SUDHIR®
Powering The Future

SANDWICH BUS DUCT

Innovative

Safe & Reliable

High Mechanical Strength

Ease of Installation

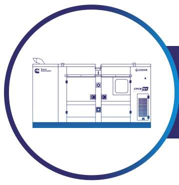
OVERVIEW

Sudhir is a name synonymous with Power. Five decades in the relentless pursuit of excellence, Innovation and technical expertise has given us a formidable presence across four key verticals: Power Generation, Power Distribution, Equipment Rentals, and Power tools. The company now has global footprint with businesses spread across United Kingdom, UAE & Kingdom of Saudi Arabia.

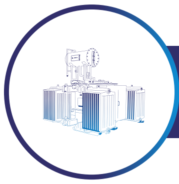
The group's robust partnerships with global leaders such as Cummins, Schneider, Beaward, Milwaukee Tools & JLG have enabled it cater to the needs of over 100,000 customers, served by a dedicated team of over 4000 professionals across multiple manufacturing facilities in India.

With the advantage of being an end-to-end solution provider in its field, At Sudhir, we combine global technology with local expertise to meet customer's requirements and offer the advantage of multi-product integrated solutions. This manifests into single-window responsibilities, and in turn translates to value packages giving an unparalleled peace of mind to our customers.

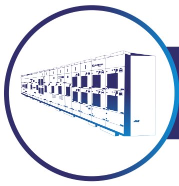
Our success in the worldwide markets for power solutions is fuelled by our dedication to quality and customer satisfaction.



GENERATORS

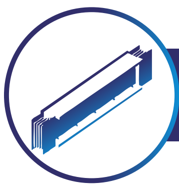


TRANSFORMERS



HT/LT PANELS

PACKAGED SUBSTATION



SANDWICH BUS DUCT

SUDHIR AT A GLANCE

- Over 50 Years of Leadership
- One-Stop Solution
- Experienced & Dedicated Team
- 24/7 After-Sales Service
- Customer Centric Approach

OUR PLANTS

State of the art manufacturing facilities at Manesar, Jammu, Silvasa & Bhiwadi.

Manesar

Jammu

Silvasa

Bhiwadi

PRODUCTION

THE POTENTIAL OF SANDWICH TYPE BUS DUCTS

Enhance your power distribution with our state-of-the-art Sandwich Type Bus Ducts. Engineered for energy efficiency, these bus ducts are designed to meet the diverse needs of modern industrial, commercial and data centre environments.

Our Bus Duct stands as a sophisticated assembly, comprising a network of conductors with one or multiple bus bars, separated by insulating material. Encased within pre-fabricated sections, these ducts feature copper or aluminium bus bars, allowing seamless power extraction at designated plug-in points strategically placed at required intervals. A typical Bus Duct system includes essential components like straight sections, flanged ends, elbows, end covers, plug-in boxes, and other customized accessories tailored to specific site demands.

INNOVATIVE FEATURES:

Low Impedance:
Minimal voltage drop and power losses, resulting in better efficiency.

Compact Design:
Space-saving structure allows more room for other services.

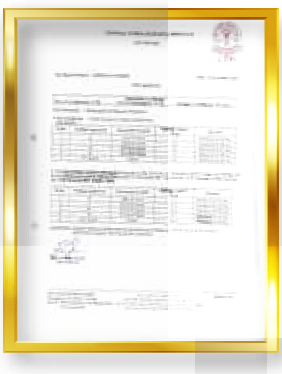
High Mechanical Strength:
Robust and sturdy metal enclosure ensures superior durability.

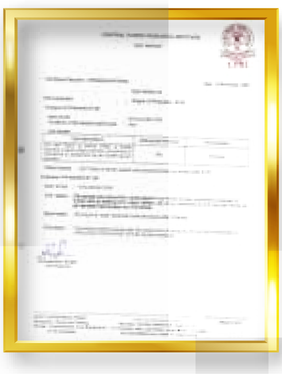
Flexible Distribution System:
Easy and quick to install, with the ability to modify as needed.

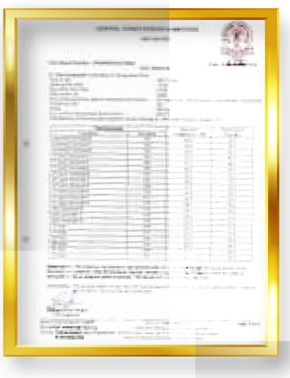
Superior Insulation:
Excellent performance against short circuit dynamic forces.

Enhanced Ingress Protection
Secure against flashover due to ingress, ensuring safety and reliability.

CERTIFICATE





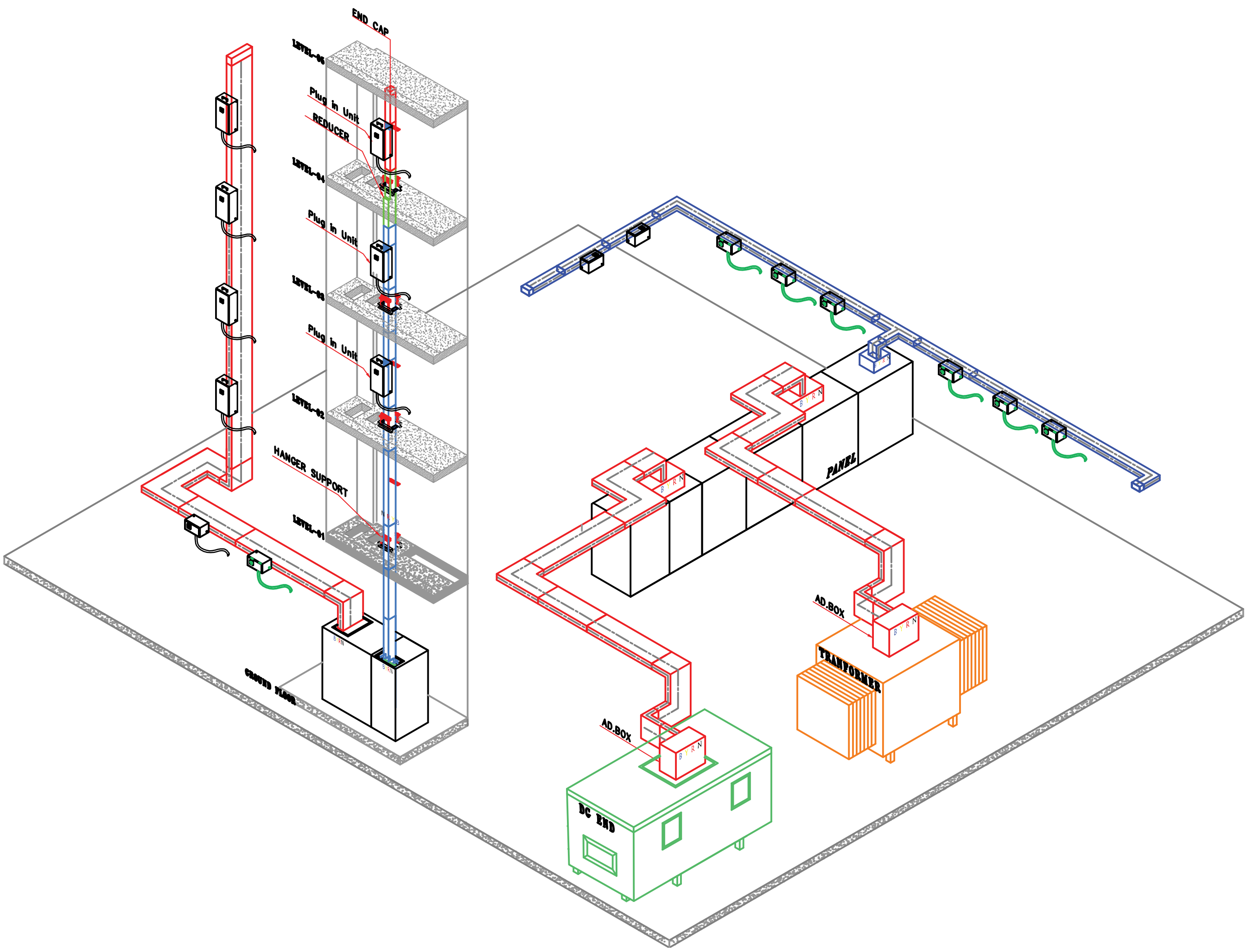


APPLICATIONS OF SANDWICH TYPE BUS DUCTS

Feeder-style bus ducts don't feature plug-in openings. Instead, they serve a crucial role in interconnecting equipment. Picture them as the bridge between a transformer/Genset and a switchboard, seamlessly transferring electricity from one vital component to another.

RISING MAINS / DISTRIBUTION BUS DUCT

A Rising Mains (Vertical Distribution) or Plug-in bus duct system (Horizontal Distribution) can feature disconnect switches and other devices. For instance, they can be used to distribute power along a building or assembly line. Plug-in Type Boxes with disconnects can be easily installed on Sandwich Bus Ducts.



GUARANTEED TECHNICAL PARTICULARS

DESCRIPTION	UNITS
Relevant Standard	IEC 61439-1 & 6
Enclosure Material	1.6 mm GI
Rated Operating Voltage	1000 V AC
Impluse withstand Voltage	12kV
Plug in Box	upto 630A
Configuration	3P/4P/5P + 50% Integral Earth
Paint Shade	Power Coated (RAL 7035)
Bus Bar Insulation	CLASS F (Polyester + mica)
Degree of Protection	IP54 for Plug-in-Type / IP55 & IP65 for Feeder

		ALUMINIUM CONDUCTOR			COPPER CONDUCTOR		
CURRENT RATING	S.C. (kA 1sec)	Product Code	Bus Bar Size/ Phase	Enclosure Height	Product code	Bus Bar Size/ Phase	Enclosure Height
400A	25	SAB 040S1	40X6(1)	95	-	-	-
630A	40	SAB 060S1	60X6(1)	115	SCB 040S1	40X6(1)	95
800A	50	SAB 080S1	80X6(1)	135	SCB 050S1	50X6(1)	105
1000A	50	SAB 100S1	100X6(1)	155	SCB 070S1	70X6(1)	120
1250A	65	SAB 125S1	125X6(1)	180	SCB 100S1	100X6(1)	155
1350A	65	SAB 150S1	150X6(1)	205	-	-	-
1600A	80	SAB 175S1	175X6(1)	230	SCB 125S1	125X6(1)	180
1800A	80	SAB 200S1	200X6(1)	255	SCB 150S1	150X6(1)	205
2000A	80	SAB 230S1	230X6(1)	285	SCB 175S1	175X6(1)	230
2250A	120	SAB 125S2	125X5(2)	360	SCB 200S1	200X6(1)	255
2500A	120	SAB 150S2	150X6(2)	410	SCB 230S1	230X6(1)	285
3200A	120	SAB 175S2	175X6(2)	460	SCB 125S2	125X6(2)	360
3600A	120	SAB 200S2	200X6(2)	510	SCB 150S2	150X6(2)	410
4000A	120	SAB 230S2	230X6(2)	570	SCB 175S2	175X6(2)	460
4500A	120	SAB 175S3	175X6(3)	590	SCB 200S2	200X6(2)	510
5000A	120	SAB 200S3	200X6(3)	765	SCB 230S2	230X6(2)	570
6300A	120	SAB230S3	230X6(3)	855	SCB 175S3	175X6(3)	690

HANDLING GUIDELINES:

To ensure the longevity and performance of your bus duct system, it's crucial to handle it with care and follow these guidelines:

Handle with Care:

Avoid damaging internal components, the enclosure, or its finish by handling the bus duct system gently.

Avoid Rough Handling:

Do not twist, dent, or subject the bus duct to impacts or rough handling that could compromise its integrity.

Do Not Use Bus Bar Ends for Lifting:

Refrain from using bus bar ends for lifting bus duct system sections or fittings to prevent damage.

Proper Storage:

If storing the bus duct system before installation, ensure it's packed securely for protection during this period. Keep the packing intact until sections or fittings are in their final installation location.

Check Weight Capacity:

Verify that the weights of bus duct sections or fittings do not exceed the rated capacity of the handling equipment being used.

Use Platform Dollies:

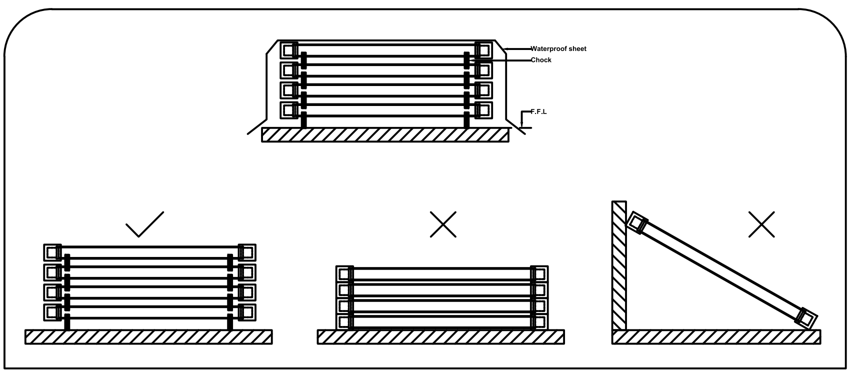
Platform dollies are ideal for moving bus ducts on a single floor level with minimal incline. Ensure the load is balanced carefully.

Consider Forklift Trucks:

Forklift trucks offer a convenient method for handling busduct, especially for hoisting between levels. Maintain load balance carefully.

Utilize Platform Lifts or Elevators:

Manual or power-operated platform lifts or elevators can be advantageous for moving bus ducts between elevations safely and efficiently.



HANDLING GUIDELINES

SUDHIR®
Powering The Future

Follow Us On

BRANCH OFFICES:

ALWAR | AMRITSAR | BADDI | BHATINDA | BHOPAL | BIKANER | FARIDABAD | JALANDHAR | JAMMU | JODHPUR

KARNAL | LUDHIANA | SILVASSA | SRINAGAR | SURAT | UDAIPUR | VADODARA | BENGALURU

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SPL/SANDWICHBRO/SEPT.2024