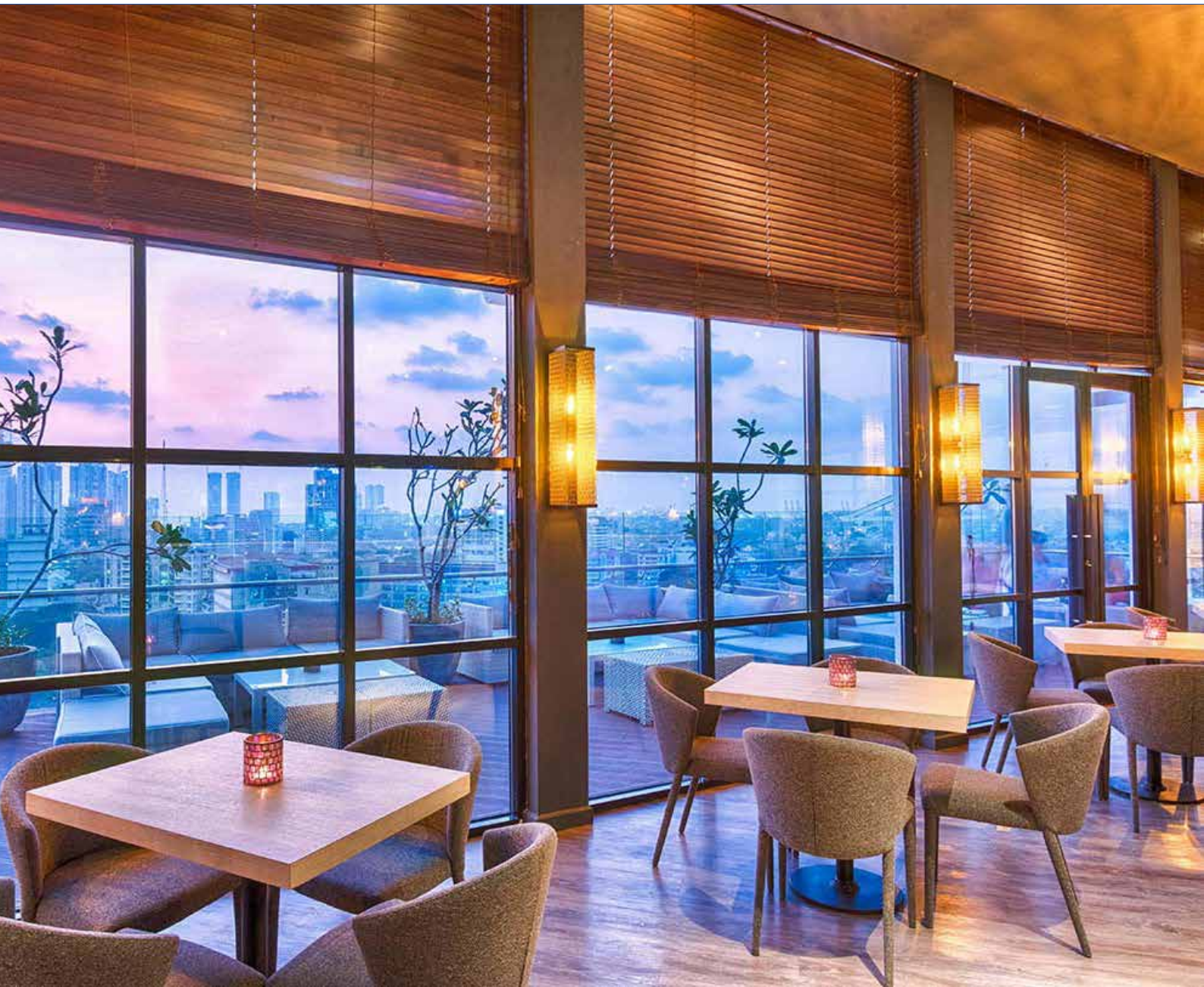
South Asia's First Victorian Style
240 units of golf view apartments,
244 units of garden view apartments,
265 uniquely designed residencies
with nine-hole golf course, pro shop,
golf training centre, cycling tracks,
horse cart service, swimming pool,
indoor and outdoor gymnasiums,
44,000 square feet of extra-spacious
outdoor banquet area, billiards
parlour, hammocks, library, mini-
market, coffee shop, basketball,
tennis, badminton and exclusive
range of 50+ world-class facilities.

Main Works

Electrical LV Panel Design,
Manufacturing and Supplying Electrical
Panel Boards (Main Breaker Capacity –
1600A)



JETWING COLOMBO SEVEN, SRI LANKA



98-Room, Luxury Hotel,
located in Colombo Seven,
Sri Lanka



Main Works

Manufacturing and Supplying
Electrical Panel Boards (Main
Breaker Capacity – 1600A),
Chiller Control Panel

PEARL GRAND TOWERS

COLOMBO, SRI LANKA

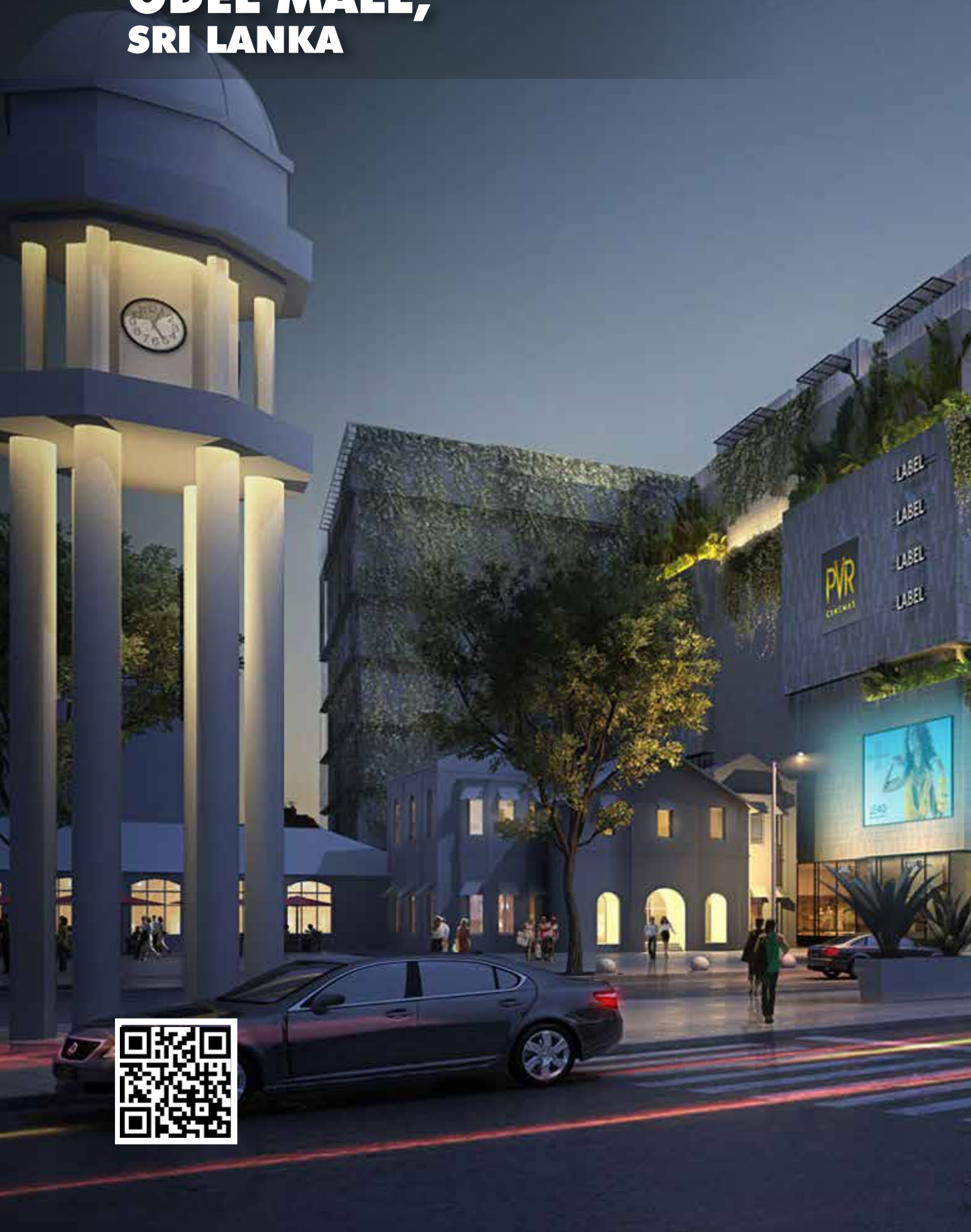


44-Storey, 307-room,
Luxury Hotel located
in Colombo,
Sri Lanka

Main Works

Electrical LV Panel Design,
Manufacturing and Supplying
Electrical Panel Boards (Main
Breaker Capacity – 3200A)

ODEL MALL, SRI LANKA





A unique shopping mall with fine dining and multi-cuisine restaurants, spa, two floor of multiplex cinema and exclusive spacious premium apartments surrounded by a lushly planted sky garden in the heart of the city of Colombo.

Main Works

Manufacturing and Supplying Electrical Panel Boards (Main Breaker Capacity – 3200A)

CAPACITY EXPANSION PROJECT FERENTINO TYRE CORPORATION, SRI LANKA

2022



**The largest tyre
manufacturing factory in
South-East Asia**

Main Works

Manufacturing and Supplying
Electrical Panel Boards (Main
Breaker Capacity – 3200A)

DAIRY FARMS, LANKA MILK FOOD SRI LANKA

2022

Two of Sri Lanka's largest dairy farms, extend across 1500 acres and houses over 2000 heads of cattle, located in the beautiful town of Nuwara Eliya, Sri Lanka.

Main Works

Manufacturing and Supplying
Electrical Panel Boards (Main
Breaker Capacity – 1600A)



447 LUNA TOWER SRI LANKA

2022

Contemporary designed 202 apartments spanning over 44 floors, poised in the heart of the city of Colombo by Belluna Co. Ltd. and Asia Capital PLC.

Main Works

Electrical LV Panel Design – Main Power Distribution Panel, Sub Distribution Panels & Capacitor Bank, Manufacturing and Supplying Electrical Panel Boards (Main Breaker Capacity – 3200A)



WATERFRONT INTEGRATED RESORT, SRI LANKA

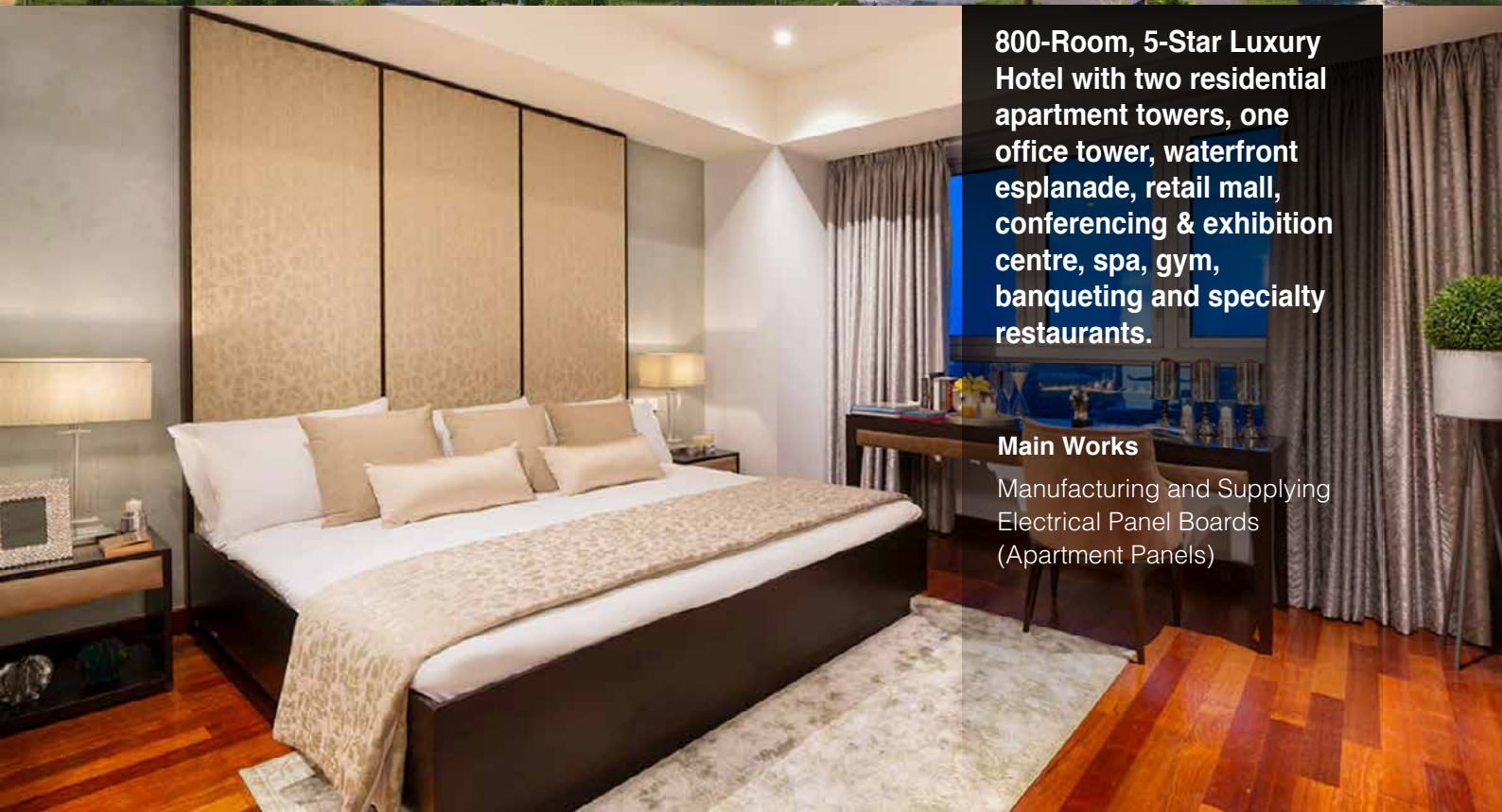
2021



800-Room, 5-Star Luxury Hotel with two residential apartment towers, one office tower, waterfront esplanade, retail mall, conferencing & exhibition centre, spa, gym, banqueting and specialty restaurants.

Main Works

Manufacturing and Supplying
Electrical Panel Boards
(Apartment Panels)



OOREDOO MALDIVES DATA CENTRE

2020

**Tier-3 Ready Data Centre,
located in Hulhumale,
Maldives.**

Main Works

Manufacturing and Supplying
Electrical Panel Boards (Main
Breaker Capacity – 2000A)



CINNAMON BENTOTA BEACH, SRI LANKA

2020



**159-Room, Luxury Beach Resort, nestled along
the mesmerizing Indian Ocean.**

Main Works

Manufacturing and Supplying Electrical Panel Boards
(Main Breaker Capacity - 1600A)



SONEVA JANI RESORT MALDIVES

2020

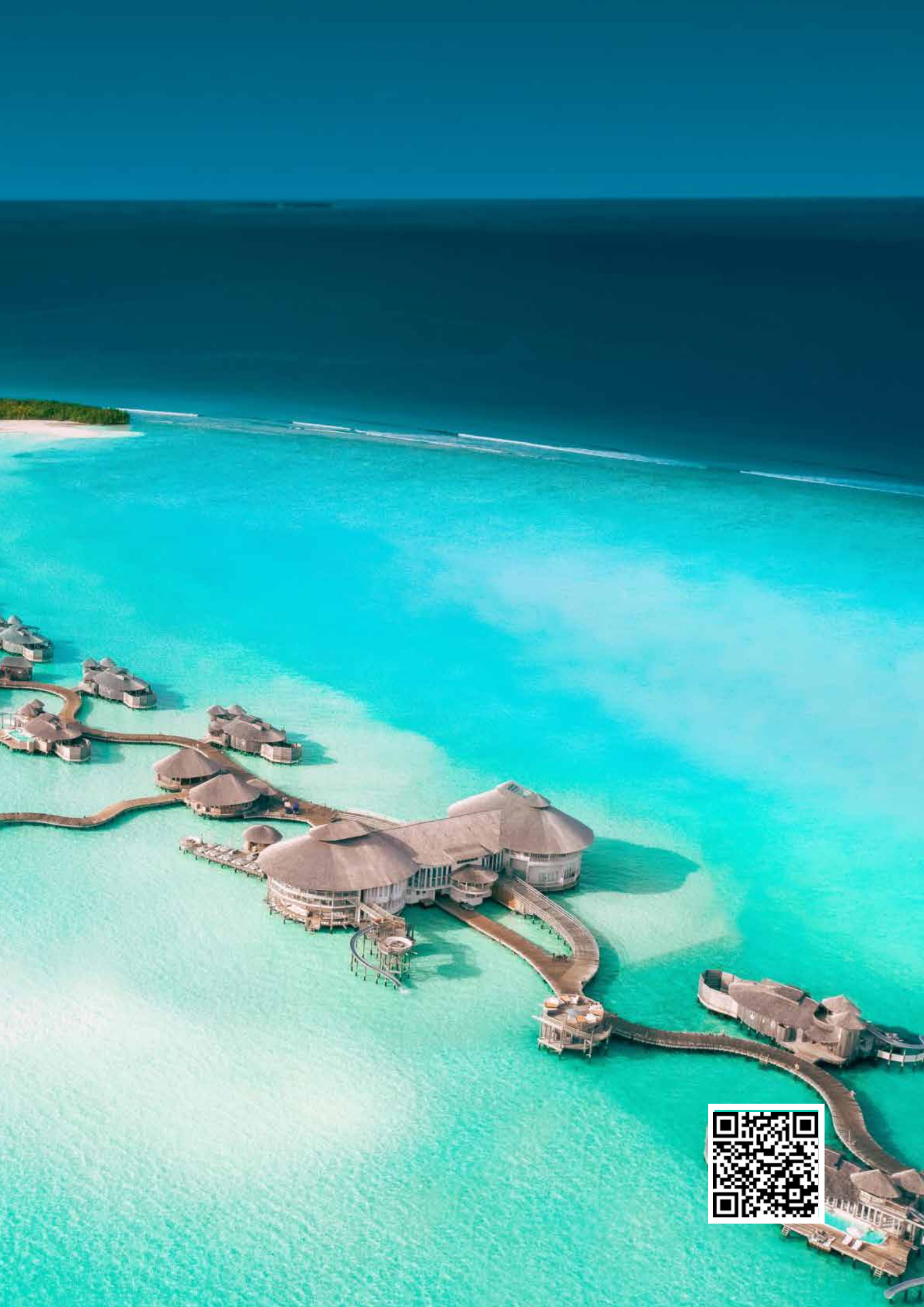
51 Over-water and three island stunning, luxurious residencies, located in Noonu Atoll, Maldives.

Main Works

6000A Synchronize Panel

Soneva Jani Phase II – 6300A
Main Busbar Panel







ASIRI HOSPITALS KANDY, SRI LANKA

2019

**7-Storey, multi-specialty
tertiary care hospital,
located in Kandy, Sri
Lanka.**

Main Works

Manufacturing and Supplying
Electrical Panel Boards (Main
Breaker Capacity – 3200A)



VAKKARU FIVE STAR RESORT (BAA-ATOLL), MALDIVES

2019

**113 Luxury Villas
and Suites, Five Star
Restaurants, Two Bars,
a Wine Cellar and an
Over-The-Water Spa,
located in a secluded
reef island in Maldives.**

Main Works

Manufacturing and
Supplying Electrical Panel
Boards (Main Breaker
Capacity - 4000A)



KIONYO TEA FACTORY, KENYA

2018



**A Global Quality Tea
Factory, located in Kionyo,
Meru County, Kenya.**

Main Works

Power Factor Correction -
Capacitor Bank Design

EXPANSION PROJECT - NORTH SAILS, COLOMBO, SRI LANKA

World's Leading Sail
Manufacturer, located
in Biyagama Export
Processing Zone, Sri Lanka.

Main Works

Manufacturing and Supplying
Electrical Panel Boards (Main
Breaker Capacity – 1000A)



SERENEDIVA TRANSIT HOTEL SRI LANKA

2016



**32-Room, transit hotel,
conveniently located within the
Bandaranayake International
Airport, Colombo, Sri Lanka.**

Main Works

Manufacturing and Supplying
Electrical Panel Boards (Main Breaker
Capacity – 250A)

WESTIN MALDIVES MIRIANDHOO RESORT

2016



70-Luxury Villas across eight distinct categories, beautifully situated on the UNESCO Biosphere reserve in Baa Atoll, Maldives.

Main Works

Manufacturing and Supplying Electrical Panel Boards (Main Breaker Capacity – 1600A)



ROBINSON NOONU, ORIVARU, MALDIVES

2015

150-room, Luxury Resort,
located in Orivaru, Maldives.

Main Works

Manufacturing and Supplying
Electrical Panel Boards



AMARI HAVODDA, ORIVARU, MALDIVES

2015

**120-Beachfront and Overwater
Villas, located in Gaafu Dhaalu
Atoll, Maldives.**

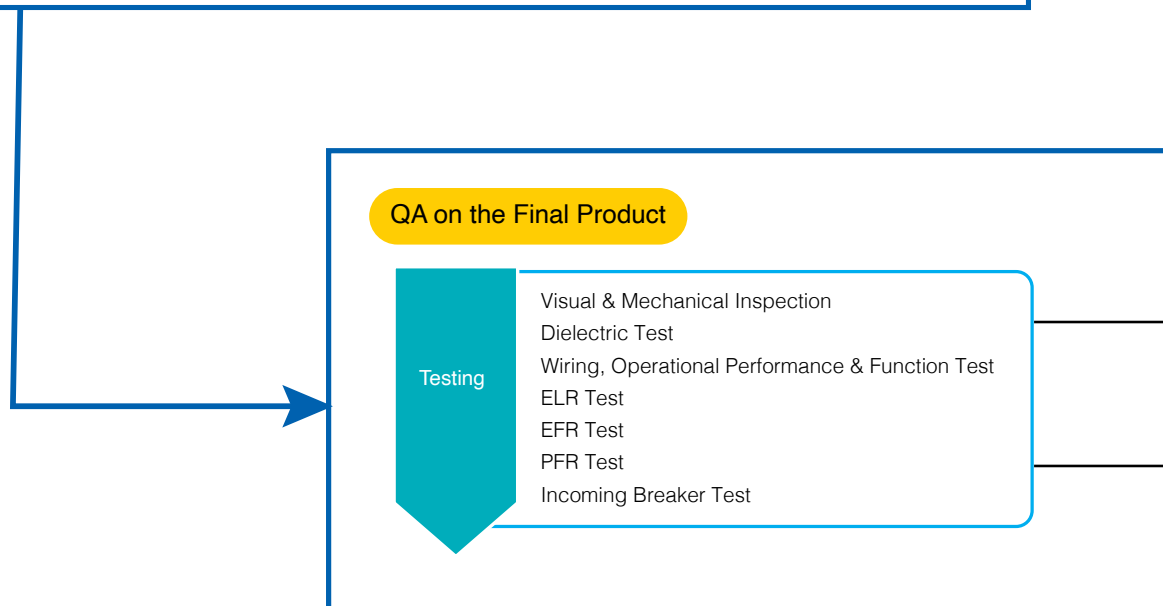
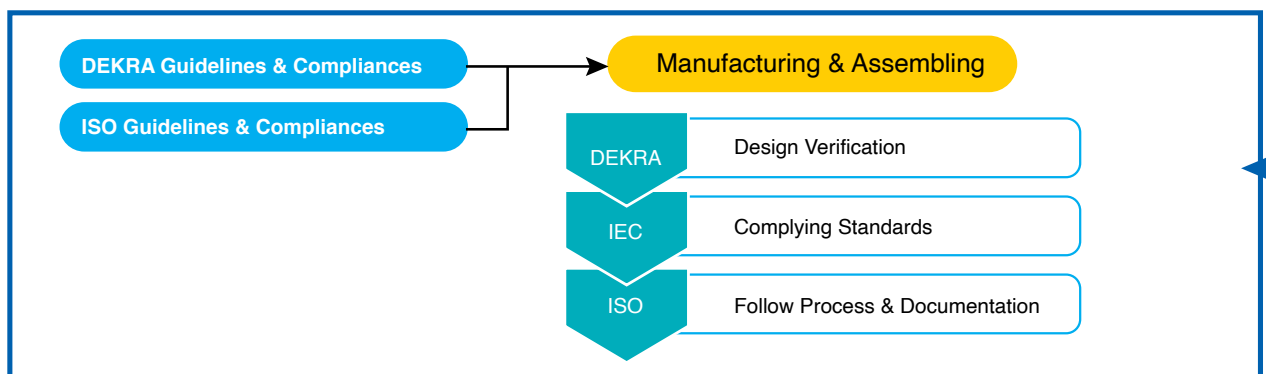
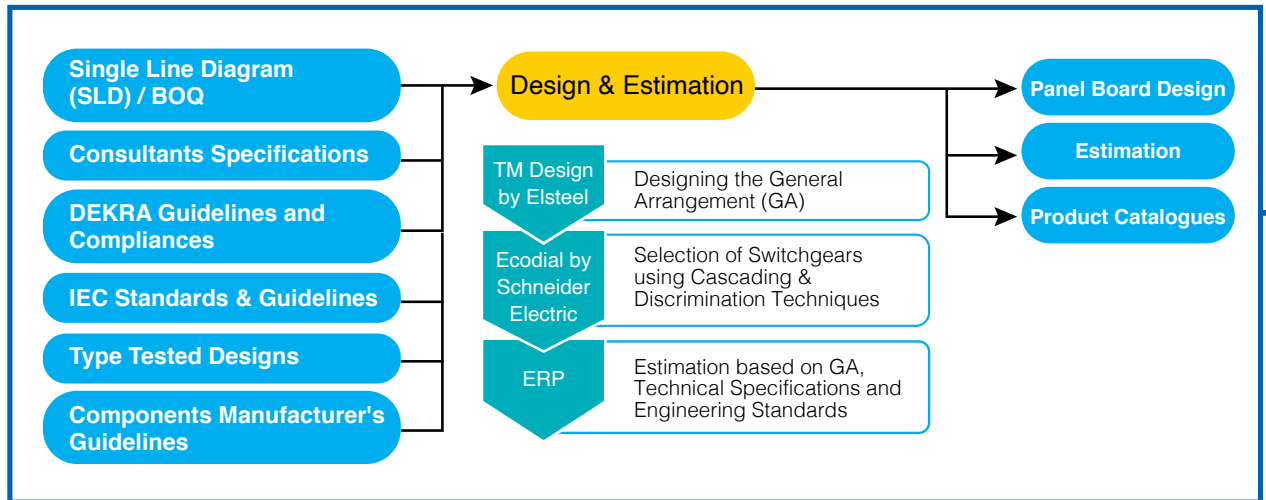
Main Works

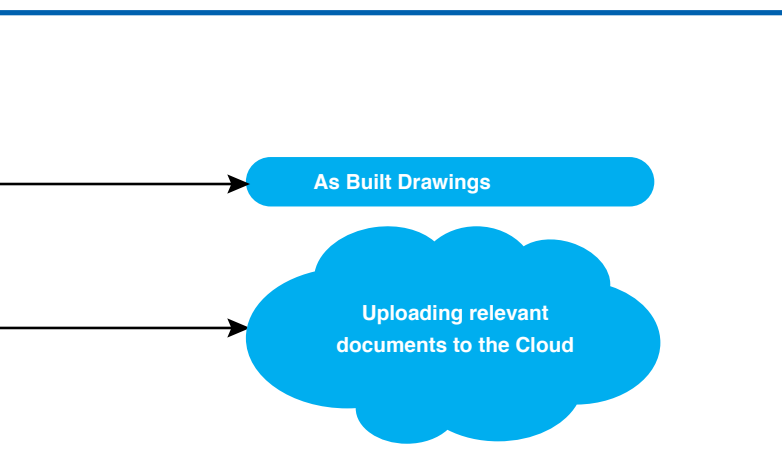
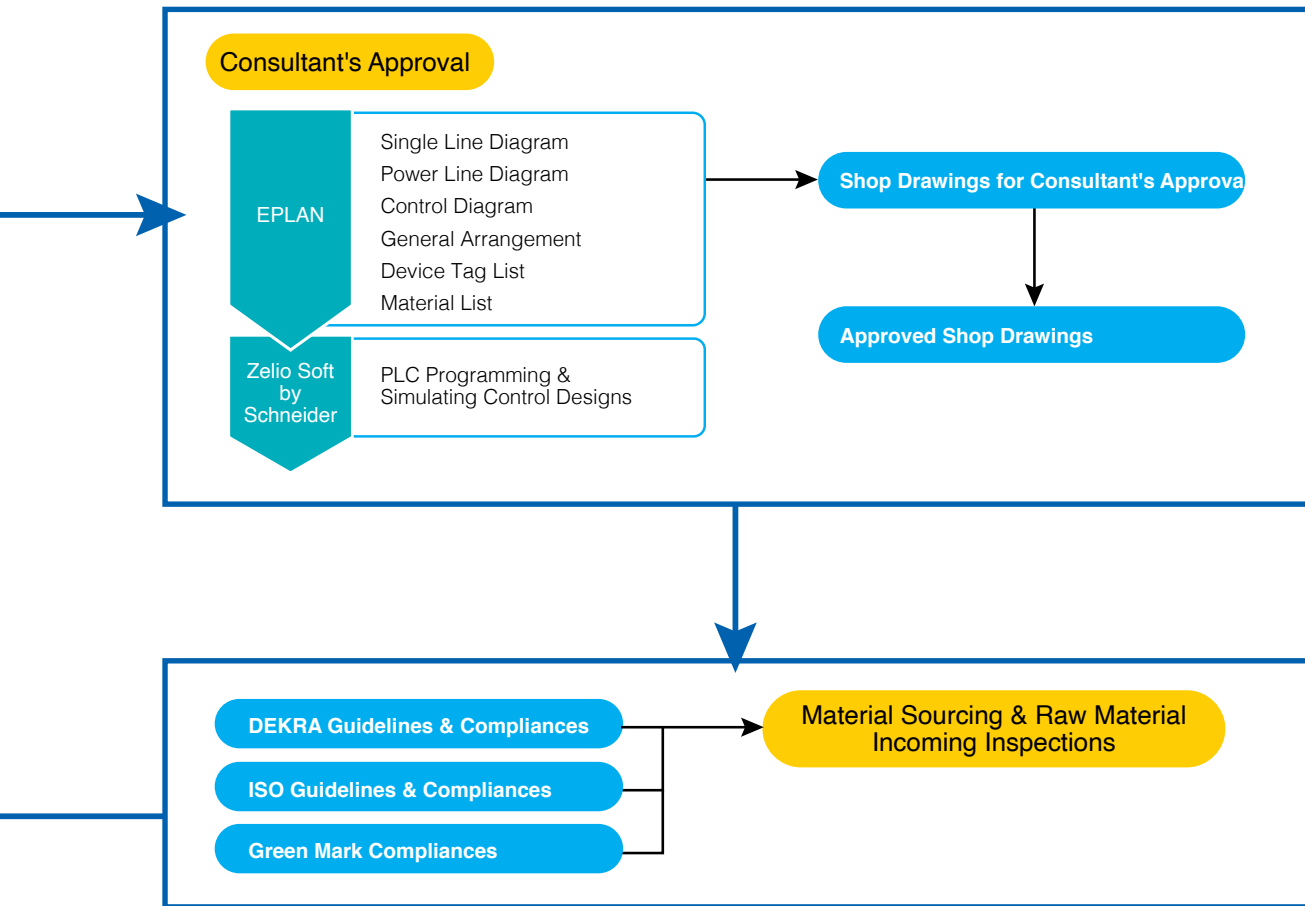
Manufacturing and Supplying
Electrical Panel Boards (Main Breaker
Capacity – 2000A)



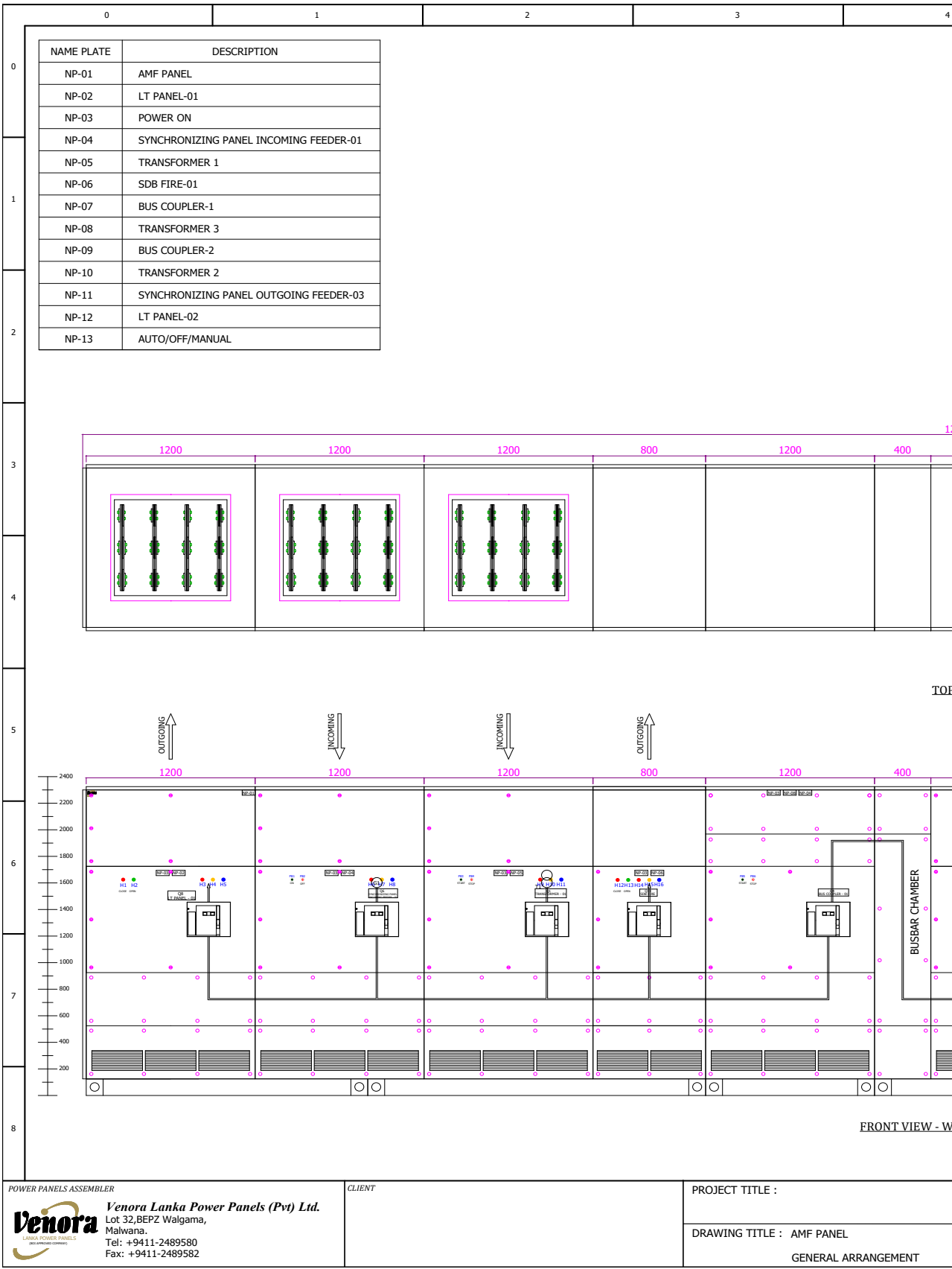
DESIGN VERIFICATION PROCESS

IN ELECTRICAL PANEL BOARD ASSEMBLING





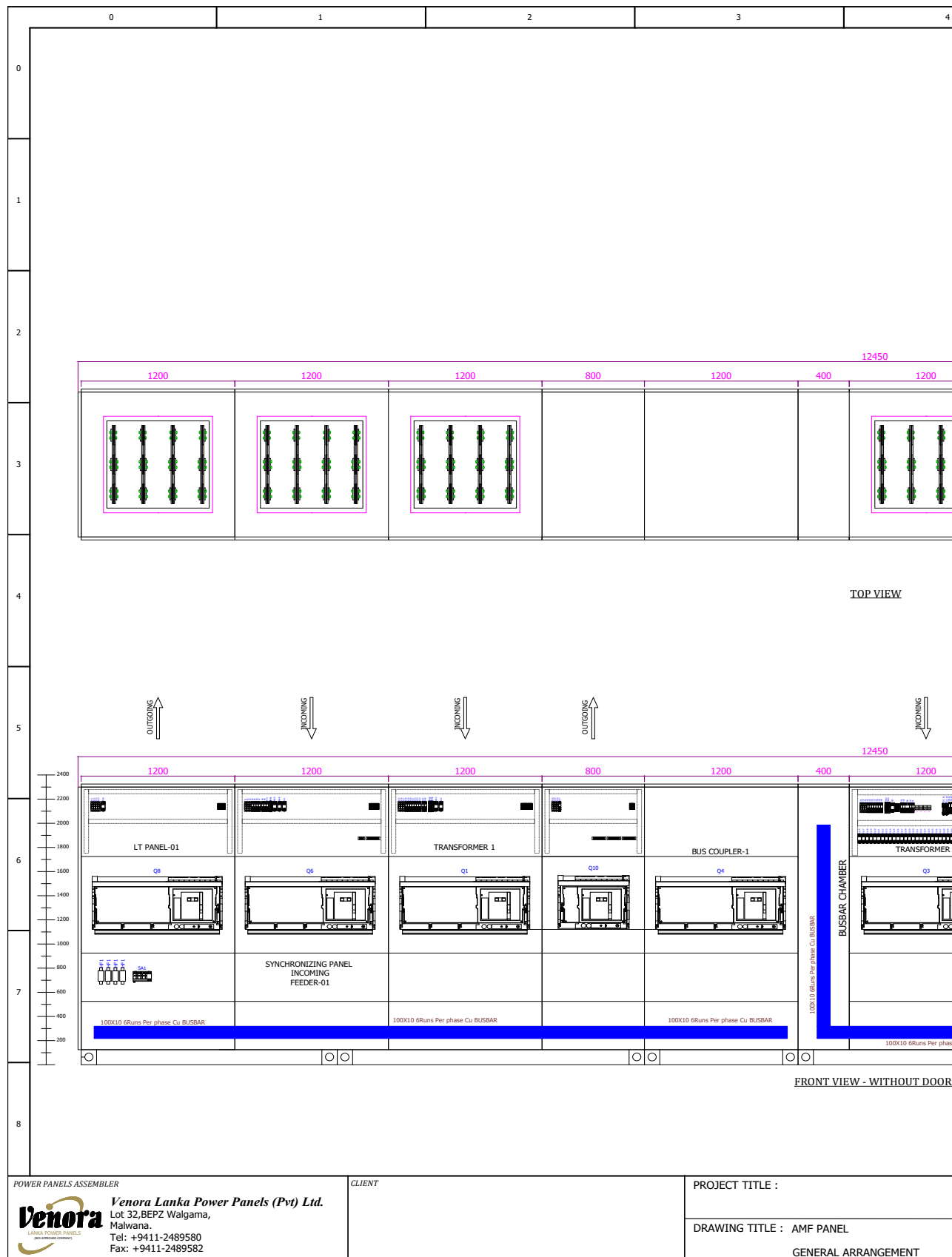
AMF Panel - General Arrangement



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AMF Panel - General Arrangement

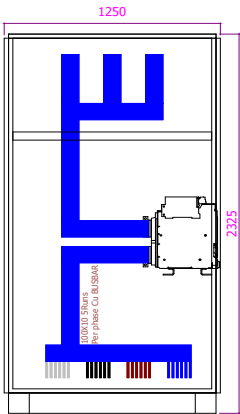
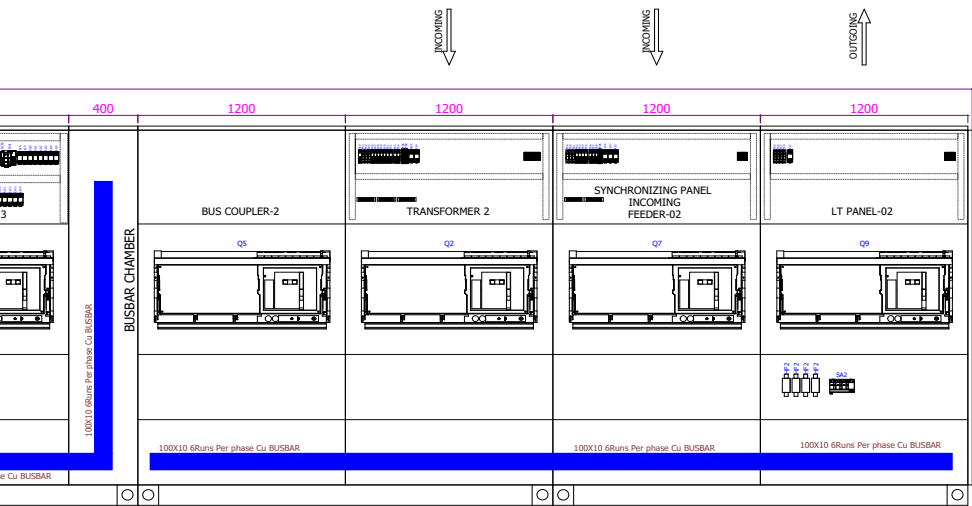
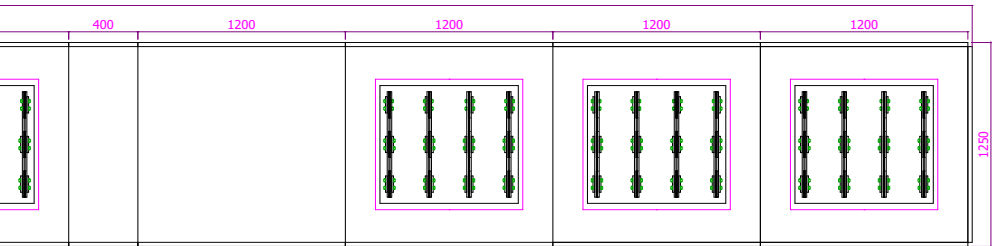


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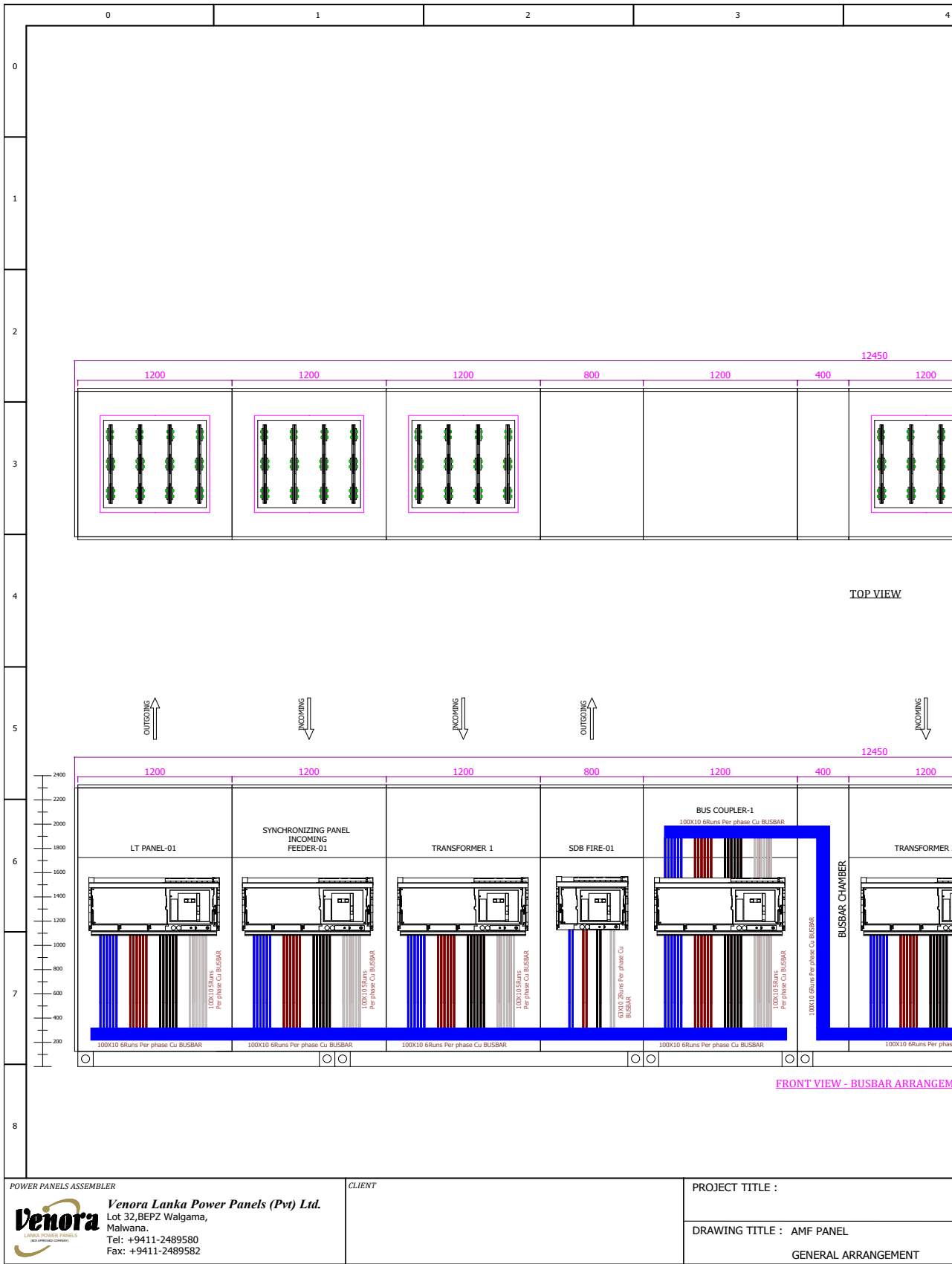
· Main bus bar size per phase	6 x 10 x100mm
· ACB terminals	In - Vertical Out - Vertical
· BUSBAR	6300A
· Short Circuit Level	100kA



SIDE VIEW WITHOUT COVER

		REVISIONS				DRAWN BY		JOB NO :
		DATE	REV	DESCRIPTION	STATUS			
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AMF Panel - General Arrangement

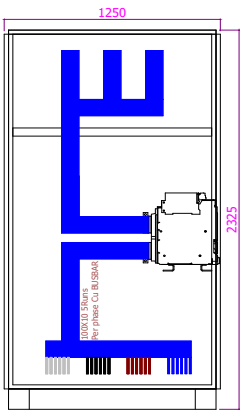
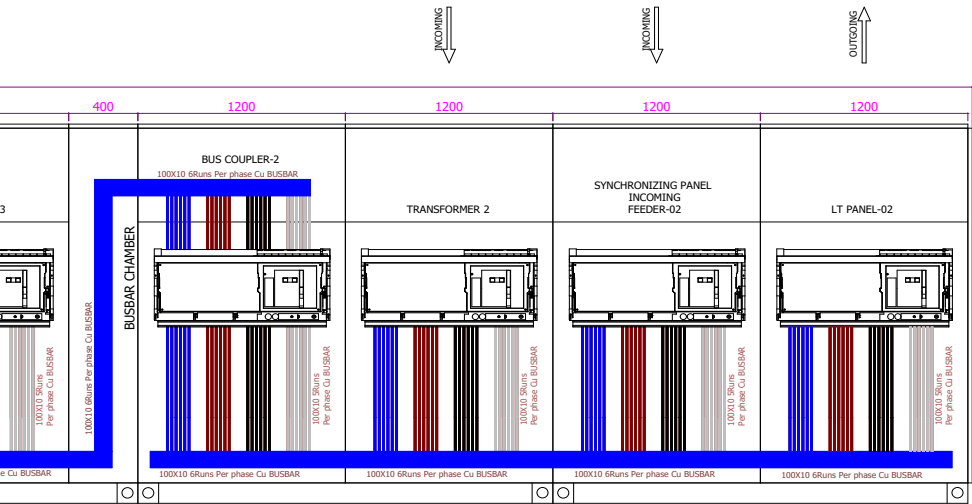
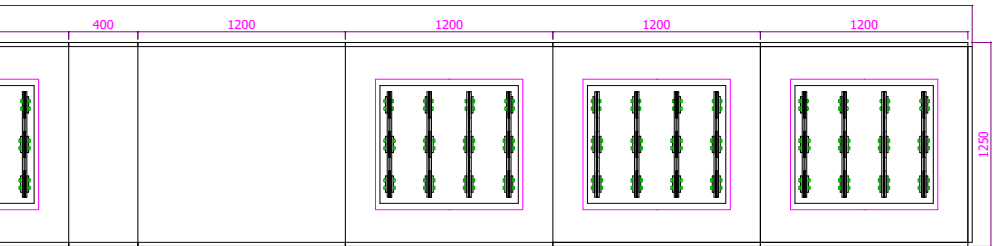


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· Main bus bar size per phase	6 x 10 x100mm
· ACB terminals	In - Vertical Out - Vertical
· BUSBAR	6300A
· Short Circuit Level	100kA



SIDE VIEW WITHOUT COVER

	F	DATE	REV	REVISIONS DESCRIPTION	STATUS	DRAWN BY		JOB NO :
	QTY					CHECKED BY		DRAWING NO:
	01					APPROVED BY		SHEET : 7 of 35
						APPROVED FOR FABRICATION		



We are the Official Business Partner for Elsteel Enclosure Systems from Denmark.





Schneider
Electric

ABB

ROUTINE VERIFICATION

Routine Verification is the process that evaluates the Electrical Switchboards to ensure the components and controls operation in accordance with design specifications.

Following tests are conducted on each LV switchboard before dispatch

- 1. Visual and Mechanical Inspection (IEC Clause – 11.1 to 11.8)**
- 2. Dielectric Test (IEC Clause – 11.9)**
 - Insulation Resistance Test
 - High Voltage Test
- 3. Wiring, Operational Performance and Function Test (IEC Clause – 11.10)**
 - Functional Test
 - Phase Sequence Test
 - Power Testing for Outgoing Terminals
 - Testing of Metering Devices (Ammeter, Voltmeter and Power Analyzer)
- 4. Earth Leakage Relay Test (IEC Clause – 11.10)**
- 5. Earth Fault Relay Test (IEC Clause – 11.10)**
- 6. Phase Failure Relay Test (IEC Clause – 11.10)**
- 7. Incoming Breaker Test (IEC Clause – 11. 10)**



EARTH LEAKAGE RELAY (ELR)

Why ELR?

ELR is designed to provide protection from electrocution or serious physiological risks, if an excessively high current flow through the human body for a longer period of time, in an event of contact with a live conductor of an electrical system.

Operation

Ideally, the vector sum of three phase current is zero.

In a fault condition, ELR detects the leakage current via a Core Balance Current Transformer (CBCT) and compares the detected value with the selected fault current level and the set time. When it exceeds the set values, ELR will trip and transmit a signal to activate the trip coil of the circuit breaker.

Testing Procedure

Standard – IEC Clause – 11.10

1. First, prevent the unauthorized access via providing warning sign and sufficient barricade on testing area.
2. Energize the switchboard from the power supply of test bench.
3. Connect the Phase, Neutral and Earth probes of RCD Tester to a Phase Busbar, Neutral Busbar and Earth Busbar respectively as shown below.

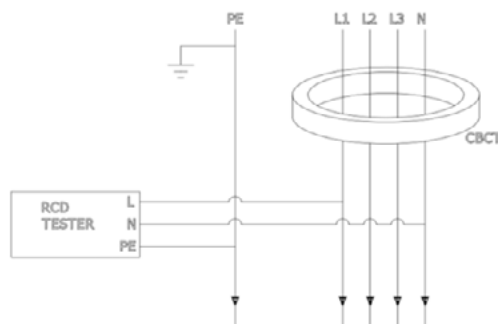


Figure: Test Lead Configuration of RCD Tester

4. Connect the Earth Busbar of the switchboard to the proper earthing point of the electrical power system of the factory.
5. Set the required leakage current and the tripping time of ELR and press the test button of the RCD tester to create a leakage current.

Accepted Criteria

Leakage current at the time of tripping of ELR should be matched with the set value (Leakage Current Limit) and the tripping time should be within +/- 300ms of the set value (Response Time).



EARTH FAULT RELAY (EFR)



Why EFR?

EFR is designed to ensure the protection of equipment from earth fault.

Operation

EFR is a voltage operated device.

In a fault condition, a potential difference occurs across the EFR and when it exceeds the set values, it will transmit a signal to the circuit breaker to trip.

Testing Procedure

Standard – IEC Clause – 11.10

1. First, prevent the unauthorized access via providing warning sign and sufficient barricade on testing area.
2. Energize the switchboard from the power supply of test bench.
3. Set the required fault current and time delay of EFR.
4. Connect the test lead of the Primary Current Injector through a Current Transformer (CT) as shown below.

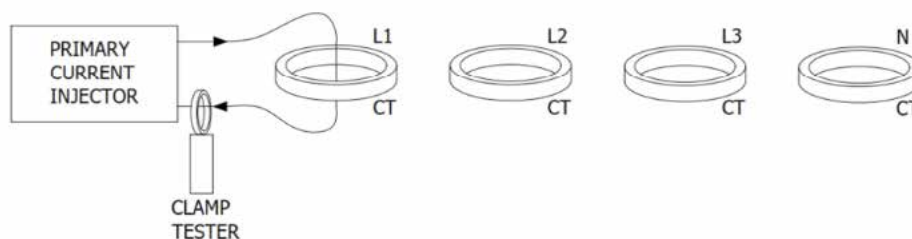


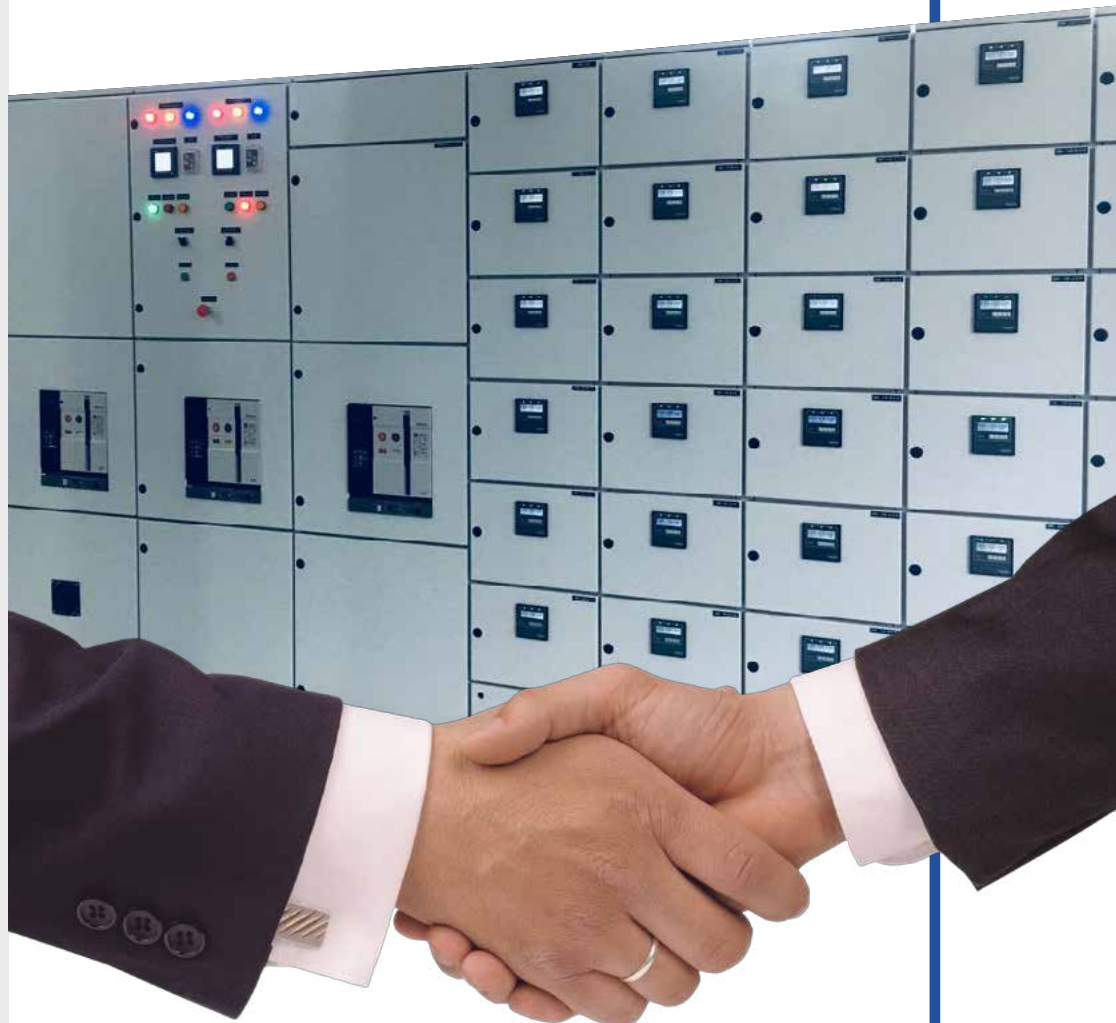
Figure: Test Lead Configuration through CT

5. Get the readings of fault current and time delay at EFR tripping time.
6. Repeat the process for all CTs.

Accepted Criteria

Fault current at the time of tripping of EFR should be matched with the set value and the delay time should be within $\pm 2s$ of the set value.

WE TAKE CARE OF



EXPORT PACKAGING & LOGISTICS

Proper packaging and fumigation are done with maximum safety and we are responsible of goods up to the customer warehouse or the construction site under the DDP basis.

INSTALLATION AND COMMISSIONING OF ELECTRICAL SWITCHBOARDS

On request of the client, Venora technical team will be available on-site during Electrical Switchboards commissioning. This process involves evaluations, verifications and inspections to determine the system operation is in accordance with the project requirements.

TRAINING

We are providing on-site training and demonstrations for in-house maintenance staff. A service manual will be issued for comprehensive information and guidance for Switchboard Handling, Installation and Maintenance.

WARRANTY AND AFTERSALES

Venora gives a comprehensive International Warranty and provides aftersales services.

CERTIFICATIONS

1. Design Verification Test Certification

Test Designs – 400A, 800A, 1600A, 2500A,
3200A, 3500A, 4000A, 6300A

2. ISO 9001 Quality Certification

3. Green Certification

TEST CERTIFICATE

Issued to:

Venora Lanka Power Panels (Pvt) Ltd.
Lot: 32, BEPZ, Walgama
Malwana
Sri Lanka

For the product:

Low-voltage switchgear and controlgear assembly

Trade name:

ELSTEEL

Type/Model:

6300A Techno Module Assembly

Ratings:

I_n max. 6300 A, U_e max. 690 V, U_i max. 1000 V, U_{imp} max. 12 kV
 I_{cw} max. 120 kA - 1 s / 100 kA - 3 s
 I_{cc} max. 100 kA at 690 V, I_{cc} max. 100 kA at 415 V
For more details see annex

Manufactured by:

Venora Lanka Power Panels (Pvt) Ltd.
Lot: 32, BEPZ, Walgama
Malwana
Sri Lanka

Subject:

Design verification

Requirements:

IEC 61439-2:2011
Clauses 10.2.5, 10.4, 10.5, 10.9, 10.10.2.3.5, 10.10.2.3.7a, 10.10.2.3.7c,
10.11, 10.12, 10.13, 8.101

Remarks:

The tests were performed in 2019 and 2020
(see general notes on tests in the report)

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2252514.01-INC, date 8 February 2022.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 8 February 2022

Number: 2252514.100

DEKRA Certification B.V.

F. S. Strikwerda
Certification Manager

© Integral publication of this certificate and adjoining reports is allowed

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T +31 88 96 83000 F +31 88 96 83100 www.dekra-certification.com Company registration 09085396

AWARDS & TESTIMONIALS

- 2019 – IESL Engineering Excellence Award for Innovation
- 2018 – National Exporters Award -National Chamber of Exporters
- Silver Award Winner
- 2017 – National Exporters Award -National Chamber of Exporters
- Bronze Award Winner
- 2017 – NCE Export Award
- 2012 – (Rome, Italy) – The Global Award for Perfection, Quality and Ideal Performance
- 2012 – Arch of Europe for Quality & Technology Award
- 2010 – Commemorating the Launch of 1000 Base Stations in Sri Lanka
- 2010 – Honorary Award for the “Trusted Service” to the Engineering Sector in Sri Lanka at the Swarna Lanka Award Ceremony



CONTACT DETAILS

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Factory

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Walgama, Malwana, Sri Lanka.

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www.venoraglobal.com

