

AAA SWITCH GEAR

Private Limited

COMPANY PROFILE Approved By Central Power Research Institute (CPRI), Bhopal, India



Panels Brochure





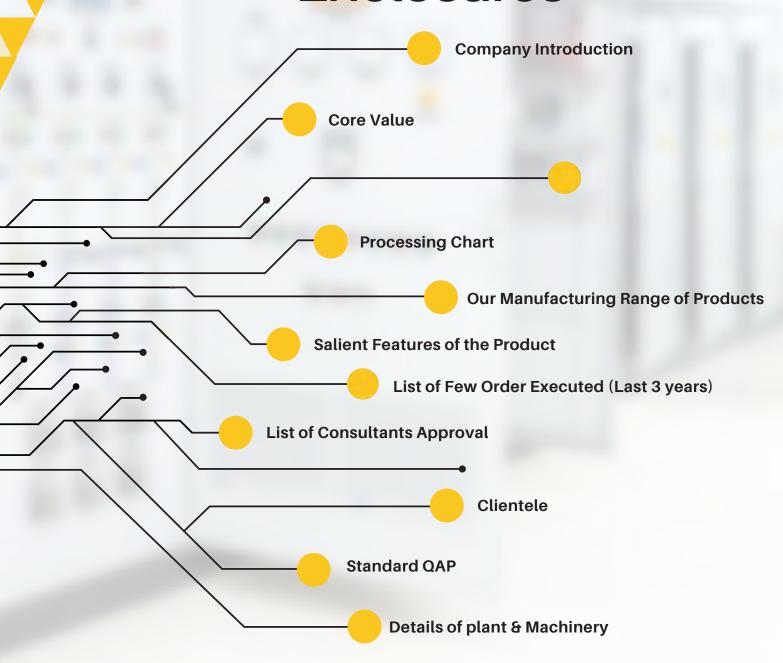


Our target is to produce switchgear of exceptional quality, provide reliable solutions through the manufacture and supply of innovatively designed, cutting edge technology switchgear





Index of Enclosures



ABOUTUS

AAA Switch Gear Private Limited is an ISO 9001:2015 Certified Company involved in Offering Complete Electrical solutions that covers designing, supplying, installation, testing and commissioning of Electrical Projects and Panels. Performing with a commitment to excellence since 2012. The company has established itself as a paradigm of quality and perfection. Our Priority is to gain a thorough understanding of the business requirements of clients and efficiently deal with it.

TEAM

From management that leads by example to technocrats who inspire; from people working on machines to people manning our office, we have put together a cohesive workforce with a unity of purpose and sense of direction, following a common pathway to creating products we are proud of.

MANUFACTURING FACILITY

We have integrated manufacturing activities under one roof. We have a fiber glass moulding unit with mould design and fabrication of composites such as cable trays and raceways with varying fire resistance, chemical resistance and mechanical properties to satisfy varying specifications of each buyer.

DESIGN, RESEARCH & DEVELOPMENT

We offer custom design and development services to our customers for their requirements in cable trays, raceways, injection moulded components, sheet metal fabricated components. Customer centric and dedicated to giving each customer exactly what he needs, we aim to please through excellence.

SAFETY AND ENVIRONMENT CONCERNS

We have OHSAS 18001: 2007 measures in place to ensure occupational health and safety of each person in our company, considering it as a compelling responsibility that contributes to their better performance. At the same time, on a macro level, safety of overall environment is also a guiding principle, reflected in the way we implement manufacturing processes to generate the least amount of greenhouse gases, pollutants and waste.



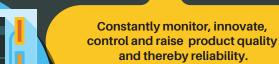
Core Values

Design customized, creative, efficient and cost-effective switch gear systems, engineered specially to cater for customer requirements, Manufacture under stringent quality control.

Acknowledged, consistent quality of products.

Continual improvement through Training, Research, Development, Flexible and open to new ideas and requirements.

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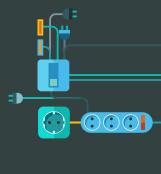
Remain abreast of technological progress and improve efficiency and functionality of products and systems assembled.

Provide technical solution, utilizing decades of experience.

High functional serviceability, economic efficiency, security and ecology compatibility of products.

Turned intentions into meaningful actions that have shown success over years through visionary leadership







Processing chart



Quality with Technolo

Our manufacturing products

e are manufacturer and Supplier for all types of electrical Panels / L.T. Panels / Automation Panels Enclosures etc. Established in 2012 with an aim of providing technically sound and financially viable solutions for wide range of Automation and Machine manufacturing related products.

Starting from the day one we are trying to provide a high-quality panels and products to the customer or end user, as core line of our business is customer satisfaction in terms of our manufacturing range of products. We are trying to supply panels which meets our customers technical specification. We have been in the field of Manufacturing since 2012 and have an ISO 9001-2015, OHSAS 18001-2007 standard established and reputation of being a manufacturer of good quality products.

Our wide range of products are

- 01. Power Control Center (PCC)
- 02. Motor Control Centre (MCC)
- 03. Mains / DG synchronizing and load management
- 04. Automatic Power Factor Correction Panels (APFC)
- 05. Real Time Power Factor Correction (Thyristor based) RTPFC Panels
- 06. AMF Control Panels (DG set)
- 07. Fire Panel
- 08. LMS Panel (Ltg. Panels)
- 09. ATS Panel (Automatic Transfer switch) Mains Generator
- 10. ATS Panel (Mains Mains)
- 11. Manual Transfer Switch Panel
- 12. Generator Control Panel
- 13. Annunciation Panel
- 14. DOL / Star Delta Starter Panel
- 15. Local Distribution Boards (SDBs / MDBs / UMDBs / Ext.Ltg. DBs etc.)
- 16. Feeder Pillars (Outdoor / Indoor)
- 17. Temporary Boards with Plug & Socket (Outdoor / Indoor) upto IP:66 in Sheet Steel enclosures
- 18. Mobile Distribution Boards
- 19. Dedicated Earth Box
- 20. End feed units (ACB Based)
- 21. Adopter Box

LV Switchboards

Power Control Centre

Switchboard assemblies used for low voltage power distribution are mostly called Power Control Centres. These PCC controls, monitor & provide continuous supply to connected loads through breakers. If something goes wrong with the power source or load, the power control centre fit ed with breakers cut down supply to the affected portion and the rest of the system stays healthy.







Motor Control Centre

Switchboard assemblies used for low voltage power distribution having a common power bus and principally containing motor control units are generally called motor control center (MCC). The Motor Control Centre takes care of controlling, monitoring & recording of the power supplied to motors.







LV Switchboards

Local Distribution Board

Switchboard assemblies used for low voltage power distribution that divides an electrical power feed into subsidiary circuits, while providing a protective fuse or circuit breaker for each circuit in a common enclosure.



Feeder Pillars

Switchboard assemblies that provides local isolation to electrical distribution equipment, protecting both the cabling and the transformer from faults. Feeder pillars allow simple and local maintenance to your equipment, reducing site downtime and reducing overall maintenance costs.



LV Switchboards



LV Switchboards

APFC Panels

We manufacture and supply a qualitative range of APFC Panels, that are extensively used in various industries. These automatic power factor control panel (APFC) are designed and developed using advanced techniques and are capable of saving maximum power and energy. Fabricated using high-grade rust proof steel, our range is known for reliability and longer life. These APFC Panel are highly efficient an accurately monitor the reactive power in power systems for saving energy and can alter the system voltage as well as current. These panels are also provided with capacitors along with series reactors to minimize the harmonic current.



APPLICATION AREA

Electrical Installation • Windmills Process Controllers • LT & HT Factories • Micro Process





DG Set AMF (Auto Mains Failure) Panel

utomatic Mains Failure panels are installed as part of a automatic generator installation. The AMF is connected to the generator set to power control the operational functions. Once a power cut is detected, it automatically signals the generator to start and support the load. It will also start the generator if it detects that the mains power fluctuates. These are out of preset tolerances, instances for e.g., Power dips Once the generator is ready to accept the load, the motorized switches or contactors within the AMF Panel will switch the building load from mains supply to generator. This all happens automatically.



Fire Panel

Fire Panel is the controlling component of a fire alarm system. The Panel receives information from devices designed to detect and report fires, monitors their operational integrity and provides for automatic control of equipment, and transmission of information necessary to prepare the facility for fire based on a predetermined sequence. The panel may also supply electrical energy to operate any associated initiating device, notification appliance, control, transmitter or relay.



LMS (Lighting Management System)

Product description

ouch panel for controlling the LMS WW DALF Interface IRD200 control unit. With integrated, battery buffered real time clock for control of a time-based (circadian) sequence of light color and brightness, as well as touch sensitive buttons for the manual setting of light and the flexible design of upto 4 lights scenes. Parallel switching of upto 3 operating panels. Demo mode with shortened circadian sequence. Function setting of the Push button or motion sensor and activation of the relay output on the IRD200 for avoidance of standby losses.



Some of our Enclosures with IP: 54 & 55 and IP: 65 & 66

Product description

ATS Enclosure with IP:55 (Indoor)





STAR - DELTA CONTROL **PANEL**



Temporary Board (outdoor type) with Plug & Socket IP:66







9 Tank Pretreatment Process

The company follows 9 tank processes for all its steel components. This process makes the aesthetics and strength of steel components long lasting, with varying weather conditions (internal or external). Listed below are the various processes followed.

1.Pre Degreasing 2.Degrasing 3.Water Rinse 4.De Rusting 5.Water Rinse 6.Activation 7.Phosphate 8.Water Rinse 9. Passivation











Salient features

CPRI / ERDA tested for 50 KA for 1 second upto 4000 A rating. Pre-Treatment with 9-Tank process. Enclosures manufactured of 2.0/1.6 mm CRCA sheet. Non Hygroscopic SMC DMC supports. Fully bolted standardized design fabricated with CNC machines. Standardrized compartments for Busbar Chamber, Cables alloy & Feeders. Panel construction with all possible forms of separation like-form 2/3a/3b/4a/4b. 24 hours integrated customer supports and prompt offer sales service with repeated orders from customers and consultant. CPRI / ERDA certified panels for degree of protection of IP42, IP52, IP54, IP55, & IP64, as per IEC 60529:2001. 200% back-up generator capacity.

List of Few Order Executed (Last 3 years)

SI. No.	Client Name	Project	Panels Supplied	Year
1.	Supreme hospital	Charmwood Village, Surajkund Faridabad	DG Synchronyzing Panel, L.T Panel, Distribution Board, UPS I/P & O/P Panels	2017-18
2.	Shardul Amarchand Mangaldas (SAMCO)	Okhla Phase III, New delhi	L.T Panels , SDBS,FDBS Panels	2018-19
3.	PVR Limited	Mumbai/Pune/Mohali/Delhi/Delhi/U.P/ Gurgaon/Chandigarh	L.T Panels , SDBS,FDBS Panels AHU,VFD Drive Panels	2018-19
4.	Syscom Corporation Ltd.	Nsez Noida Phase III (L-Block)	1600KVATIF,H.T Panel ,H.T Panels SDB'S & PDB's	2018-19
5.	Tata consultancy services	Pune	Main L.T Panels, VFD Panels , SDB's Panels	2019-20
6.	Tata consultancy services	Olympus Mumbai	L.T Panels	2019-20
7.	Accenture Delhi	New Delhi	Main L.T Panels,UPS Panels	2018-19
8.	Ambuja Cement	Rajasthan	Main L.T Panels , PCC Panels , PLC Panel, Ups Panels Etc	2018-19
9.	Indotag Solution Lts	Kasna, Greater Noida	MDB, SDB, UPS Input Panels	2018-19
10.	Nutech Contracts Pvt Ltd	Qualcomm Noida	L.T Panels , MDB's / SDB's Panels ,UPS Panels	2019-20
11.	Aarchee Contracts Pvt. Ltd.	GE Power, Noida	L.T Panels	2018-19
12.	Nutech Contracts Pvt Ltd	Sify Data Centre Noida	MDB's / SDB's Panels , UPS Panels, L.T Panels	2019
13.	M/S EXL Noida(Illuminar	M/S EXL Noida	L&P Panel, MDB Server, UPS Panels, PDU's, AC Panel, SDB's , Server Panels , Lighnting Panels Engineering Pvt ltd)	2019-20
14.	Chetu India Pvt. Ltd.	Chetu Noida	Servo By pass + AMF Cum Capacitor Panel	2019-20
15.	Blue Angel Global School	Blue Angel School Surajkund	Main L.T Panels	2017-18
16	Wipro Onyx	Gurgaon Cherry hills Interiors Pvt ltd	L.T SB Panels, Lightning Panels, MBD'S/PDB'S	2020
17	Iron Mountain	Guwahati/Bilaspur Haryana / Lucknow	L.T Panels, Capacitor Panels, SBD'S / PDB'S	2018-20
18	M/S Cairn Oil & Gas Vedanta Ltd.	Gurgaon	Critical Load Panels, UPS MDB, Server SDB, PDU's, Server MDB Panels	2019-20
19.	Hero Motor Corp.	Gurgaon	Main L.T Panels , UPS ATS Panels , UPS Input Panels , UPS Output Panel, Server UPS Panels	2018-19
20.	IOCL (Nutech Contracts Pvt Ltd)	IOCL Gurgaon	L.T Panels	2018-19
21.	Takenaka India Pvt Ltd	Yokohama Rajasthan	Main Panels, PLC-PDB Chillar, Pump Panels Dryer Panels	2017-18
22.	PWC	Kolkata, Gurgaon	Main L.Tb Panels, MDB, SDB, UPS I/P & O/P Panels	2017-18
23.	Ciena Gurgaon (Nutech Contracts Pvt ltd)	Ciena GGN	Floor Panels, Distribution Panels & Capacitor Panels	2018-19
24.	Ericsson	Noida , Lucknow , Mohali, kolkata	Main L.T Panels , MBD , SDB , UPS Panels	2018-19
25.	Royal Club(Eros Garden)	Eros garden Surajkund	L.T Panels, Server MBDs/SDBs,PDUs, UPS Panels	2018-19
26.	Hotel Leh Laddakh(ABDUZ)	Laddakh	Main L.T PLC Synchronizing Panels	208-19
27.	Woori Bank	Mumbai, Gurgaon	Main Panel	217-18
28.	HDFC Bank	Jaipur	Main L.T Panel , Floor Panels , Ups Panels	2020
29.	Guardian Tikri	Noida GGN	Main Panel , UPS I/P & O/P Panels	2017-18
30.	ONGC	Vadodara	L.T Panels	2018-19
31.	Popular Card	Nsez noida	L.T Panels	2018-19

List of Consultants Approval

1.)	M/s Electro Consultant	
2.)	M/s Design Plus Consultant	
3.)	M/s Lakshay Consultant	
4.)	M/s Darshika Consultant P. Ltd.	
5.)	M/s Dhruva Engineering Consultant	
6.)	M/s Adroit Consultants	
7.)	M/s Ampower Consultancy Services	
8.)	M/s ECMS India Pvt. Ltd.	
9.)	M/s IBS Gulf Design Ltd	
10.)	M/S Arth Design Build India Pvt. Ltd.	
11.)	M/s Jay Consultant Engineers	
12.)	M/s Semac Consultants Pvt. Ltd.	
13.)	M/s Space Matrix Design Consultants Pvt. Ltd	
14.)	M/s AON Design Consultants	
15.)	M/s Lead Consultants and Services I Pvt. Ltd.	

Clientele





























































		MANUFACTURER'S NAME & ADDRESS	DRESS		QUAL	QUALITY ASSURANCE PLAN	AN		Q.P. NO AAA/FEB./01	\/FEB./01	
		M/S AAA SWITCH GEAR (P) LTD.			Project :- EXL, NOIDA			DATE:			
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		d. Waivyness	Major	Visual				2	^		
		e. Surface Finish	Major	Visual					Ь		
		a. Make	Major	Visual					^		
		b. Cross Section	Major	Measurement				Inspection Record	Ь		
2	Bus Bar	c. Surface Finish	Major	Visual	Sampling			JL/	Ь		
		d. Conductivity	Major	Measurement				2	Ь		
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		b. Type	Major	Visual					^		
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ю	MCB/ELCB/RCBO	d. No. of Poles	Major	Visual	100%			Inspection Record	۸		
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		f. Manually On/Off	Major	Operation					Ь		
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		c. Color	Major	Visual				7	>			
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n	sivic / Divic supports	c. Surface Finish	Major	Visual	Sampinis			Record / TC	>			
		d. HV Test	Major	Electrical					d			
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		e. NO/NC Contacts	Major	Visual					۸			
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		a. Sheet Thickness	Major	Measurement					Ь		_	
		b. Cut out sizes	Major	Measurement					Ь			
		c. Diagonal Conformity	Major	Measurement					Ь			
		d. Cut out finish	Major	Visual					Ь			
+	Mechanical Section	e. Surface Finish	Major	Visual	100%	Approved Drawing	Approved	Inspection Record	А			
		f. Over all dimension	Major	Measurement			Drawing		Ь			
		g. Arrangement for hinges	Major	Visual					Ь			
		h. Provision for door earthing	Major	Visual					Ь			
		i. Deburring	Major	Visual					Ь			
		a. Paint Shade	Major	Visual					Ь			
		b. Paint Thickness	Major	Measurement					Ь			
		c. Adhesion Test	Major	Physical					Ь			
2	Paint Section	d. Flow of Paint (must not exist)	Major	Visual	100%	Approved Drawing	Approved Drawing	Inspection Record	۵			
		e. Surface Finish	Major	Visual				ı	Ь			
		f. Free from scratches	Major	Visual					Ь			
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		a. Bill of Material	Major	Visual					Ь	M	W	
		b. Overall Dimension	Major	Measurement					А	×	M	
		c. Paint Shade	Major	Visual					Ь	Μ	W	
		d. Paint Thickness	Major	Measurement					Ь	W	W	
		e. Paint Finish	Major	Visual					А	M	M	
		f. Adhesion Test	Major	Physical					Ь	W	W	
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4		h. Busbar sizes for Phase & Neutral	Major	Measurement	000T	Appioved Diawing		וואסברוסון אברסומ	Ь	W	W	
		i. Earth Busbar Size	Major	Measurement					А	M	M	
		j. Earthing symbols on ends	Major	Visual					А	M	M	
		K. Clamp for supporting customer cable in cable alley	Major	Visual					۵	*	*	
		I. Door Setting	Major	Visual					Ь	W	W	
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FINAL INSPECTION	NOIL											
		m. Door Locks	Major	Visual					Ь	*	M	
		n. Tigtness for Busbars	Major	Test					Ь	*	Μ	
		o. Nut bolts used of same size	Major	Visual					Ь	Μ	Μ	
		p. Wiring sizes as per rating of the component	Major	Visual					Ь	۸	Α	
		q. Description of inscription	1 - 4 4						ď			
		plates as per drg.	Major	Visual					۵.	>	>	
		r. Danger Stickers	Major	Visual			70000		Ь	*	*	
2	Final Inspection	s. Shrouding of Live Terminals	Major	Visual	100%	Approved Drawing	Approved	Inspection Record	Ь	*	*	
		t. Lifting Hook	Major	Visual			2 2 3 3 4 3 5 4 5 7 7		Ь	>	*	
		u. Electrical testing as per schematic/single Line Diagram	Major						Ь			
			,	Test						M	W	
		v. IR Test	Major	Test					Ь	*	W	
		w. HV Test	Major	Test					Ь	Α	Μ	
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Details of plant & Machinery

SN	Machin Name	Make	Qty
1	Shearing Machine 3000x5mm	Hindustan Hydraulics	1 No.
2	Shearing Machine 2500 x 3mm	Haco	1 No.
3	Brake Press CNC 3000x100 Ton	Hindustan Hydraulics	1 No.
4	Brake Press CNC 2500x75 Ton	Haco	1 No.
5	Perforation Machin 1270mm	Jasco	1 No.
6	Busbar Bending / Cutting / Punching Machin	Anil Engineering	1 No.
7	Nibbling Machine 4 mm Capacity	Anil Engineering	1 No.
8	Hydraulic Angle + Flat Cutting Machine	Anil Engineering	1 No.
9	1" Pillar type Drill Machine 1 HP	Bosch	5 No.
10	1/2" Pillar Type Drill Machine ½HP	Bosch	5 No.
11	300 Amps. Welding Set	Electra	3 No.
12	400 Amps. Welding Set	Electra	2 No.
13	Mig Welding Machine 250/400Amp.	Panasonic	5 No.
14	Bench Grinder 1 HP	Bosch	2 No.
15	HS 7 Angle Grinder	Bosch	3 No.
16	HS 9 Angle Grinder	Bosch	2 No.
17	HS & Sander Grinder	Bosch	4 No.
18	Jigsaw Machine	Bosch	1 No.
19	6 mm Portable Drill Machine	Bosch	4 No.
20	12 mm Portable Drill Machine	Bosch	4 No.
21	25 mm Portable Drill Machine	Bosch	1 No.
22	4 mm Portable Grinder Machine	Bosch	2 No.
23	125 mm Portable Angle Grinder Machine	Bosch	1 No.
24	Hand Press no.6	Bosch	3 No.
25	50 Ton Power Press	Anil Engineering	5 No.
26	30 Ton Power Press 5 HP	Anil Engineering	8 No.
27	10 Ton Power Press 1 HP	Anil Engineering	1 No.
28	Spot Welding Machine	Electra	1 No.
29	Ferrule Printer		1 No.
30	Label Printer		2 No.
31	DG Set 125 KVA	Sudhir Genset	1 Set
32	Powder Coating plant	Umashankar Engineering	1 Set





THANK YOU



AAA SWITCH GEAR PVT. LTD.

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