

ABAK®

ELECTROFAB ENGINEERING PVT.LTD.
COMPANY PROFILE



ISO 9001 : 2008



We are at your service for over two decades as the manufacturers of Electrical Panels finding application in various industries.



Power



Industry



Chemicals



Datacenters



Retail



Hospitals



Airports



Mall



Construction



Buildings

About Us

Abak Electrofab Engg. is a fast growing firm in the electrical field industry, known for specializing in a wide range of Power and Control Panels for all kind of industries. Equipped with all the facilities for manufacturing various types of Power and Control Panels, we have a professional team, which monitors that all the quality standards of each product are adhered to provide our client's expectations. Our projects stand testimony to the fact that Abak Electrofab delivers quality solutions.

Abak Electrofab is flexible enough to perform all types of project work depending upon any tender conditions. Our highly qualified and experienced team ensures to provide cost effective solutions along with high level performance.

Vision

At Abak Electrofab, our approach is total service coordination. We are dedicated to excellence and assurances. We believe that each client/project has special need and therefore we provide special responsiveness from beginning to end, and make cost-effective design to meet the needs of client. Also product invention is a continuous process at Abak Electrofab. We design the projects in best economical manner. The approach of Abak is to reduce highly personalized service at each stage and to attend to the need of the project.

Our Mission

Our mission is to provide superior services in our industry while consistently exceeding our customer's quality and delivery expectations. We achieve this through our strong commitment to continuous quality improvement and investments in the newest technologies by providing innovative electrical solutions and applications by utilizing superior materials. In our presence in the field of Electrical Control Panels since more than 23 years, we achieved remarkable growth, success and are thriving to gain more heights. We believe in working together as a team to deliver quality services to our customers to meet all their expectations.

Our Culture

At Abak Electrofab Engg. We believe in International Quality Standards. Our highly qualified and experienced team equipped with the latest machineries and technologies ensures to provide cost effective solutions along with high level performance. Our duty is to provide superior services in our industry while consistently exceeding our customer's quality and timely delivery expectations. Our objective is to develop long-term relationship with our clients, and servicing them through the delivery of integrated solutions that benefit their business requirements.



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PRODUCT RANGE

- Power Control Centre - Single / Double Front.
- L.T. Bus Ducts.
- AMF (Auto / Main / Failure) Panels for D.G. Sets.
- Power & Lighting Distribution Panels.
- Fire Fighting MCC Panels.
- Annunciator Panels / Mimic Panels.
- Motor Control Centre - Single / Double Front.
- Power Factor Correction Panel - Thyristor Based / Contactor Based.
- Auto Transformer Starter Panels.
- Control Desk & PLC Panels.
- AC & DC Drive Panels.
- L.T. Feeder Pillars - Indoor / Outdoor.



PCC Panel



Metering Panel



MCC Panels



Relay Control Panel



Chiller Panel



Main LT Panel



LT Panel



Starter Panel



Power Distribution Board

PRODUCT RANGE



Control Desk



AHU Panel



Lighting Distribution Board



Mimic Control Panel



MCC Panel



DC Drive Panel



PLC Panel



LT Bus Ducts



Stainless Steel Control Desk



Outdoor Type Panel



Feeder Pillar



Fire Fighting Panel

SEVEN TANK PROCESS



TANK: 1- DEGREASING

Chemical

Concentration

Temperature

Time

Application

PURPOSE:-

- V chemical DG-HD

- 8 to 10% W/V in cold

- Cold

- 10 to 15 Min

- Immersion.

- Removal of oil, grease & dirt

TANK: - 2 WATER WASH

Water Rinsing Timing

- 30 to 60 Seconds

TANK: - 3 DERUSTING

Chemical

Concentration

Time

Application

PURPOSE:-

- HCL

- 15 to 20% V/V

- 15 to 20 Min

- Immersion.

- Removal of rust. It is inhibited against metal attack and leaves a very thin corrosion resistance film on the metal.

SEVEN TANK PROCESS



TANK: - 4 WATER WASH

Water Rinsing Timing - 30 to 60 Seconds

TANK: - 5 PHOSPHATING

Chemical - V chemical 2P Clod LP

Concentration - 6% V/V

Time - 15 to 25 Min

Application - Immersion.

PURPOSE:- To control with little sludge formation it gives good paint adhesion on metal surface and non-metallic crystalline phosphate coating which is integral with base metal. This highly absorbent film is then impregnated with suitable organised finish to provide a corrosion resistance surface.

TANK: - 6 WATER WASH

Water Rinsing Timing - 30 to 60 Seconds

TANK: - 7 PASSIVATION

Chemical - V chemical Passivate

Concentration - 0.1% V/V

Time - 30 to 60 Seconds

Application - Immersion.

PURPOSE: - It seals the phosphate coating.

MACHINERY & EQUIPMENT DETAILS



CNC Turret Punch Press (AMADA)



Shearing Machine (Godrej)



Hydraulic Press Brake (AMADA)

FABRICATION

SR NO	NAME OF MACHINERY	MAKE	QTY
1	CNC Turret punch press	AMADA	1
2	Hydraulic press brake with auto back gauge	AMADA	1
3	Busbar cutting, Bending, Punching machine	AMADA	1
4	Welding machine	ASIATIC WELDERS	4
5	Busbar cutting machine	JASVANTH	1
6	Angle grinding machine	BLACK & DECKER	2
7	Table drilling machine	PRABHAT	1
8	Spot welding machine	ASIATIC WELDER	1
9	Angle grinding machine	RALLIWOLF	2
10	Busbar bending machine	DEEPAK	1
11	Hand drilling machine	BLACK & DECKER	3
12	Blower	HITACHI	1
13	Bench grinding machine	ELEC. MFG. CO	1
14	Tapping machine		1

POWDER COATING

1	Oven (60 KW Electric heater)	AUTOCOAT	1
2	Powder coating machine	THERMAX	1
3	Painting booth	AUTOCOAT	1
4	Air compressor - 3 Phase	FOWJI	1

TESTING INSTRUMENTS

SR NO	NAME	DESCRIPTION	MAKE
1	Megger (Insulation Tester) - Analog	0-500 M Ω / 1000 V DC	MOTWANE
2	Megger (Insulation Tester) - Digital	0-2000 M Ω / 1000 V DC	MOTWANE
3	HV Tester - Analog	0 TO 5 KV / 0-30 MA AC	AE
4	HEAT RUN Testing Equipment	0 TO 4000 A, 415 V	NEC
5	Digital Multimeter	10 A, 200 MA, 440 V	KUSAM-MECO
6	Vernier Caliper	0-400 mm	YAMAYO,JAPAN
7	Vernier Caliper	0-200 mm	YAMAYO,JAPAN
8	Digital Thickness Gauge	0-12.5 m	MITUTOYA, JAPAN
9	Measuring Tape	5 METER	TAPARIA
10	Pen Type Thickness Gauge (Powder Coating)	0 TO 500 MICRON	YUYUTSU,JAPAN
11	Wire Gauge	1 GAUGE TO 32 GAUGE	PUJIKOJU
12	Digital Multimeter	0-750 VAC	IDEAL
13	Digital AC/DC Clampmeter	10A-200MA	IDEAL

EXECUTED PROJECTS

Customer	Project
Commercial Projects	
A.S Electric Corporation	Office Building - Gail India Ltd, CBD Belapur, Navi Mumbai.
Artemis Properties Pvt. Ltd	IT Park Building - Faurecia, Pune.
Ashok Engineering	Custom Office Building - Nhava Sheva Port, JNPT.
	MTNL Office Building - Comballa Hill, Fort, Powai, Bandra, Thane & Vashi.
Ahluwalia Contracts (India) Limited	Bank Of India - Bandra Kurla Complex, Mumbai.
B G Shirke Construction Technology Pvt. Ltd	Millennium Business Park - Mahape & Millennium Tower-Sanpada.
Bansi Electricals	Reserve Bank Of India Colony - CBD Belapur, Navi Mumbai.
Bright Electricals	L&T Office Building - Powai & Mahape.
Daanish Sales Corporation	MTNL Office Building - Cuff Parade, Fountain & Thane.
Hi Tech Construction Group	Dumping Station - Turbhe, Navi Mumbai.
Hindustan Construction Company	Union Bank of India - Powai, Mumbai.
	State Bank Of India - Powai, Mumbai.
Indian Express Ltd	Head Office - Nariman Point, Mumbai & Mahape.
Kesar Group	Office Building - Palm Beach Road, Navi Mumbai.
Leena Powertech Engineers Pvt. Ltd	Cidco Bhavan - CBD Belapur, Navi Mumbai.
	IDBI Bank - CBD Belapur, Navi Mumbai.
	Railway Station - Kharghar, Kopar Khairane & Rabale. Navi Mumbai.
	State Bank Of India Global IT Centre - CBD Belapur, Navi Mumbai.
Larsen & Toubro Ltd	Omkar Project - Wadala, Mumbai.
New Fire Control	New Passport Office Building - Bandra Kurla Complex, Mumbai.
Pratibha Industries Ltd	Railway Station - Airoli & Ghansoli, Navi Mumbai.
Reliance Industries Pvt Ltd	NMSEZ IT Building - Navi Mumbai.
Reunion Engg Co Ltd	IL & FS Office Building - Bandra Kurla Complex, Mumbai.
Sterling & Wilson Elect Pvt Ltd	Tata Consulting Services - Office Building, Thane.
	VSNL Office Building - Pune, Maharashtra.
Tata Consulting Engineers	Office Building - Vikhroli, Mumbai.
Theji Electrical	Railway Station - CBD Belapur, Navi Mumbai.
Voltas Ltd	Punjab National Bank - Bandra Kurla Complex, Mumbai.

EXECUTED PROJECTS

Customer	Project
<u>Government Projects</u>	
A.S Electric Corporation	NMMC Pumping Station - Airoli & Ghansoli, Navi Mumbai.
	CIDCO Pumping Station - Pen, Maharashtra.
Capital Control Pvt Ltd	Pumping Station - Panjarpur, Bhiwandi, Mumbai.
Cool Air Engineering Company	HAL (Hindustan Aeronautics Ltd-Nashik, Maharashtra.
	CNW (Naval Station) - Karanja Project.
Daanish Sales Corporation	Mumbai Port Trust - Mumbai.
Friends Engineering Corporation	MJP - Buldhana, Temghar, Maharashtra.
Godrej & Boyce MFG Co Ltd	BARC (ESD (V) -61 Kalyan, Thane.
	BARC/TSD/43/2009 - 10, Mumbai.
Indigenous Control Electrical Pvt Ltd	India Security Press - Nasik, Maharashtra.
Leena Powertech Engg Pvt Ltd	NMSA (Navi Mumbai Sports Association) Vashi, Navi Mumbai
	NMMC Head Office - CBD Belapur, Navi Mumbai.
	Wonders Park - Nerul, Navi Mumbai.
	Central Park - Kharghar, Navi Mumbai.
Naik Environmenatal Engg	Cidco Exhibition Center & Business Center - Vashi.
NCC Ltd	Sewage Treatment Plant - Rabale, Navi Mumbai.
New Fire Engg Pvt Ltd	Mazagon Dock Ltd, Mumbai.
Reliable Electric Works	BHEL – Korba - East, Chhatisgarh.
	Sewage Treatment Plant - Panvel, Navi Mumbai.
Siemens Ltd	NMMT Bus Depot - Turbhe, Navi Mumbai.
	Gujarat Water Supply & Sewerage Board - Gujarat.
The Brindavan Corporation	Military Engg Services (MES) - INS HAMLTA, Malad, Mumbai.
	Air Force Station - Cotton Green, Mumbai.
	Garrison Engg - Colaba, Mumbai.
Three Star Engg Pvt. Ltd	Mod Labs BARC - Trombay, Mumbai.
Yogiraj Powertech Pvt. Ltd	11 KV Purnima Sub Station, BARC - Trombay, Mumbai.
<u>Hospital Projects</u>	
Amit Construction	NMMC Hospital - Airoli, Navi Mumbai.
	NMMC Hospital - Nerul, Navi Mumbai.
MGM Hospital	Vashi, Belapur, Kalamboli, Kamothe & Sanpada.
Power flash Electricals	Bhatia Hospital - Tardeo, Mumbai.
Sterling & Wilson Elec. Pvt.Ltd	Aditya Birla Memorial Hospital - Pune, Maharashtra.

EXECUTED PROJECTS

Customer	Project
<u>Industrial Projects</u>	
Allana Foods Ltd	Aurangabad, Aligarh & Taloja.
Bharat Gears Ltd	Kalwa - Thane.
Essar Agrotech Ltd	Pawna Nagar & Tungi Site - Lonavala, Maharashtra.
Exide Industries	Taloja, Navi Mumbai.
GSN Ferro alloys Pvt Ltd	Secunderabad, Andhra Pradesh.
Hindustan Insecticides Ltd	E C Plant - Rasayani, Raigad District, Maharashtra.
Hindustan Stainless Pvt Ltd	Khopoli, Raigad District, Maharashtra.
Ispat Industries Ltd	Ispat Jetty - Pen, Raigad District, Maharashtra.
Multiway Automation Pvt Ltd	Tata Steel Ltd - Kolkata.
Nelco Ltd	IISCO steel plant - Burnpur, West Bengal.
Niraj Cement Structures Ltd	Panvel Plant, Raigad District, Maharashtra.
Owens Corning India Ltd	Glass Factory - Taloja, Navi Mumbai.
Parle International Pvt Ltd	Patalganga, Maharashtra.
Petron Engineering Construction Ltd	ACC Ltd - Cement Plants, Wadi, Karnataka.
	Madras Cement Ltd - Andhra Pradesh.
Simsys Enterprises	Coca cola Plant - Thane, Maharashtra.
Sheetal Cold Storage Pvt Ltd	Turbhe & Taloja Plant, Navi Mumbai.
Sri Jayalakshmi Ferro Alloys Pvt Ltd	Visakhapatnam, Andhra Pradesh.
Tata Steel Ltd	Gopalpur, Odisha.
<u>Oil, Gas & Chemical Projects</u>	
Agnice Fire Protection Ltd	IOCL - Uhde, Vadodara, Gujarat.
	HPCL - Trombay, Mumbai, Maharashtra.
	MRPL - Mangalore, Karnataka.
Asean Power Engg Pvt Ltd	Fugro Survey India Ltd-Turbhe, Navi Mumbai.
BASF India Ltd	Turbhe, Navi Mumbai.
Clariant Chemicals Pvt Ltd	Bhiwandi, Maharashtra.
Datamatrix Information Tech Ltd	IOCL - Digboi Refinery, Assam.
Dorf Ketal Chemicals Ltd	Taloja, Raigad District, Maharashtra.
IOT Engineering Projects Pvt Ltd	IOCL, Panipat, Haryana.
Maharashtra Polybutines Ltd	Mahape, Navi Mumbai.
National Peroxide Ltd	Village Vadavali, Kalyan, Maharashtra.
Pennwalt India Ltd	Oil Purification Unit - Turbhe, Navi Mumbai.
Petron Engineering Construction Ltd	IOCL - Panipat, Haryana.
	GAIL - Panipat, Haryana.
Power House	ONGC - Panvel, Navi Mumbai.
Tyco Engg & Cont. Pvt Ltd	LPG Bottling Plant - Pondicherry.
Voltas Ltd	IOCL, Panipat, Haryana.



EXECUTED PROJECTS

Customer	Project
<u>Pharmaceutical Projects</u>	
Aanjaneya Biotech Pvt Ltd	Mahad, Raigad Distric, Maharashtra.
Anuh Pharma Ltd	Tarapur, Maharashtra.
Enaltec Labs Pvt Ltd	Ambarnath, Maharashtra.
Glenmark Pharmaceutical Ltd	R&D center - Mahape, Navi Mumbai.
Nestler Ltd	Glenmark Pharmaceutical Ltd – Goa.
	Cipla Ltd - Kurkumbh, Pune, Maharashtra.
Omkar Speciality Chemicals Pvt Ltd	Badlapur, Thane.
Padarsh Pharmaceuticals Pvt Ltd	Pawane, Navi Mumbai.
Shreechem Pharmaceuticals Pvt Ltd	Rabale, Navi Mumbai.
<u>Power Plant Projects</u>	
ABB Ltd	Tata Electric 245KV GIS Backbay Sub station Project - Mumbai.
Agnice Fire Protection Ltd	Adani Power Ltd - Kawai, Rajasthan.
	BLA Power Plant Project - Jabalpur.
Batliboi Environmental Engg Ltd	NTPC - Tanda Thermal Power, Uttar Pradesh.
Datamatics Information Technologies Ltd	NTPC - Unchahar Project, Uttar Pradesh.
	NTPC - Singrauli, Madhya Pradesh.
IOT Engineering Projects Pvt Ltd	Thermal Power – Kawai, Rajasthan.
Leena Powertech Engg Pvt Ltd	Power Plant-Dabhol, Haryana.
Petron Engineering Construction Ltd	Tata Electric CO's – Kundli, Haryana.
Siemens Ltd	Tata Electric CO's Hydro Power Plant.
Urja Engineering Pvt Ltd	Kakrapar Atomic Power Project - UNITS – 3&4 ,NPCL-Gujarat.
<u>Residential Project</u>	
Ashok Engineering	Residential quarters - Nhava sheva, Maharashtra.
B G Shirke Construction Tech Pvt Ltd	Millennium Towers - Sanpada, Navi Mumbai.
Damadortech Pvt Ltd	Lavasa Hill City, Temghar Lavasa Road, Padalghar.
Leena Powertech Engg Pvt Ltd	Spaghetti Mass Housing Project – Airoli & Kharghar.
	NRI Complex - CBD Belapur, Navi Mumbai.
Larsen & Toubro Pvt Ltd	Omkar Rehab Project - Bhoiwada, Mumbai.

EXECUTED PROJECTS

Customer	Project
<u>School & college Projects</u>	
A S Electric Corporation Ltd	IIT, Powai, Mumbai.
Leena Electro Mechanical Pvt. Ltd.	Fr. Agnel School - Vashi, Navi Mumbai.
Lanco Infotech Ltd	Fr. Agnel School - Ambernath.
New Horizon School	Airoli & Panvel, Navi Mumbai.
DAV School	Airoli, Nerul & Panvel- Navi Mumbai.
Seventh Day School	Sanpada, Navi Mumbai.
<u>Export Project</u>	
Allana-Frigeria Boran Foods	Adamatulu - Ethiopia (Africa).
Direct Reduction Iron Co. Ltd	Dammam, Saudi Arabia.
Tuwairqi Group of companies	Al Tuwairqi Group National Iron & Steel Factory - Karachi.
Busi & Stephenson Ltd, UK	Intercap Food Processing Plant, Zartech Ltd - Nigeria.
	Sweetco Foods & Zaritech Ltd - Nigeria.
Concept point telecom ltd	Ijede Ikorodu Lagos - Nigeria.
Damadortech Pvt Ltd	Faiz E Husaini - Karbala Faiz – Iraq.
Firescan Safety System Pvt Ltd	Kathmandu - Nepal.
Indus International FZC	Sharjah, United Arab Emirates (UAE).
Lloyd Power Ltd	Dubai - United Arab Emirates (UAE).
Multiway Automation Pvt Ltd	Match Corporation Ltd - Luanshya, Zambia.
National biscuit industries ltd	Rusayl, Muscat - Oman.
New Electrical Pvt Ltd	Slaughtering Plant Zartech Ltd - Nigeria.
PCL International Pvt Ltd	Singapore.
Salman Al Johar Ferro Alloys Factory	Dammam - Saudi Arabia.
Siemens Ltd	Mascot.
BEST Exports Centre Pvt Ltd	Nigerian Mill - Nigeria.
Ultra Electric Co Pvt Ltd	Athi River Mining Ltd, Nairobi- Kenya.
<u>Miscellaneous Projects</u>	
Bajaj Electrical Pvt Ltd	All over India.
Emerson Network Power Pvt Ltd	All over India.
Reliance Communication Ltd	DAKC, Mahape, Mumbai.
Reliance Infocomm Infrastructure Pvt Ltd	MBP, Mahape, Mumbai.
Vodatone Essar cellular Ltd	Pune, Nagpur.



IP-42 TEST REPORT

 GOVERNMENT OF INDIA ELECTRONICS REGIONAL TEST LABORATORY (WEST) MINISTRY OF COMMUNICATIONS & INFORMATION TECHNOLOGY DEPT. OF INFORMATION TECHNOLOGY, STQC DTE.		 Certificate No. T-134
REPORT NO.: ERTL (W)/ 2011ENV171		PAGE: 1 OF 5
TEST REPORT		
TITLE: TESTING OF CONTROL PANEL		DATE OF ISSUE: 06-JUL-2011
1.0 Scope 1.1 Service request no and Date: As per cover sheet 1.2 Name and address of Customer: As per cover sheet		
1.3 Description & Identification of Test item(s)	Nomenclature: CONTROL PANEL*	
	Make: ABAK ELECTROFAB ENGG PVT. LTD.	
	Model/Type: ABAK-03*	
	Sr. No.: 6479	
	Quantity: 01 NO.	
1.4 Item(s) condition on receipt: OK	Received Date: 30-JUN-2011	Test Completed Date: 01-JUL-2011
1.5 Testing performed at:	ERTL (W), Mumbai	
1.6 Test Specification / Test Procedure used	IP-42, AS PER IS:13947 ERTL (W) ENV/OP/33.	
1.7 Major Equipments used and Traceability Details:		
Sl. No.	Equipment Used	Uncertainty (Best Case)
1	Dripping Water Apparatus. (Code No. ENV/105)	-----
2	Rigid Steel Wire (Diameter: 1mm). (Code No. ENV/090)	± 0.02 mm
		Calibration Report Ref. 2011TNP517
		Valid up to 28-JUN-2012

* : Declared by customer but not found on the sample.



QSF 5.10.02, dated 01/7/2008

IP-43 TEST REPORT

 ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION (Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India) ERDA Road, Makarpura Industrial Estate, Vadodra-390 010, India. EPABX : +91 (0265) 2642942, 2642964, 2642977, 3043128 / 29 / 30 / 31 / 33 Fax : +91 (0265) 2638352 E-mail : erda@erda.org Web : http://www.erda.org		
TEST REPORT		SHEET 01 OF 02
NAME AND ADDRESS OF CUSTOMER	TEST REPORT NO.: RP-1516-002964	
ABAK ELECTROFAB ENGINEERING PVT LTD.	DATE: 24/04/2015	
C-416, TTC, MIDC, TURBHE, NAVI MUMBAI - 400705.	CUSTOMER REF. NO.	DATED
		10/04/2015
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	08/04/2015	21/04/2015
SAMPLE DESCRIPTION	SAMPLE IDENTIFICATION	
2 WAY DISTRIBUTION PANEL FOR 100KVA TRANSFORMER WITH 125A MCCB	ERDA Sample Code No.: ERDA-00086519	
Containing: 2 Nos. of 125A TP MCCB in outgoing circuit & Busbars	Drg. No.: LPEPL-6188 (Rev. 05) (Sheet 1 of 2) (Sheet 2 of 2) (Total 2 sheets)	
	Sr. No.: 8597	
TEST DETAILS	TEST SPECIFICATION	
1.0 IP 43 tests	IEC 60529-2013	
Enclosures: i) Photograph No.: a) ERDA-00086519/1 to 3 ii) Drg. No.: LPEPL-6188 (Rev. 05) (Sheet 1 of 2) (Sheet 2 of 2) (Total 2 sheets)		
Test witnessed by: Mr. Chetan B. Vichave (Sr. Testing Engineer) from M/s. ABAK Electrofab Engineering Pvt. Ltd., Navi Mumbai.		
Remarks: Sample conforms to the requirement of IP 43 tests as per the standard.		
PREPARED BY	CHECKED BY	APPROVED BY
		(G. SOM)
Note: 1. This report relates only to the particular sample received for testing in good condition at ERDA. 2. This report cannot be reproduced in part under any circumstances. 3. Publication of this report requires prior permission in writing from Director, ERDA. 4. Only the tests asked for by the customer have been carried out. 5. In case of any dispute, Vadodra will be the exclusive jurisdiction & shall be construed as where the cause has arisen. Caution: ERDA is not responsible for the authenticity of photocopied or reproduced test reports. ERDA provides support to customers for verification of the authenticity of test reports issued by ERDA.		

TE-1685149

IP-52 TEST REPORT

 GOVERNMENT OF INDIA ELECTRONICS REGIONAL TEST LABORATORY (WEST) MINISTRY OF COMMUNICATIONS & INFORMATION TECHNOLOGY DEPT. OF INFORMATION TECHNOLOGY, STQC DTE.		 Certificate No. T-134
REPORT NO. ERTL (W)/ 2008ENV320		PAGE: 1 OF 3
TEST REPORT		
TITLE: TESTING OF ELECTRICAL PANEL ENCLOSURE		DATE OF ISSUE: 06-OCT-2008
1.0 Scope 1.1 Service request no and Date: As per cover sheet 1.2 Name and address of Customer: As per cover sheet		
1.3 Description & Identification of Test item(s)	Nomenclature: ELECTRICAL PANEL ENCLOSURE	
	Make: ABAK ELECTROFAB ENGINEERING PVT LTD	
	Model/Type: ---	
	Sl. No.: 4702	
	Quantity: 01	
1.4 Item(s) condition on receipt: OK	Received Date: 25-SEP-2008	Test Completed Date: 02-OCT-2008
1.5 Testing performed at:	ERTL (W), Mumbai	
1.6 Test Specification / Test Procedure used	IP-52/ IS: 13947, in conjunction with Customer's Specification ENV/OP/033.	
1.7 Major Equipments used and Traceability Details:		
Sl. No.	Equipment Used	Uncertainty (Best Case)
1	Dust Test Chamber.	± 0.70 °C
2	Spray Test system	± 0.12 µm
		Calibration Report Ref. 2008ENV051
		Valid up to 06-FEB-09
		Calibration Report Ref. 2008DJM014
		Valid up to 05-FEB-09




QSF 5.10.02, dated 01/7/2008

IP-54 TEST REPORT

ELECTRONICS REGIONAL TEST LABORATORY (WEST) REPORT NO.		1. DATE: 18 DEC 1998
DEPARTMENT OF ELECTRONICS (STQC Dte.)		2. PAGE: 1 OF 03
SUBJECT: TESTING OF CONTROL PANEL		
1. SCOPE 1.1 Service Request Details : 1.1.1 Service Request No. : ERTL(W)/98INV00762 1.1.2 Service Request finalized on : 20-NOV-98 1.1.3 Requested by (Name and address of organization) : ABAK ELECTROFAB ENGG. P. LTD. C-416, MIDC TTC, TURBHE, NAVI MUMBAI-400705. 1.2 Item Details: 1.2.1 Description Qty Type/Model No. Sr. No. Manufacturer CONTROL PANEL 01 ERTL/220 ABAK ELECTROFAB ENGINEERING PVT. LTD. 1.3 Ambient Conditions : Temperature : (15 to 35) deg.C Humidity : (45 to 75) % RH 1.4 Test Specifications : IP54(b) Conditioning as per IS:13947 1.5 Environmental Simulator used : 1. Dust Chamber (Code: ENV/052) 2. Spray Nozzle		
* As specified by the Customer.		

RELEASED



IP-55 TEST REPORT

 GOVERNMENT OF INDIA ELECTRONICS REGIONAL TEST LABORATORY (WEST) MINISTRY OF COMMUNICATIONS & INFORMATION TECHNOLOGY DEPT. OF INFORMATION TECHNOLOGY, STQC DTE.		 Certificate No. T-134
REPORT NO. ERTL (W) 2009ENV253		PAGE 1 OF 8
TEST REPORT		
TITLE: TESTING OF ELECTRICAL CONTROL PANEL		DATE OF ISSUE: 03-AUG-2009
1.0 SCOPE 1.1 Service request no and Date: As per cover sheet 1.2 Name and address of Customer: As per cover sheet		
1.3 Description & Identification of Test item(s)	Nomenclature: ELECTRICAL CONTROL PANEL Make: ABAK ELECTROFAB ENGG. PVT. LTD. Type: _____ SI. No.: 5248 Quantity: 01 No.	
1.4 Item(s) condition on receipt: OK	Received Date: 29-JUL-2009 Test Completed Date: 30-JUL-2009	
1.5 Testing performed at:	ERTL (W), Mumbai	
1.6 Test Specification / Test Procedure used	IP-55 Category 2 as per IS 13947	
1.7 Major Equipments used and Traceability Details:		
Sl. No.	Equipment Used	Uncertainty (Best Case)
1	Dust Test Chamber (Code No. ENV/053)	± 0.30 °C
2	Ingress Protection Test System (IPX5 & IPX6)	± 0.07mm
		Calibration Report Ref.
		Valid up to
		2009TNP099
		17-FEB-2010
		2009TNP281
		24-JUN-2010
 QSF 5.10.02, dated 01/7/2008		




IP 65 TEST REPORT

 ELECTRONICS REGIONAL TEST LABORATORY (WEST) DEPARTMENT OF INFORMATION TECHNOLOGY (STQC Dte.)		REPORT NO. ERTL (WJ)2005ENV338
SUBJECT: TESTING OF STARTER PANEL		DATE: 7 OCT 2005
PAGE 1 OF 1		
1.0 SCOPE		
1.1 Service Request Details		
1.1.1 Service Request No.	ERTL (WJ)20051706	29 SEP 2005
1.1.2 Service Request finalized on	29 SEP 2005	
1.1.3 Requested by (Name and address of Organization)	ABAK ELECTROFAB ENGINEERING PVT. LTD. C-416, MIDC, TTC, TURBHE, NAVI MUMBAI 400 705	
1.2 Item Details (as specified by the Customer)		
1.2.1 Nomenclature	Qty.	Type No.
STARTER PANEL	01	2843
1.3 Ambient conditions		
Temperature: (25 to 35) °C		
Humidity: (45 to 75) % RH		
1.4 Test Specifications		
IP 65 tests as per IS: 13947 1993		
1.5 Environmental Simulators used		
1. Dust Chamber (Code: ENV/053) 2. Spray Nozzle (Code: ENV/080)		
2.0 TEST RESULTS:		
2.1 IP 6X		
8-hour conditioning at Ambient temperature as per IS: 13947		
2.2 IP X5		
3-minute conditioning as per IS: 13947		
2.3 Observations		
a. No deposit of dust was observed inside the enclosure after IP 6X test. b. No ingress of water was observed inside the enclosure after IP X 5 test.		
3.0 GENERAL REMARKS:		
a. NABL Certificate No 7-0134 b. This report is for environmental conditioning only. No Electrical/Functional check have been carried out before, during or after conditioning by us.		
REPORT APPROVED BY		REPORT RELEASED BY
(P. K. Duttaj) Head, Test Operations		(S. Vamshi Krishna Murthy) OIC, Customer Service Cell

IP-66 TEST REPORT

 ELECTRONICS REGIONAL TEST LABORATORY (WEST) DEPT. OF INFORMATION TECHNOLOGY (STQC Dte.)		REPORT NO. ERTL (WJ)2005ENV346			
SUBJECT: TESTING OF STARTER PANEL		DATE: 14 NOV 2005			
PAGE 1 OF 2					
1 SCOPE					
1.1 Service Request Details					
1.1.1 Service Request No.	ERTL(WJ)20051812	14-OCT-2005			
1.1.2 Service Request finalized on	14-OCT-2005				
1.1.3 Requested by (Name and address of Organisation)	ABAK ELECTROFAB ENGINEERING PVT. LTD. C - 416, MIDC, TTC, TURBHE, NAVI MUMBAI 400 705				
1.2. Item Details					
1.2.1 Nomenclature	Qty	Type No.			
STARTER PANEL	2843	2843			
1.3 Ambient conditions					
Temperature: (15 to 35) °C Humidity: (45 to 75) % Rh					
1.4 Test Specifications					
IP 66 As per IS 13947, 1993					
1.5 Environmental Simulators used					
I. Dust Chamber (Code: ENV/053) II. Spray Nozzle (Code: ENV/081)					
2.0 TEST RESULTS:					
S.No	Test	Test Condition	Requirements	Observations	Remarks
1.0	IP 6 X				
1.1	Visual check	With naked eye	There shall be no visual damage and no presence of dust inside the enclosure.	No visual damage and presence of dust observed inside the enclosure.	Complied
1.2	IP 6 X	As per IS: 13947 - 1993 Temp. Ambient Duration: 8 hrs.	As per IS: 13947 - 1993	Conditioned.	—
1.3	Visual check	As per IS: 13947 - 1993	As per IS: 13947 - 1993	No Ingress of dust found inside the UUT.	Complied
2.0	IP X 6				
2.1	Visual Check	With naked eye	There shall be no presence of water inside the enclosure.	No presence of water observed inside UUT.	Complied
2.2	IP X 6	As per IS: 13947 - 1993 Temp. Ambient Duration: 3 min	To be Conditioned	Conditioned	—
2.3	Visual check	As per IS: 13947	As per IS: 13947	No ingress of water found inside UUT.	Complied
* as specified by the customer. UUT: Unit Under Test.					
					

SHORT CIRCUIT TEST REPORT

CENTRAL POWER RESEARCH INSTITUTE (MEMBER OF STL)		 CPRI
TEST REPORT		
Test Report Number	S2140147	Date: 5 MAR 2014
Name & address of the Customer	M/s Abak Electro Fab Engineering Pvt.Ltd., C-416, MIDC, TTC, Turbhe, Navi Mumbai-400 705	
Name & address of the Manufacturer	M/s Abak Electro Fab Engineering Pvt.Ltd., C-416, MIDC, TTC, Turbhe, Navi Mumbai-400 705	
Particulars of sample tested	PCC LT Panel	
Condition of sample on Receipt	New	
Type	Indoor	
Designation	PCC LT Panel	
Serial number	AEEPL/ST/14-15/01	
Number of samples tested	One	
Date(s) of Test(s)	19 th February 2014	
CPRI sample code no.	STDSS214S0213	
Particulars of tests conducted	Verification of the short circuit withstand strength	
Test in accordance with	As per clause 8.2.3 of IS: 8623 (Part I)-1993	
Sampling plan	Not applicable	
Customer's requirement	Nil	
Deviations if any	Nil	
Name of the Witnessing persons	Shri U.K. Rao	
Customer's representative	Nil	
Other than Customer's representatives	None	
Test subcontracted with address of the laboratory		
Documents constituting this report (in words)		
Number of sheets	Five	
Number of oscillograms	Two	
Number of graphs	Nil	
Number of photos	One	
Number of Test circuit diagrams	Two	
Number of drawings	Two	
(HIMANGSHU ROY) TEST ENGINEER		 (ANUPAM AWASTHI) JOINT DIRECTOR

TEMPERATURE RISE TEST REPORT

CENTRAL POWER RESEARCH INSTITUTE
(Member of STL)
SWITCHGEAR TESTING & DEVELOPMENT STATION
GOVINDPURA, BHOPAL - 462 023, INDIA
Phone : +91(0)755 2586882 Fax : +91 (0)755 2587774

CPR Certificate No. T-001
Sheet 1 of 6
Date: **9 DEC 2008**

TEST REPORT

Test Report No. : 2008/STL/783

Name and Address of the Customer : M/s Abak Electrofab Engineering Pvt. Ltd.
C-416, MIDC TTC Turbhe,
Navi Mumbai-400 703

Name and Address of the Manufacturer : M/s Abak Electrofab Engineering Pvt. Ltd.
C-416, MIDC TTC Turbhe,
Navi Mumbai-400 703

Particulars of Sample(s) Tested : 415V, 4000A, PCC Panel

Condition of sample(s) on receipt : New
Type : Indoor
Designation : PCC panel
Serial Number(s) : NIL
Number of Sample(s) Tested : One
Date(s) of Test(s) : 16/10/2008
CPR sample code number(s) : STDSS208S1004
Sealing of the sample if any : No

Particulars of test(s) conducted : Verification of Temperature Rise Limits.
IS 8623 (Part-1), 1993 & customer requirement

Test(s) in accordance with : Standard specification
Sampling Plan : NIL
Customer's Requirement : Maximum temperature rise limits on busbar & busbar joints to be 75°C declared by the customer.
Deviations, if any : NIL
Name of the witnessing persons : Mr. Murthy Pillai, Electrical Engineer
Customer's Representatives : NIL
Other than Customer's Representatives : NIL
Test subcontracted with name and address of the laboratory : NONE

Documents constituting this report (in words)
No. of Sheet(s) : SIX
No. of Oscillogram(s) : NIL
No. of Graph(s) : NIL
No. of Photograph(s) : NIL
No. of Test Circuit Diagram(s) : NIL
No. of drawing(s) : THREE

TEST ENGINEER
(SATISH KUMAR)

JOINT DIRECTOR
(B.M. MEHRA)

TEMPERATURE RISE TEST REPORT

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION
(Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India)
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Fax : +91 (0262) 2636382
E-mail : erda@erda.org
Web : http://www.erda.org

TEST REPORT
Sheet 1 of 3
Date : 06/05/2015
CUSTOMER REF. NO. :
DATED : 14/05/2015
DATE OF SAMPLE RECEIPT : 14/05/2015
DATE OF TESTING : 14/05/2015 to 26/05/2015

NAME & ADDRESS OF THE CUSTOMER : ABAK ELECTROFAB ENGINEERING PVT. LTD.
C-416, TTC, MIDC, TURBHE, NAVI MUMBAI - 400705

SAMPLE DESCRIPTION : 2 WAY DISTRIBUTION PANEL FOR 100KVA TRANSFORMER WITH 125A MCCB
Rated voltage : 440V
Rated current (incoming) : 150A
No. of phases : 3
Rated frequency : 50Hz
Quantity (tested) : 1 no.

SAMPLE IDENTIFICATION : ERDA sample code no.: ERDA-00091105
Sr. No. : 8597
Manufacturer's name: M/s. ABAK ELECTROFAB ENGG. PVT LTD.
Drawing No.:
i) LPEPL-6188 (REV.05) (SH.NO. 1 OF 2)
ii) LPEPL-6188 (REV.05) (SH.NO. 1 OF 1)
iii) LPEPL-6188 (REV.05) (SH.NO. 2 OF 2)
(Total 03 Nos.)

TEST DETAILS : 1) Verification of temperature-rise limits
As per customer's requirement & test procedure followed as per IS : 8623 (Part 1):1993/ IEC Pub. : 439-1 (1985)

ENCLOSURE : 1) Photograph No.:1516-002626/A to C (Total 03 nos.)
2) Oscillogram no. : Nil
3) Drawing No. : i) LPEPL-6188 (REV.05) (SH.NO. 1 OF 2)
ii) LPEPL-6188 (REV.05) (SH.NO. 1 OF 1)
iii) LPEPL-6188 (REV.05) (SH.NO. 2 OF 2) (Total 03 Nos.)

NOTE : As per customer's requirement, only horizontal & vertical busbars were tested during verification of temperature-rise test.

TEST WITNESSED BY : Mr. Nilmini mode (Sr. Executive) of M/s. ABAK ELECTROFAB ENGG. PVT LTD.

REMARKS : Sample conforms to the requirement of the customer for the test carried out.

Prepared By : Checked By : Approved By : G.som

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SHORT CIRCUIT TEST REPORT

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION
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Fax : +91 (0262) 2636382
E-mail : erda@erda.org
Web : http://www.erda.org

TEST REPORT
SHEET 1 OF 5

NAME & ADDRESS OF CUSTOMER : ABAK ELECTROFAB ENGINEERING PVT. LTD.
C-416, MIDC, TTC, Turbhe, Navi Mumbai-400 705.

REPORT NO.: RP-1516-001400
DATE: 10.04.2015
CUSTOMER REF. NO.: NIL
DATED: 07.04.2015
DATE OF SAMPLE RECEIPT: 08.04.2015
DATE OF TESTING: 09.04.2015 to 10.04.2015

SAMPLE DESCRIPTION : ZWAY DISTRIBUTION PANEL FOR 100 KVA TRANSFORMER WITH 125A MCCB
Rated current: 150A,
Rated operational voltage (Ue): 415V,
No. of Phases: 3 Phase + Neutral + Earth,
Rated frequency: 50 Hz.,
No. of ways: Incoming - Two,
Outgoing - Two,
Rated insulation voltage (Ui): 500V,
Rated short time withstand current & its duration :
- 25 kArms for 1 Sec. with an initial peak of 52.5 kA between phases.
- 15 kArms for 1 Sec. with an initial peak of 30 kA between adjacent phase and neutral.
Further details as per SHEET 3 of 5.

SAMPLE IDENTIFICATION : ERDA SAMPLE CODE NO.: ERDA-00086519
SR. NO.: 8597
DRAWING NO.: LPEPL-6188 REV. 05 SH. NO. 1 OF 2
LPEPL-6188 REV. 05 SH. NO. 2 OF 2

TEST DETAILS : Verification of the short-circuit withstand strength (C.I. No. 8.2.3)
TEST SPECIFICATIONS : As per customers' requirements & Test procedure followed as per IS: 8623 (Part 1):1993/ IEC Pub. 439-1 (1985)

ENCLOSURES : Number of oscillograms : Three
Number of photograph : One
Number of test circuit diagram : Two
Number of drawings : Two

TEST WITNESSED BY: Mr. M. N. Kapadia

REMARKS: The sample conforms to the requirement of verification of the short-circuit withstand strength as specified by the customer.

PREPARED BY : CHECKED BY : APPROVED BY : J. R. Tahlilwani

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Certificate No. CE-11320

Certificate of Verification
This is to Certify that

ABAK Electrofab Engineering Pvt. Ltd.
C-416, MIDC, TTC Industrial Area, Turbhe, Navi Mumbai - 400 705, Maharashtra, India.

has been assessed successfully and found complying with European directives Declaration of Conformity by the client, which clearly states that it meets & applicable standards following the formation of the technical file and the basic prerequisites regarding the safety and strength of the following products.

Products Covered : 1. Electrical Power and Control Panels

Directives Covered : i) 2006/95/EC

CE

Issue Date: 10.07.2014
Expiry Date: 09.07.2019

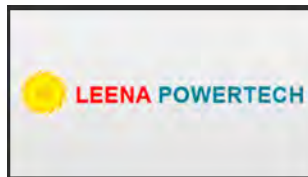
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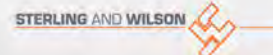
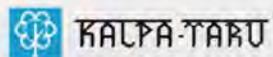
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