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ABOUT US

Wilmar International L.L.C, has been incorporated in USA by a consortium of Highly Qualified, skilled professionals who bring in tremendous experience in Electrical, Electronics and Lighting Designs to offer Energy Efficient & Application Specific solutions based on Technological Evolution for Power Distribution, Lighting, Controls and Automation needs of Infrastructure, Industrial, Commercial and Residential Building segments in line with International standards. M/s. Wilmar thro' its associate companies has also established technology centers for research & development of new products and adoption of latest technology to benefit customers that has resulted in an initiative to set up state of the art manufacturing facility spread over an area of 55000 sq.mtr. for Switchboards and sandwich busways, thro' an associate company – M/s. Federal Electricals in Abu Dhabi under Wilmar Brand.

OUR PRODUCTIONS

We are proud to produce products that can meet with the local authorities' standards/regulations and IEC standards requirements as well in our fully automated production line to exceed our customer's expectation in quality, delivery and cost.

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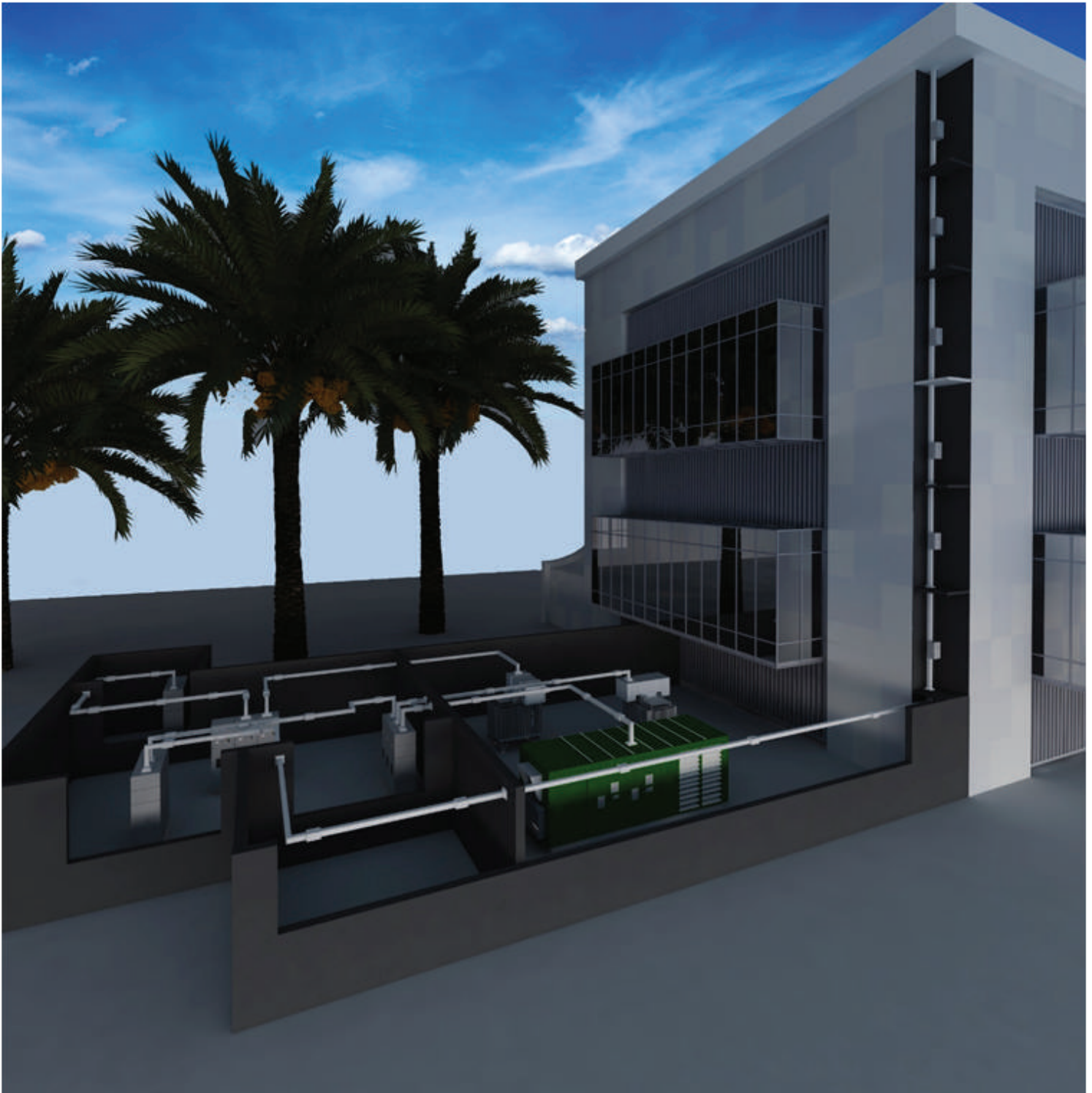
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BUSWAY SYSTEM

In electrical power distribution, a busway (also called bus duct), is a sheet metal duct containing either copper or aluminium bus bars for the purpose of conducting a substantial current of electricity. It is an alternative means of conducting electricity to power cables or cable bus and the following are some of the benefits of using busway system instead the conventional cables in high rise buildings.

- 01) Less Voltage Drop, Low Impedance & Electromagnetic generation, Higher Short Circuit withstand
- 02) Light Weight
- 03) Easy and Maintenance free Installation

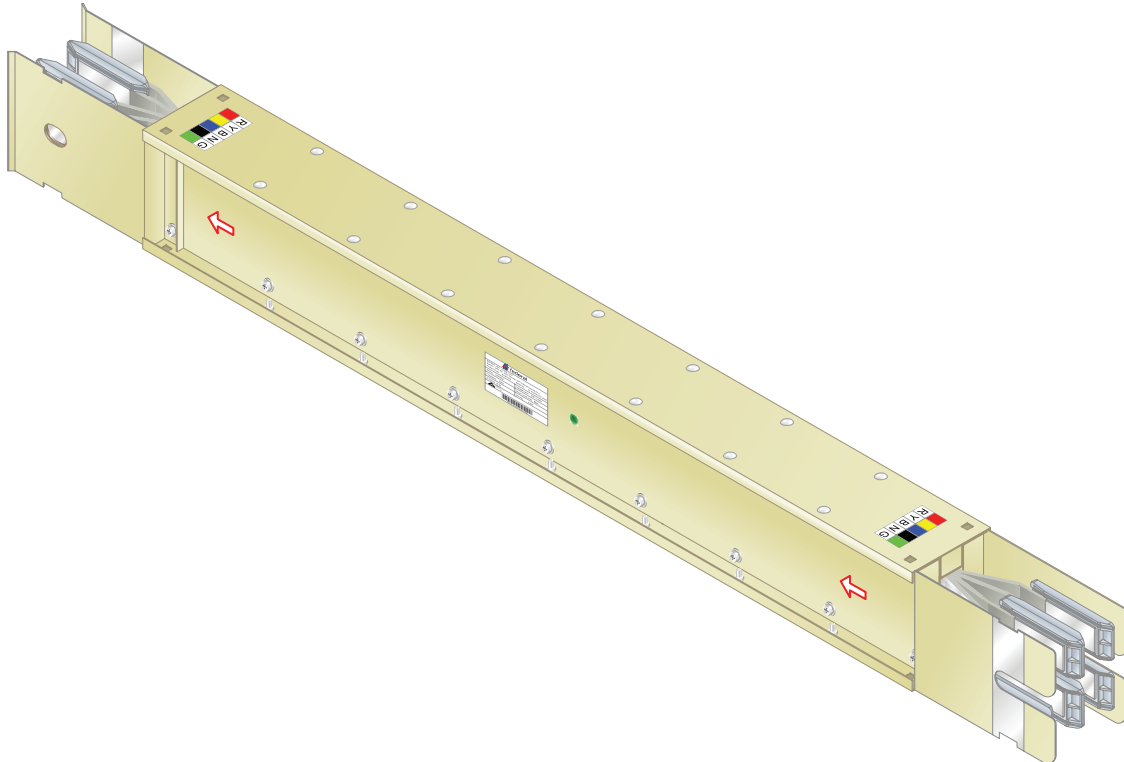


WILMAR BUS WAY - PRODUCT FEATURES

Compact and Safer Design

Wilmar Busway systems is designed in sandwich type arrangement of insulated conductors in metal enclosure making it a compact design, offer higher short circuit withstand capacities and are being referred in place of conventional means of electrical power distribution via cables, air insulated bus ducts.

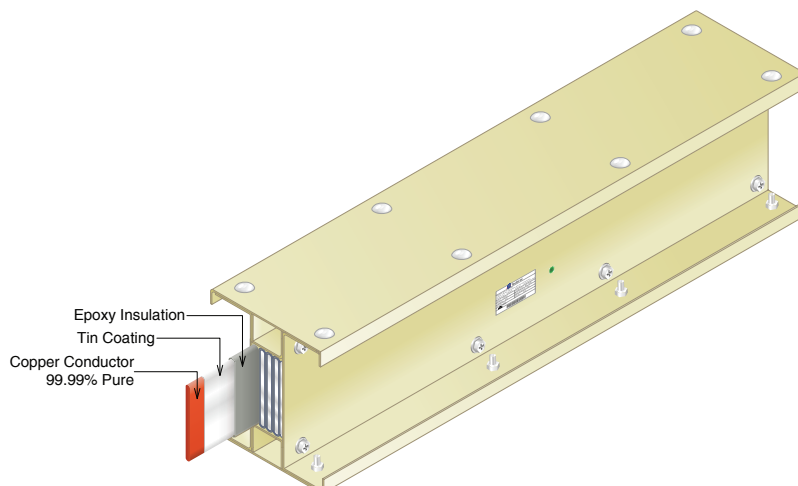
Use of superior insulation, specially designed components and assembly, offer resistance to fire in building penetrations and resistance to flame propagation in compliance with IEC standards making these systems more safer, durable and reliable.



Unique Structure

Specially developed enclosure design, involving 1.6mm thick sheet steel offers excellent strength to withstand electrodynamic forces originating during short circuits and can act as an integral ground. Larger surface area offered vide this design ensures faster transfer of heat resulting lesser temperature rise and increase in life of insulation, which in turn extends service lie of entire system.

Assembly of precisely fabricated housing components is done in such a way that desired Ingress protection is maintained without any additional welding work.



CONDUCTOR

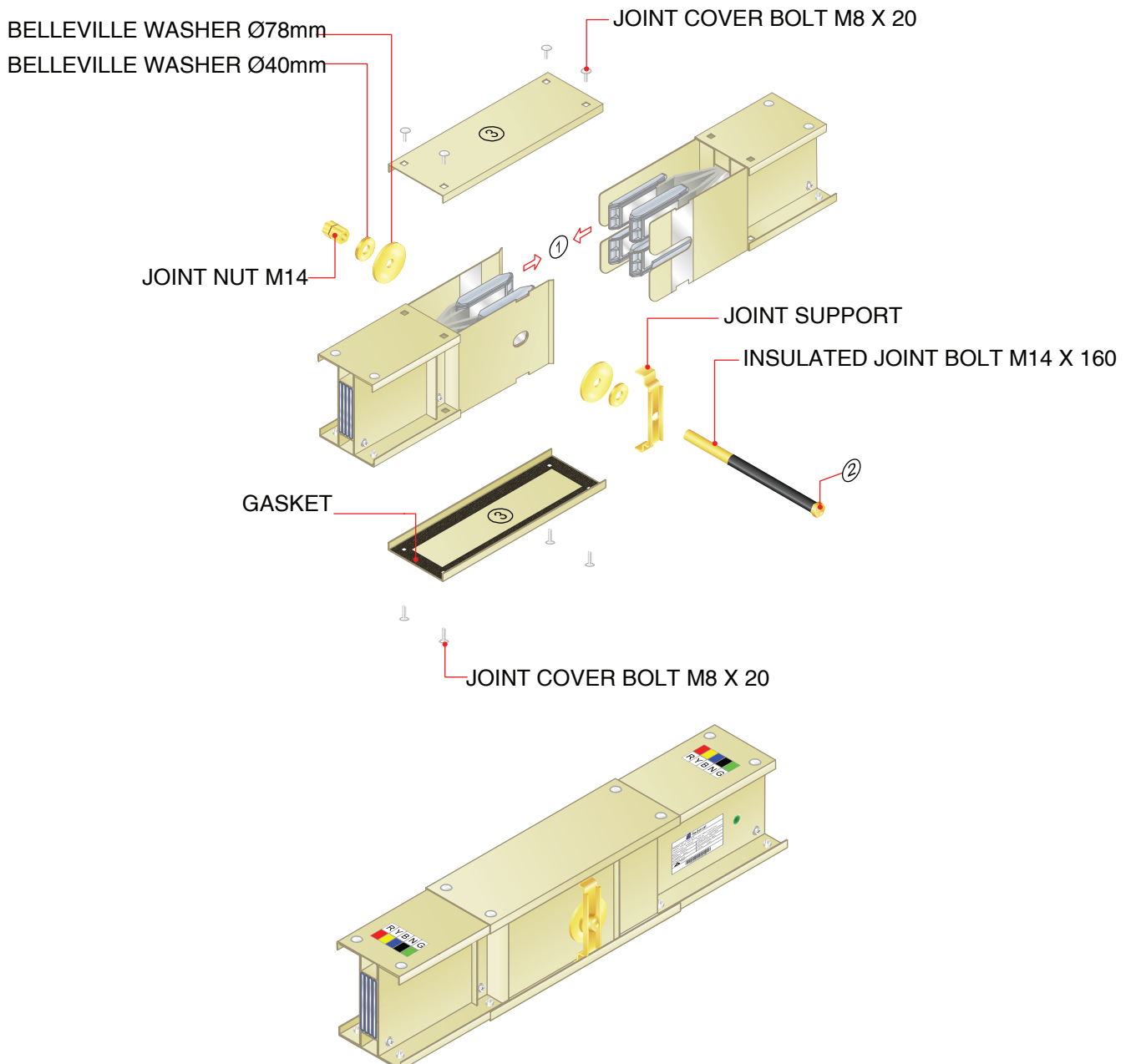
We at Wilmar Busways are very keen in selection of conductors and the conductors used by us are imported from Canada, USA & Europe that ensure maximum conductivity. Copper & Aluminium conductors with Tin Coating are available as standard whereas Silver Plated conductors also can be provided upon request.

INSULATION

Durable Epoxy Insulation having longer service life, has been used for conductors of "Wilmar Sandwich Busway Systems". Selection of Insulation materials has been done carefully by conducting special tests to ensure their electrical and mechanical properties. Class B (130Deg C) Epoxy Insulation is offered as a standard whereas Class F (155Deg C) Insulation is also available in manufacturing range.

JOINTS

Wilmar Busways offer direct male female jointing system that has lesser hot spots and thus ensure lesser temperature rise at joint areas. Besides this, we have provided advanced arrangements similar to heat sink design at joint areas, it is found beneficial for faster heat dissipation.



Plug-In (Tap Off) Outlet & Plug-In (Tap Off) Unit

Plug in contacts are Maintenance free, these silver plated plug in contacts have been designed to maintain proper contact pressure with less resistance throughout the life of busways.

An adequate enclosure design with extended ground and neutral conductors are offered as standard.

Plug in Box has been successfully type tested for ingress protection, short circuit withstand, mechanical operations and thermal cycling as per latest IEC 61439 standards.

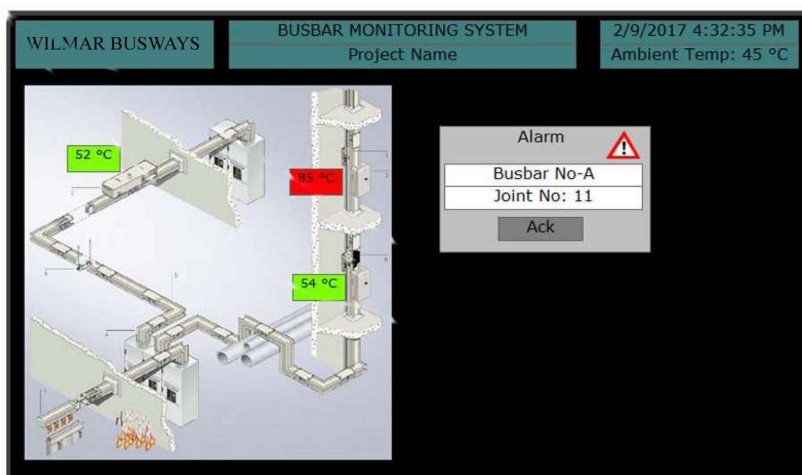
A unique padlocking feature prevents opening of plug in box door, while the system is in ON condition.

Advanced series of Plug-In Boxes are available with surge protection modules and communication based energy meters, multifunction meters.



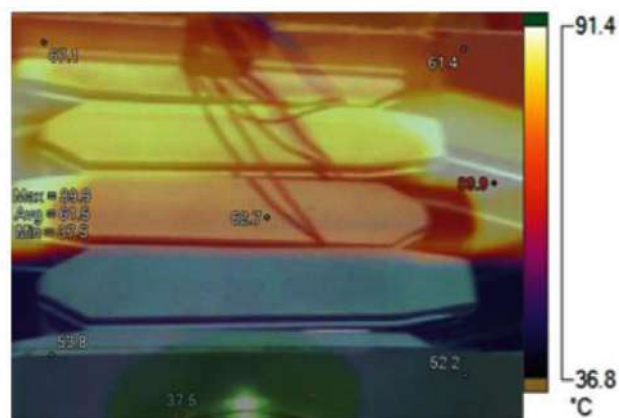
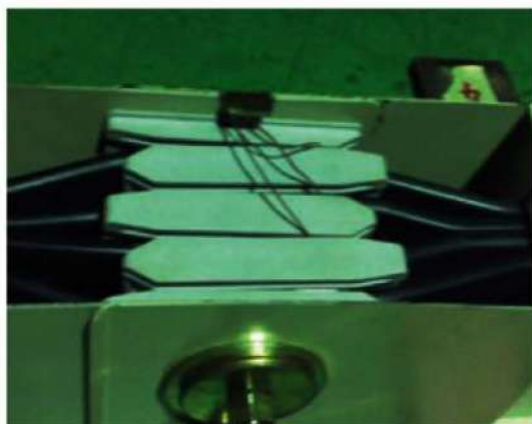
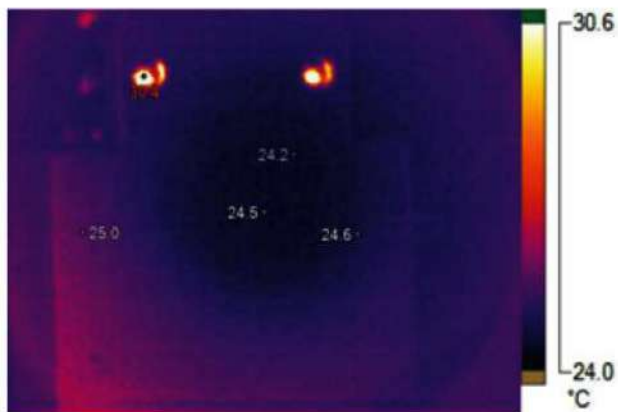
SMART AND INTELLIGENT FEATURES

In sandwich busway systems, mechanical interlocks and special joint bolts ensure error free and reliable connections to prevent hazards like temperature rise due to loose connections. Furthermore, Temperature alarm Controllers can be useful to monitor healthiness of system and initiative preventive measures, incorporation of this feature benefiting our customers is possible due to design & patented technology, which has been developed at our research centre. This feature has been admired by many of our customers, consultants and they have conferred 'Smart & Intelligent' title for our busway.



THERMOGRAPHIC SURVEY

Thermal Image of Electrical Distribution Busway – Sample Picture



The temperature of electrical components and connections are indicative of their health. Excessive heat will be generated due to increased electrical resistance, by faulty components and by loose or deteriorated connections, short-circuit, overload, mismatched or improperly installed components.

Conduct thermographic survey for recording temperatures and thermal images at hotspot areas, electrical connections by using infrared technology based thermal imager.

Generation of report in soft & hard copy format, on the basis of survey result and analysis incorporating recommendations in case any to client for conducting further maintenance / service / repair activity as applicable and recommended by manufacturer.



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