

COMPANY PROFILE



Power Control Electro Systems Private Limited

Plot No.:- E- 32, M. I. D. C., Kupwad,
Sangli - 416 436
Maharashtra, India.

Ph. No.:- + 91 233 264 5630, Fax: - + 91 233 264 5640

Email: - sales@pcesystems.in

Web.: - www.pcesystems.in

TABLE OF CONTENTS

- 1) *Introduction.*
- 2) *Product range.*
- 3) *Contact details.*
- 4) *Commercial information.*
- 5) *Factory setup.*
- 6) *Manufacturing facilities.*
- 7) *Testing and measuring equipments.*
- 8) *ISO 9001: 2008 Certificate.*
- 9) *Quality policy.*
- 10) *Quality assurance plan.*
- 11) *List of type test reports for products.*
- 12) *List of vendor registration approvals.*
- 13) *List of valued customers to whom we have worked.*
- 14) *Our strength and merits.*
- 15) *Product catalogue.*

-----#####-----



1. INTRODUCTION

We would like to introduce ourselves as a leading manufacturer of Medium Voltage switchgear products in Western Maharashtra right from 3.3 kV to 36 kV. Power Control Electro Systems Private Limited is a pioneer in the field of H. T. switchgear manufacturing in India having a market presence for the last Seven years. Power Control Electro Systems Private Limited is geared up to cater the needs of the current market with high-tech products.

The factory is complete with facilities for Research and Development, Design, Manufacture, Assembly, Testing and Dispatch of medium voltage switchgear products right from 3.3 kV to 36 kV voltage class. Our strong Research and Development Team is capable to cater the different needs of the customers as per their application leads to create new, innovative and quality products to address the diverse needs of switchgear industry.

Power Control Electro Systems Private Limited is located at Plot No.:- E - 32, M.I.D.C., Kupwad, Sangli, Maharashtra and manufactures switchgear products from its facility admeasuring spanning over 17,500 Sq. Ft. area. Power Control Electro Systems Private Limited is one of the few companies in India to start off its operation with ISO 9001: 2008 certifications.

Product Range of the company comprises of On / Off Load Isolators, Load Break Switches, Vacuum Circuit Breakers, Porcelain Clad V. C. B., Ring Main Units, Control & Relay panels, Gas Insulated (SF 6) Switchgear and Unitized / Compact Substations in both Indoor & Outdoor type versions.

Our products are completely Type Tested at following N.A.B.L. accredited laboratories:

- ✓ Central Power Research Institute (CPRI), Bangalore.
- ✓ Central Power Research Institute (CPRI), Bhopal.
- ✓ Korea Electro technology Research Institute (KERI), South Korea.
- ✓ Electrical Research & Development Association (ERDA), Vadodara.

Our products are widely accepted and in service across industrial sectors such as Power, Cement, Steel, Hospitals, Irrigation Projects, Heavy Engineering, Construction, Sugar, Mining, Textile, IT Park, Shopping Mall, Commercial complex, Paper and various utilities. We have an excellent track record of supplying our products to various Electricity Boards, Government and Semi-Government Organizations like M.S.E.D.C.L., M.J.P. and P.W.D. etc.

Our products are optimized for total quality and onsite reliability. Our specialization is also in manufacturing both standard and to suit the requirements of our clients. With a professional management, well-qualified and trained technical and production staff and experienced customer Service Engineers for customer support in the field.

An important point we would like to highlight is our customer service. Our manufacturing base and central customer service team is located at our factory works in Maharashtra and in the unlikely event of any problem we can have a Service Engineer at the site within a matter of 36 - 48 hours. Whether it is commissioning assistance or post installation service or periodic routine maintenance we will be able to send our service personnel immediately. This is certainly a big advantage to the customer as especially with H. T. equipment timely customer service can reduce plant downtime and ensure continuous production.

Power Control Electro Systems Private Limited is uniquely positioned to cop up all your switchgear needs today and tomorrow.



2. PRODUCT RANGE

The following listed products are manufactured by Power Control Electro Systems Private Limited in both Indoor and Outdoor type version.

- | | | |
|-----|--|------------------------|
| 1. | On Load Isolators (Air break type) - | 11 kV / 22 kV. |
| 2. | Off Load Isolators (Air break type) - | 11 kV / 22 kV. |
| 3. | Load Break Switches (Air break type) - | 11 kV / 22 kV. |
| 4. | Vacuum Load Break Switches - | 11 kV / 22 kV / 33 kV. |
| 5. | Vacuum Circuit Breakers - | 11 kV / 22 kV / 33 kV. |
| 6. | Porcelain Clad Vacuum Circuit Breaker- | 11 kV / 22 kV / 33 kV. |
| 7. | Control and Relay panel - | 11 kV / 22 kV / 33 kV. |
| 8. | Ring Main Units - | 11 kV / 22 kV / 33 kV. |
| 9. | Gas Insulated (SF 6) Load Break Switches - | 11 kV / 22 kV. |
| 10. | Unitized / Compact Sub Stations.- | 11 kV / 22 kV / 33 kV. |

-----#####-----



3. CONTACT DETAILS

Works Address : Plot No.:- E - 32,
M.I.D.C, Kupwad.
Dist:- Sangli, Tal.:- Miraj
Maharashtra (INDIA)
Pin - 416 436.

Telephone : + 91-233-2645630, 2645640

Tele-Fax : + 91-233-2645640

Web site : www.pcesystems.in

Email : sales@pcesystems.in
admin@pcesystems.in

Year of Establishment : 2006.

Contact Persons : **Mr. Ajay M. Jadhav.**
(Managing Director)

Mr. Sanjay M. Jadhav.
(Director)

Mr. Chandrasekhar B. Gole.
(Technical Director)

Mr. Veejhay B. Limaaye.
(Technical Director)

-----#####-----



4. COMMERCIAL INFORMATION

Name of the Organization. : Power Control Electro Systems Private Limited.

Factory Address. : Plot No.:- E - 32,
M.I.D.C, Kupwad.
Dist:- Sangli, Tal.:- Miraj
Maharashtra (INDIA)
Pin - 416 436.

VAT TIN No. : 27240576190 V Dtd. 29/11/2006.

CST TIN No. : 27240576190 C Dtd. 29/11/2006.

PAN No. : AADCP9435A.

Excise Registration No. : AADCP9435AXM001.
Range - Miraj II, A - 892,
Miraj - Sangli Road, Miraj.
Division - Sangli.

Service Tax No. : AADCP9435AST001.

S.S.I. Registration No. : 27 035 12 00539 Dated:- 09/01/2008.

Factory Licence No. : 074663.

Account Number. : 911030016530445.

Bankers Name. : AXIS Bank Limited.
Ground Floor, DSP Plaza, City Servey No. 32/A,
Ambarai Road, Azad Chowk, Sangli.
Branch : Sangli

-----#####-----



5. FACTORY SETUP

Total Land	:	3000 Sq. Mtrs (30,800 Sq. Ft)
Directors Office	:	44 sq. mtrs.
Marketing & Design office	:	44 sq. mtrs.
Account & Purchase office	:	27.14 sq. mtrs.
Switch Assembly Shop	:	209 sq. mtrs.
Store No 1	:	26.3 sq. mtrs.
Store No 2	:	70 sq. mtrs.
LBS Assembly shop	:	490 sq. mtrs.
VCB Assembly shop	:	700 sq. mtrs.
Machine shop	:	190 sq. mtrs.

-----#####-----



6. MANUFACTURING FACILITIES

Sr. No.	Name Of Machine	Make	Capacity	Rating	Quantity
1	Air Compressor with Air tank	Atlas Copco	18.5 kW/ 7.5 Bar	415V/AC	1 No.
2	D. G. Set	Kirloskar GOEL	45 kVA	415V/AC	1 No.
3	Lathe Machine	Venus		415V/AC	1 No.
4	Lathe Machine	Sharad Engg. Works		415V/AC	1 No.
5	Milling Machine	Bhagson; Bimpex		415V/AC	1 No.
6	Shaping Machine	Omega		415V/AC	1 No.
7	E.O.T. Crane	TACKLERS Techno Ind.	5 Metric Ton	415V/AC	1 No.
8	Overhead chain conveyor hoist	Pebonier	500 Kg		1 No.
9	Drillings Machine (Radial)	Satyabhumi M/c tools	25mm Dia.	415V/AC	1 No.
10	Drillings Machine (Pedestal)	Siddhapura Engg. Works	25mm Dia	415V/AC	1 No.
11	Hand-Drill Machines	Electrex	10 MM/0.5 KW	230V/AC	2 No.
12	Hand Sander	KPT	Ø 7" / 1.1 KW	230V/AC	1 No.
13	Bend Saw Machine	LAXMAN	175 MM/0.5 KW	415V/AC	1 No.
14	Din rail cutting machine	Darshan Ind.		-	1 No.
15	Pallet Truck, Hydraulic	Premier	2000 KG		2 No.
16	Pneumatic Screwdrivers				1 No.
17	Pneumatic Sander				2 No.
18	Jig Saw	Eelctrex / Dewalt	0.74 KW	230V/AC	2 No.
19	Bench Vice	India			2 No.
20	Portable Blower	Rohit		230V/AC	1 No.
21	Air Heater	Dewalt	0.8 KW	230V/AC	2 No.
22	Bench Grinder	Rajlaxmi	0.75 KW	415V/AC	1 No.
23	Bus bar Bending Machine	Goldrich Make			2 No.
24	Bench Sander	Ambika Make		415V/AC	1 No.
25	MIG- MAG welding Machine	ARC tech	3.37 KW	415V/AC	1 No.
26	Welding Machine ARC Type	KEG		230V/AC	1 No.
27	Battery and Battery Charger	Alfa / Veejayashree	100 Ah	30 V/DC	1 No.
28	D. C. Power Pack	Neutech/Allan	110/30 VDC	230V/AC	1 No.
29	Electric Weighing Machine	Electro India	500 kg	230V/AC	1 No.
30	Electric Weighing Machine	Electro India	30 kg	230V/AC	1 No.
31	Insulation Tester Megger	Kyoritsu	2000000 Ohm	5 KV	1 No.
32	HV Tester	NTPL	40 KV; 100 mA	415V/AC	1 No.
33	HV Testing Kit, Transformer	Cortina Electriks	75KV; 50 Hz	415V/AC	1 No.
34	Auto scan - T	Scope TCV		230V/AC	1 No.
35	Secondary Injection kit	J. S. Electricals	Multi	230V/AC	1 No.
36	Mili - Volt drop tester	J. S. Electricals	100 V 6 VDC	230V/AC	1 No.
37	Breaker Testing Timer	J. S. Electricals	9999 mSec.	230V/AC	1 No.
38	Contact Resistance/ Micro Ohm Meter	Scope TCV	CRM 100C	230V/AC	1 No.



Sr. No.	Name Of Machine	Make	Capacity	Rating	Quantity
39	Digital Vernier	Yamayo Bliss	0-150 mm		1 No.
40	Vernier Caliper	Yamayo Bliss	0-200/150		2 No.
41	Vernier Caliper	Yamayo Bliss	0-300		1 No.
42	Micro Meter	Mittutoyo	0-25 mm		1 No.
43	Micro Meter	Mittutoyo	25-50 mm		1 No.
44	Vernier Height Gauge	Aerospace	0-600		1 No.
45	Dial Gauge	Baker	0-0.1 to 10. mm		1 No.
46	Digital Clamp Meter / Tong tester	MECO	Multi AC Dc		2 No.
47	Digital Clamp Meter / Tong tester	Motwane	Multi AC Dc		2 No.
48	Digital Multi Meter	Rishabh	Multi AC Dc		1 No.
49	Digital Multi Meter	MECO	Multi AC Dc		1 No.
50	UPS Inverter Systems for backup	APC	3 kVA	230V/AC	2 No.
51	Xerox Machine	Toshiba		230V/AC	2 No.
52	Desktop Computers and Laptops	Lenovo/HP/Dell		230V/AC	12 No.

-----#####-----



7. TESTING AND MEASURING EQUIPMENTS

Sr. No.	Name of test	Details of testing facilities available
1	Test of raw materials	
	a). Dimensional Conformity, Alignment, Welding Quality Finishing Appearance.	1) Magnetic Power Thickness Meter
	b). Dimensional Conformity, of Bus bars	2) Impact Tester
	c). Physically checking of Electricals Components	3) Scratch Tester
2	Routine tests	
	a). Relay testing	a). Secondary injection kit for relay testing
	b). Breaker testing	b). Breaker timer testing equipment
	c). Timings of No. of bounces	c). Scope Vacuum Circuit Breaker Analyzer
	d). High voltage testing.	d). HV Testing Kit - 40KV
	e). High voltage testing.	e). HV Testing Kit - 90KV
	f). Measuring Insulation resistance	f). Insulation Tester (Megger) - 5KV
	g). Current measurement	g). Tong Tester
	h). Endurance testing for Scope machine	h). DC Power pack for Scope Testing machine
	i). Measuring Current, Voltage parameters	i). Make Break Testing Kit
	j). Measuring contact Resistance.	j). Digital Multimeter
		k). Milli Volt Drop Test Kit
3	Acceptance tests	
	a). Relay testing	a). Secondary injection kit for relay testing
	b). Breaker testing	b). Breaker timer testing equipment
	c). Timings of No. of bounces	c). Scope Vacuum Circuit Breaker Analyzer
	d). High voltage testing.	d). HV Testing Kit - 40KV
	e). High voltage testing.	e). HV Testing Kit - 90KV
	f). Measuring Insulation resistance	f). Insulation Tester (Megger) - 5KV
	g). Current measurement	g). Tong Tester
	h). Endurance testing for Scope machine	h). DC Power pack for Scope Testing machine
	i). Measuring Current, Voltage parameters	i). Make Break Testing Kit
j). Measuring contact Resistance.	j). Digital Multimeter	
	k). Milli Volt Drop Test Kit	
4	Type tests	
	All type tests carried out at NABL Accredited Approved labs Like C.P.R.I. Benglore, E.R.D.A. Vadodara, and K.E.R.I. South Korea.	



8. ISO 9001 : 2008 CERTIFICATION

Certificate

Standard **ISO 9001:2008**

Certificate Registr. No. **85 100 001 7780**

TÜV Rheinland India Pvt. Ltd.:

Certificate Holder: **Power Control Electro Systems Pvt. Ltd.**

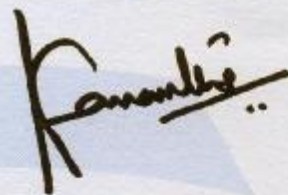
Plot No. E - 32, MIDC Kupwad Block,
Sangli - 416 436, Maharashtra, India

Scope: **Design, Manufacture and Assembly of High Voltage & Medium Voltage Switchgear & Panels**

An audit was performed, Report No. 07780. Proof has been furnished that the requirements according to ISO 9001:2008 are fulfilled.

The due date for all future audits is 24-02 (dd.mm).

Validity: The certificate is valid from **2010-09-14 until 2013-06-04**.
First Certification 2007



2010-10-04

The Certification Body of
TÜV Rheinland India Pvt. Ltd.

The validity of this certificate is subject to timely completion of Surveillance audits as agreed

in the Contract. The Validity of the Certificate can be verified under www.tuv.com with the Identification No. 9105041726

1003343000000

www.tuv.com

 **TÜVRheinland®**
Precisely Right.



9. QUALITY POLICY



Power Control Electro Systems Pvt.Ltd.

Quality Policy

We at Power Control Electro Systems Private Limited (PCE Systems) are committed to manufacture high Quality and safe HT Switchgear products by adhering to standard manufacturing practices, continual improvement in Quality Management System, using reliable components from valuable Suppliers & keeping up with latest developments in Switchgear Technology in our endeavor to completely satisfy our Customers, Business Partners and Stake Holders.

A. M. Jadhav
Managing Director

1st December 2012
Sangli

Quality Objective

- Reduce rejection
- Reduce rework
- Reduce customer complaint
- Enhance product maintainability
- On time delivery





10. QUALITY ASSURANCE PLAN



Quality Assurance Plan

Doc No.	PCES/QP/01
Rev. No.	02
Date	29/11/2010
Page	1 of 5

LEGENDS

A) Agency

1. Test Certificate to be reviewed by Q.A.D.
2. Physical check to be performed by Q.A.D./ Stores.
3. Test to be performed by Q.A.D.
4. Tests to be performed / TC to be submitted by supplier / Manufacturer of raw materials and equipments.
5. Test / Check to be witnessed / Waived by PCE.
6. Test / Check to be witnessed / Waived by Customer.
7. Test / Check to be witnessed / Waived by Consultants.
8. Test performed / Documents reviewed by Q.A.D.
9. Test / Check to be witnessed / Waived by Third party Inspection Agency (TPIA)

B) Type Of Check

- CR** - Critical.
MA - Major.
MI - Minor
CHP - Check Point next stage of manufacturing to be started only after the hold point is cleared by QAD.

C) Others.

- PO.** - Purchase order on our vendor / Supplier.
MIR - Material inward register.
QAR - Internal Quality Report.
QAD - Quality Assurance Department.
TC - Test Certificate submitted by Supplier / Manufacturer.
DRG - Approved Drawings.



Quality Assurance Plan

Doc No.	PCES/QP/01
Rev. No.	02
Date	29/11/2010
Page	2 of 5

1. RAW MATERIAL / INWARD MATERIAL.

1.1 FABRICATED ENCLOSURE AND ITS ACCESSORIES								
Sr. No	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	FORMAT / RECORD	AGENCY
01	Dimensional Conformity, Alignment, Welding Quality Finishing Appearance.	CR	Verification of Test Certificate	100 %	Test Certificate /Drawing.	Tolerance mentioned in Drawing	GRN	2/8
02	Quantity	MA	Quantity Measurement	100 %	P.O. / Challan	No shortage as per P.O. qty.	GRN	2
1.2. BUS BAR (COPPER & ALUMINUM).								
01	Dimensional Conformity (thickness / Width)	MA	Measurement	10 %	P.O. / Challan	± 5 %	QAR (GRN)	2 / 8
02	Conductivity	MA	TC	Batch wise	-----	Conductivity 50% for Aluminum and 99.9% for Copper	Test certificate submitted by supplier	8
03	Bending Test	CR	Bending	Sample	-----	Should not CRACK	QAR (GRN)	2 / 8
04	Quantity	CR	Weight	100%	P.O. / Challan	± 1%	GRN	2 / 8
1.3. M. S. ALLOY STEEL AND PLASTIC								
01	Dimensional Conformity (Thickness / width)M.S.	CR	Measurement	Sample	P.O. / Challan	Measurement	QAR (GRN)	2 / 8
02	Dimensional Conformity (Thickness / width) Alloy Steel	CR	Measurement / TC	Sample	P.O. / Challan/ TC	Chemical composition	QAR (GRN)	2 / 8
03	Dimensional Conformity Plastic	CR	Measurement	Sampling plan	P.O. / Challan/ TC	Tolerance mentioned in drawings	QAR (GRN)	2 / 8



Quality Assurance Plan

Doc No.	PCES/QP/01
Rev. No.	02
Date	29/11/2010
Page	3 of 5

1.4. ELECTRICAL COMPONENTS								
01	Dimensional Conformity (Thickness / width)M.S.	CR	Measurement	Sample	T.C. / Manual	Stamp of Manufacturer	Test certificate submitted by manufacturer	2 / 8
02	Rating : Current, Voltage, No of pole, duty and fault current	CR	Visual	Sample	P.O. / DRG	P.O. / DRG	GRN	8
1.5. SAMPLING PLAN								
01	Sample lot	CR	Measurement	Sampling plan	P.O. / DRG	P.O. / DRG	GRN	2
1.5. INSULATOR								
Sr. No	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	FORMAT / RECORD	AGENCY
01	Dimensional Conformity.	MA	Measurement	25%	P.O. / DRG	Tolerance mentioned in Drawing	GRN	2
02	Rating Check	MA	Verification of Test Certificate	100%	T.C.	Norms mentioned in P.O.	GRN	2/8
1.2 MECHANISM COMPONENTS / ACCESSORIES.								
01	Dimensional Conformity.	MA	Measurement	10%	Test Certificate /Drawing	Tolerance mentioned in Drawing	QAR / GRN	2/8
02	Surface appearance (Plated Components)	CR	Visual inspection	10%	Test Certificate /Drawing	Standard engineering Practice/ Free from Black patches etc.	QAR / GRN	2/8
1.3 Vacuum Interrupter								
01	Rating / Catalogue Number	MA	Verification of Test Certificate	100%	T.C. / Manual.	T.C. / Manual.	GRN	2/8



Quality Assurance Plan

Doc No.	PCES/QP/01
Rev. No.	02
Date	29/11/2010
Page	4 of 5

2. INPROCESS INSPECTION.

Sr. No	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	FORMAT / RECORD	AGENCY
<u>2.4 ASSEMBLY (Electrical Component assembly, Layout Mounting Arrangement and Clearance)</u>								
01	Dimensional Conformity / Mounting / Layout of Busbars and components / Rigidity / tightness / Correctness / Accessibility to various parts, Clearance / Creeping distance	MA	Physical Verification	100%	DRG / Std Engg Practice	DRG / Std Engg Practice	QAR	8
02	BOQ	CR	Visual	100%	DRG	DRG	QAR	8 / CHP
03	Wiring	CR	Physical	100%	DRG / Std Engg	DRG / Std Engg	QAR	8
04	Busbar Phase Sequence	CR	Visual	100%	DRG	DRG	QAR	8

3. FINAL INSPECTION / TESTING

<u>3.1 FINAL INSPECTION.</u>								
01	Dimensional Conformity	MA	Measurement	Random	DRG	DRG	QAR	2/5/6/7/8/9
02	Components, Busbar terminals name plates and BOQ	MA	Physical Verification	100%	DRG	DRG	QAR	2/5/6/7/8/9
03	Terminal Arrangement, Bus bar supports, Tightness, Clearance, Completeness of wiring, Continuity of circuit & earthing	MA	Physical Verification	100%	DRG / Std Engg Practice	DRG / Std Engg Practice	QAR	2/5/6/7/8/9/ CHP
04	Cleanliness of product	CR	Physical Verification	100%	Std Practice	Free from dust, Wire scraps etc.	QAR	2



Quality Assurance Plan

Doc No.	PCES/QP/01
Rev. No.	02
Date	29/11/2010
Page	5 of 5

4.1 TESTING								
Sr. No	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	FORMAT / RECORD	AGENCY
04	Mechanical operational tests for Aux devices etc.	MA	Physical Verification	100%	Std Engg Practice	Std Engg Practice	QAR	8
05	Operational Tests / Checking for inter locking / Safety interlocks	MA	Tests	100%	DRG / Std Engg Practice	DRG Std Engg Practice	QAR	2/5/6/7/8/9 / CHP
06	Meggar Test	CR	Tests	100%	IS 9920	1000 m Ohms & Above	QAR	2/5/6/7/8/9 / CHP
07	HV Test	CR	Tests	100%	IS 9920	Device Should withstand Of 11 Kv : for 28 Kv. Of 22 Kv : for 50 Kv. Of 33 Kv : for 70 Kv	QAR	2/5/6/7/8/9 / CHP
08	Type Testing for 1. Short Circuit. 2. Temperature rise. 3. Power frequency 4. Lightning Impulse.	MA	Tests carried out at Approved Third party inspection agency CPRI	One Job	IS 9920 IEC 62271 100 &200	IS 9920 IEC 62271 100 &200	Test certificate	9

4. PACKING

4.1 PACKING								
01	Wooden (Wherever applicable)	MA	Visual	100%	Std Practice	Std Practice	----	2



11. LIST OF TYPE TEST REPORTS FOR PRODUCTS

List of Type Test Reports for Load Break Switches and Vacuum LBS Panels

Sr. No.	Test Lab	Test Specimen	Particulars of Test Conducted	Test Report No.	Test Date
1	Electrical Research And Development Association, Vadodara.	11 kV, 630 Amps, 25 kA Load Break Switch	Lightning Impulse Voltage With Stand Test	HIMP/05/154-2	5/4/2011
2			Power Frequency Voltage With Stand Test (Dry)		
3			Short Time With Stand Current & Peak With Stand Current Tests	LSCM/206	5/17/2011
4			Temperature Rise Test	LSWG/106	6/1/2011
5			Rated Single Capacitor Bank Current Switching Test Duty- 4 C at 50 Amps	2011/STN-1/252	5/19/2011

Sr. No.	Test Lab	Test Specimen	Particulars of Test Conducted	Test Report No.	Test Date
1	Korea Electrotechnology Research Institute. South Korea.	12 kV, 630 Amps, 20 kA Vacuum Load Break Switch	Short Time With Stand Current Test	2008TC00694	23-07-2008 To 31-07-2008
2			Test duty- 1 (100 %, 5 %)		
3			Test duty- 2 a		
4			Test duty- 4 a (100 %, 30 %)		
5			Test duty- 4 b		
6			Test duty- 5		

Sr. No.	Test Lab	Test Specimen	Particulars of Test Conducted	Test Report No.	Test Date
1	Electrical Research And Development Association, Vadodara.	22 kV, 630 Amps, 25 kA Load Break Switch	Lightning Impulse Voltage With Stand Test	HIMP/05/154-1	5/4/2011
2			Power Frequency Voltage With Stand Test (Dry)		
3			Short Time With Stand Current & Peak With Stand Current Tests	LSCM/207	5/17/2011
4			Temperature Rise Test	LSWG/105	6/1/2011

List of Type Test Reports for Vacuum Circuit Breaker Panel

Sr. No.	Test Lab	Test Specimen	Particulars of Test Conducted	Test Report No.	Test Date
1	Central Power Research Institute, Bangalore.	12 kV, 630 Amps, 25 kA VCB Panel Indoor Type	Short Time With Stand Current & Peak With Stand Current Tests	SC06537C	11/16/2006
2			Temperature Rise Test & Milli Volt Drop Test	DCCD-9322	12/20/2006
3			Lightning Impulse Voltage With Stand Test	43/1/2006-	11/8/2006
4			Power Frequency Voltage With Stand Test (Dry)	HV/3625/PCES	
5		12 kV, 800 Amps, 25 kA VCB Panel Indoor Type	IP 4X Test	171EATDIP08S0082	5/1/2008
6		12 kV, 1600 Amps, 40 kA VCB Panel Indoor Type	Short Time With Stand Current & Peak With Stand Current Tests	SC08221A	6/16/2008
7			Lightning Impulse Voltage With Stand Test	43/1/2009-HV-6483 PCES	5/7/2009
8			Temperature Rise Test & Milli Volt Drop Test	DCCD-10879	5/5/2009
9			Temperature Rise Test & Milli Volt Drop Test	DCCD-10301	5/6/2008
10			Temperature Rise Test & Milli Volt Drop Test	DCCD-10790	2/11/2009
11	Electrical Research And Development Association, Vadodara.		12 kV, 2500 Amps, 31.5 kA VCB Outdoor Kiosk Type	Lightning Impulse Voltage With Stand Test	HIMP/04/949
12		Dry Power Frequency Voltage With Stand Test			
13		Wet Power Frequency Voltage With Stand Test	LSWG/2429	1/11/2010	
14		Temperature Rise Tests			
15		Temperature Rise Tests			LSWG/2575
16	Korea Electrotechnology Research Institute. South Korea.	12 kV, 1600 Amps, 40 kA VCB Panel Indoor Type	Internal Arc Test at 10 kA for 0.5 Seconds	2008TC00691	7/29/2008
17			Short Time With Stand Current Test	2008TC00695	22-07-2008 To 29-07-2008
18			Peak With Stand Current Test		
19			No Load Operation Test		
20			Basic Short Circuit Test- T 100 s		
21			Basic Short Circuit Test- T 100 a		
22			Basic Short Circuit Test- T 60		
23			Basic Short Circuit Test- T 30		
24			Basic Short Circuit Test- T 10		
25			Single Phase Fault Test		
26			Capacitive Current Switching Test BC/CC		
27			Out of Phase Making and Breaking Tests OP2		
28	No Load Operation Test				

29	Central Power Research Institute, Bangalore.	12 kV, 1250 Amps, 40 kA VCB Panel Indoor Type	Temperature Rise Test at 1250 Amps & Measurement of Resistance of Main Circuit	DCCD-12529	3/20/2012
----	--	---	--	------------	-----------

Sr. No.	Test Lab	Test Specimen	Particulars of Test Conducted	Test Report No.	Test Date
1	Central Power Research Institute, Bangalore.	22 kV, 1250 Amps, 25 kA VCB Panel Indoor Type	Temperature Rise Test at 1250 Amps & Measurement of The Resistance of Circuits	DCCD- 11845	12/23/2010
2	Electrical Research And Development Association, Vadodara.		Short Time With Stand Current & Peak With Stand Current Tests	SC 10917 A	12/30/2010
3			IP 4X Test	LIPS/2625	2/8/2011
			Lightning Impulse Voltage Withstand Test	HIMP/10/250	5/26/2011

Sr. No.	Test Lab	Test Specimen	Particulars of Test Conducted	Test Report No.	Test Date
1	Korea Electrotechnology Research Institute. South Korea.	36 kV, 1250 Amps, 25 kA VCB Panel Indoor Type	Short Time With Stand Current Test	2008 TC 00693	21-07-2008 To 30-07-2008
2			Peak With Stand Current Test		
3			No Load Operation Test		
4			Basic Short Circuit Test- T 100 s		
5			Basic Short Circuit Test- T 100 a		
6			Basic Short Circuit Test- T 60		
7			Basic Short Circuit Test- T 30		
8			Basic Short Circuit Test- T 10		
9			Single Phase Fault Test		
10			Capacitive Current Switching Test BC/CC		
11			Out of Phase Making and Breaking Tests OP2		
12			No Load Operation Test		

List of Type Test Reports for Porcelain Clad Vacuum Circuit Breaker

Sr. No.	Test Lab	Test Specimen	Particulars of Test Conducted	Test Report No.	Test Date
1	Central Power Research Institute, Bangalore.	12 kV, 1250 Amps, 25 kA Porcelain Clad Vacuum Circuit Breaker	Short Time With Stand Current & Peak With Stand Current Tests	SC06534A	11/13/2006
2			Temperature Rise Test & Milli Volt Drop Test	DCCD-9321	12/20/2006
3			Lightning Impulse Voltage With Stand Test	43/1/2006-HV/3628/PCES	11/8/2006
4			Power Frequency Voltage With Stand Test (Dry)		
5			Power Frequency Voltage With Stand Test (Wet)		
6	Electrical Research And Development Association, Vadodara.	IP 55 Test	LIPS/56	4/10/2008	

Sr. No.	Test Lab	Test Specimen	Particulars of Test Conducted	Test Report No.	Test Date
1	Central Power Research Institute, Bangalore.	36 kV, 1250 Amps, 25 kA Porcelain Clad Vacuum Circuit Breaker	Short Time With Stand Current & Peak With Stand Current Tests	SC06534 B	11/13/2006
2			Temperature Rise Test at 1600 A & Milli Volt Drop Test	DCCD-9907	8/25/2007
3			Temperature Rise Test & Milli Volt Drop Test	DCCD-9320	12/20/2006
4			Lightning Impulse Voltage With Stand Test	43/1/2006-HV/3627/PCES	11/8/2006
5			Power Frequency Voltage With Stand Test (Dry)		
6			Power Frequency Voltage With Stand Test (Wet)		
7			Seismic Test	EVRC.EEL.06.0809	7/17/2008
8	Electrical Research And Development Association, Vadodara.	36 kV, 1600 Amps, 25 kA Porcelain Clad Vacuum Circuit Breaker	IP 55 Test	LIPS/59	4/10/2008
9			Mechanical Operation Test at Ambient Air Temperature (Class- M2)	LSWG-1899 M2	12/5/2008
10	Korea Electrotechnology Research Institute. South Korea.	36 kV, 1600 Amps, 25 kA Porcelain Clad Vacuum Circuit Breaker	Short Time With Stand Current Test	2006TC00611	16-10-2006 To 19-10-2006
11			Peak With Stand Current Test		
12			No Load Operation Test		
13			Basic Short Circuit Test- T 100 s		
14			Basic Short Circuit Test- T 100 a		
15			Basic Short Circuit Test- T 60		
16			Basic Short Circuit Test- T 30		
17			Basic Short Circuit Test- T 10		
18			Single Phase Earth Fault Test		
19	No Load Operation Test				

20			Resistance Measurement Of Main Circuit		
21			No Load Operation Test		
22	Korea	36 kV, 1600 Amps, 25	Capacitive Current Switching Test BC1 / CC1	2006TC00611	16-10-2006 To 19-10-2006
23	Electrotechnology	kA Porcelain Clad	Capacitive Current Switching Test BC2 / CC2		
24	Research Institute.	Vacuum Circuit	Out of Phase Making and Breaking Tests OP2		
25	South Korea.	Breaker	No Load Operation Test		
26			Power Frequency Voltage With Stand Test	2006TC00614	11-10-2006 To 20-10-2006
27			Lightning Impulse Voltage With Stand Test		

List of Type Test Reports for Control and Relay Panel

Sr. No.	Test Lab	Test Specimen	Particulars of Test Conducted	Test Report No.	Test Date
1	Electrical Research And	Control and Relay	IP 55 Test	LIPS/58	4/10/2008
2	Development	Panel for 11 kV or 33	Verification Of Effectiveness of Protective Circuit	LSWG 1141	8/28/2008
3	Association, Vadodara.	kV Breaker	Verification of Dielectric Properties		

List of Type Test Reports for SF6 Gas Insulated Load Break Switches

Sr. No.	Test Lab	Test Specimen	Particulars of Test Conducted	Test Report No.	Test Date
1	Central Power Research Institute, Bangalore.	22 kV, 630 Amps, 20 kA SF6 Gas Insulated Load Break Switch	Measurement of Resistance of the main circuit and Temperature rise test at 630 Amps	DCCD - 12832	1/10/2012
2			Lightning Impulse Voltage Test.	43/1/2012-HV/0486/PCES	15/10/2012
3			Short Time With Stand Current & Peak With Stand Current Tests	SC12478A	25/10/2012



12. LIST OF VENDOR REGISTRATION APPROVAL

Sr. No.	Department/Organisation	State
1	Northern Power Distribution Company of A. P. Limited.	Warangal; Andra Pradesh.
2	Southern Power Distribution Company of A. P. Limited.	Tirupati; Andra Pradesh.
3	Eastern Power Distribution Company of A.P. Limited.	Visakhapatnam; Andra Pradesh.
4	Maharashtra State Electricity Distribution Company Limited	Mumbai; Maharashtra
5	Maharashtra State Electricity Distribution Company Limited	Pune; Maharashtra
6	Maharashtra State Electricity Transmission Company Limited	Mumbai; Maharashtra.
7	Public Works Departments	Mumbai; Maharashtra.
8	Public Works Departments	Bhopal, Madhya Pradesh.
9	Maharashtra Jeevan Pradhikaran.	Thane, Mumbai.
10	Jharkhand State Electricity Board	Ranchi; Jharkhand
11	City and Industrial Development Corporation of Maharashtra Ltd	Mumbai; Maharashtra.
12	Maharashtra Krishna Valley Development Corporation	Kolhapur; Maharashtra.

-----#####-----



13. LIST OF VALUED CUSTOMERS TO WHOM WE HAVE WORKED

Sr. No.	NAME	LOCATION / REGION
1	ABB LIMITED / MYTAS INFRA	BANGALORE
2	PANCHSHIL TECH PARK	YERAVADA/PUNE
3	VIDARBHA NICKEL PVT. LTD.	NAGPUR
4	GREAVES COTTON LIMITED	AURANGABAD
5	SUN IRRIGATION SYSTEMS PVT. LTD.	HATKANAGALE
6	WAI TALUKA SAHAKARI SOOT GIRNI LTD	WAI
7	DHANASHREE INDUSTRIES	SATARA
8	S K ELECTRO ENGG. & CO /PIX TRANSMISSION	NAGPUR
9	MAHABAL AUTO ANCILLARIES PVT LTD	UTTARNCHAL
10	SHAH PRECAST PVT LTD	SANGLI
11	BIRLA PERUCCHINI LIMITED	AURAGABAD
12	INDUS FILA LTD	MYSORE
13	WARANA DUDH SANGH	WARNANAGAR/KOLHAPUR
14	TATYASAHEB KORE WARANA SAH. SAKHAR KARHANA LTD	WARNANAGAR/KOLHAPUR
15	M'SONS FOUNDRY PVT LTD	ICHALKARANJI
16	VED TEXTILE	KOLHAPUR
17	POWER FILED CO	JAMMU
18	SYNGENTA INDIA LIMITED	RANEBENNUR
19	SHIVAM COMBINES	GOA
20	TRIVISTA STEELS & POWER PVT LTD	BELLARY
21	DIPS VET CARE GENEVET PVT LTD	KARAD
22	SAMARATH MAGAS VARGIYA SAHKARI SANTHA	HATKALAGDE
23	VINATI ORGANICS LIMITED	CHIPALUN
24	ROHIT SURFACEMENTS PVT. LTD	AURANGABAD
25	SANJAY D GHODAVAT INDUSTRIES	MAJLE /JAYSINGPUR
26	OCTAGA GREEN POWER & SHUGAR CO LTD.	CHIKKODI
27	ADHIKARI MAGAS VARGIYA AUDOGIK CO-OP SOCIETY	ICHALKARANJI
28	SHIROL TALUKA MAGASWARGIYA SAH. SOOT GIRNI	TAMDALGE / KOLHAPUR
29	BRAHMANANDA NARAYANA HRUDAYALAYA /RABINDRANATH TAGORE INTERNATIONAL INSTITUTE OF CARDIC SCIENCE	KOLKATTA
30	DEEGEE ORCHARDS LTD	HINGANGHAT
31	TIRUMALA TIRUPATHI DEVASTHAN	TIRUPATHI
32	EPCOS INDIA PRIVATE LIMITED	NASHIK
33	CHAROEN POKPHAND SEEDS INDIA PVT LTD	KRISHNA AP
34	REMI PROCESS PLANT & MACHINERY LTD	PALGHAR
35	KJSL COAL & POWER PVT LTD	KORBA/CHHATTISGARH
36	DN WIND SYSTEMS INDIA PVT LTD	PETH VADGAON
37	BALAJI AGRO BIOFUSE PRODUCTS PVT LTD	DEOGAON AHMADNAGAR
38	HARNAI SAHAKARI SOOT GIRANI	SATARA



39	V GUARD INDUSTRIES	UTTARKHAND
40	METRO HI-TECH CO-OPERATIVE TEXTILES LIMITED	KAGAL
41	FABTECH PROJECTS & ENGG LTD	SANGOLA
42	SHANKAR RAO MOHITE SAHKARI SAKHAR KARKHANA LTD	AKLUJ
43	TANTIA AGROCHEMICALS PVT LTD	UTTAR DINAJPUR
44	GADRE MARINE EXPORTSPVT LTD	VERAVAL
45	PARAS MIRACLE POLY PRODUCTS PVT LTD	AHMEDNAGER
46	SIDDHARTH MILK PRODUCTS	JAYSINGPUR
47	BIRLA COTSYN INDIA LTD	BULDHANA
48	ARISTO PHARMACEUTICALS PVT LTD	SOLAN(HP)
49	LANCO HILLS TECHNOLOGY PARK PVT LTD	HYDERABAD
50	KORTEN PHARAMCETICUALS PVT LTD	PALGHAR
51	SHRI SIDDHIVINAYAK GANPATI CANCER HOSPITAL	MIRAJ
52	SHRI NARSINHA SAHAKARI SOOT GIRNI	DEGLUR, NANDED
53	GAVADE TEXTILES	HATKANANGALE
54	WARNA SAHAKARI SAKHAR KARKHANA LTD.	WARNANAGAR
55	ADARSHA SPECIALITY CHEMICALS PVT. LTD.	TUMKUR
56	SHREE GAJANAN MAHARAJ SANSTHAN	SHEGAON/BULDHANA
57	BILTUBE INDUSTRIES LIMITED	KODOLI
58	LAHOTI TERRA KNITFAB TEXTILES LTD	SOLAPUR
59	ASTER TELE SERVICES PRIVATE LIMITED	HYDERABAD
60	MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.	MUMBAI
61	AJINKYATARA SAH. SAKHAR KARKHANA	KARAD
62	SHRI TATYASAHEB KORE NAVNIRMAN SAH. SANSTHA	WARNANAGAR
63	ALUCAST AUTO PARTS LTD.	BELGUM
64	SHRI BALAJI SAHAKARI SPINNING MILL	RISOD/ WASHIM
65	JAIL SUPERINTENDENT (GOV OF MAH.)	KOLHAPUR
66	CIVIL HOSPITAL	SANGLI
67	EAST CENTRAL RAILWAY	DHANBAD
68	HIGH COURT CIRCUIT	GULBURGA
69	MAHARASHTRA JEEVAN PRADHIKARAN IRRIGATION SCHEME	GONDIA
70	MIRAJ MEDICAL COLLEGE	MIRAJ
71	GOVT. WOMEN'S POLYTECHNIC	TASGOAN
72	DEPARTMENT OF ATOMIC ENERGY	MANUGURU /AP
73	A P STATE IRRIGATION DEVELOPMENT CORPORATION	ELUR /AP
74	JODHPUR INSTITUTE OF ENGINEERING & TECHNOLOGY, ARUN SHANTI EDUCATION TRUST	JAIPUR
75	RURAL WATER WORKS DEPARTMENT, MEHABOONNAGAR	HYDERABAD
76	SATRAPUR LIFT IRRIGATION SCHEME	NAGPUR

-----#####-----



14. OUR STRENGTH AND MERITS

OUR STRENGTH:-

- Creative work with Information.
- Expertise & Professionalism.
- Unique Solutions.
- International Know-how combined with experience in the local market.
- Flexibility & Attainability.

OUR MERITS:-

- Professional Quality of Services provided by a highly motivated team.
- Creative Approaches to the clients special need in order to find unique solutions.
- Unique & Creative Solutions that meet the client's expectations.

LOOKING AHEAD:-

We will continue to devote ourselves to R&D and Market Growth in the years to come. We are confident in our work and our ability to establish Strong, Enduring Relationships with our Customers well into the future.

-----#####-----



15. PRODUCT CATALOGUES