BHARAT ENGINEERS

energize the nation

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Introduction

Our organization,
M/s. Bharat Engineers
Established in **Aug-2005**
and having consistent growth
year after year since than. .

Buying **Bharat Engineers** switchboards, Ensures

- Latest technology at an affordable price
- Commitment for product quality
- Commitment of product delivery
- Better technical competency
- Incredible ease of operation
- Optimum operational safety
- Best value for money
- Trouble free operational life
- Ease in operation and Maintatnance

Our Key Strengths

- Understanding and implementing customer needs & requirements.
- Design and manufacturing as per our type tested panel at CPRI & ERDA.
- Detailed documentation and drawings pre and post order stage.
- Detailed Engineering of GA Drawings on Solid works / 3 D
- Sheet metal fabrication precisely by latest technology
- In-house Pretreatment process (Seven tanks) on sheet metal surface for Anti corrosion.
- In-house Powder coating with proper pretreatment to ensure better finish and environment resistance.

Our Key Strengths

- Bus bars of uniform cross section throughout the length of the switchboard assembly.
- Bus bar fabrication on Latest CNC Machine for better conductivity and least resistance at Joints.
- All switchgears directly sourced from manufacturer for quality assurance, genuineness and service backup.
- New assembly techniques and modern manufacturing methods.
- Integrated with own testing facilities and stringent quality control, ensures high degree of reliability and safety of operating personnel's.
- Excellent Infrastructure.
- Adeptness of new technology

List of Products

- Design, Manufacturing & supply of all kinds of Electrical Distribution Panels. Such as PCC, MCC, PDB's, MLDB, LDB's, Feeder pillar.
- Design, Manufacturing & Supply of MV Panels up to 11 KV.
- Design, Manufacturing & Supply of all kinds of Motor Control Center both draw-out and fixed type.
- Design, Manufacturing & Supply of all kinds of Electrical Control Panels for, AHU, HVAC, Furnace and Process Plants.
- Design, Manufacturing & Supply of specialized panel such as AMF panel, changeover panels , VFD panels & APFC panels.

List of Products

- Design, Manufacturing & Supply of DG & Grid synchronizing panels.
- Design, Manufacturing & Supply of all kinds of Bus Ducts between Transformer & PCC .
- Design, Manufacturing & Supply of Bus Ducts for Internal power distribution system.
- Design, Manufacturing & Supply of Instrument Transformers (CT's and PT's)
- Design, Manufacturing & Supply of Control & Lighting Transformer up to 10 KVA.

Industries Segment Served

- Power Sector
- Steel Industries
- Oil Refineries
- Effluent treatment Plants
- Textile Industries.
- Chemical Industries.
- Solar Plants
- Communication Industry
- Hospitality Industry
- And many more….

CNC Turret Punch Press

Make : Amada
Capacity : 200KN
Type : AE2510NT
Power : 40KVA
LXWXH : 4152X5120X2082,3028

Manufacturing Facilities

Amada CNC Bending Machine, type RGM

Spot Welding Machine

Manufacturing Facilities

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Busbar Cutting, Punching, Bending M e

Busbar Bending Machine

Manufacturing Facilities

Powder Coating Oven

Capacity : [L x W x H]
3000m x 2300mm x 2400mm
Max Temp: 200°C

Powder Coating Spray Booth

Capacity: [L x W x H]
2700mm x 1900mm x 3000mm

Manufacturing Facilities

Powder Coating

I. Steel sheet surface treatment by seven tank process
II. Test laboratory

Fabrication - Other

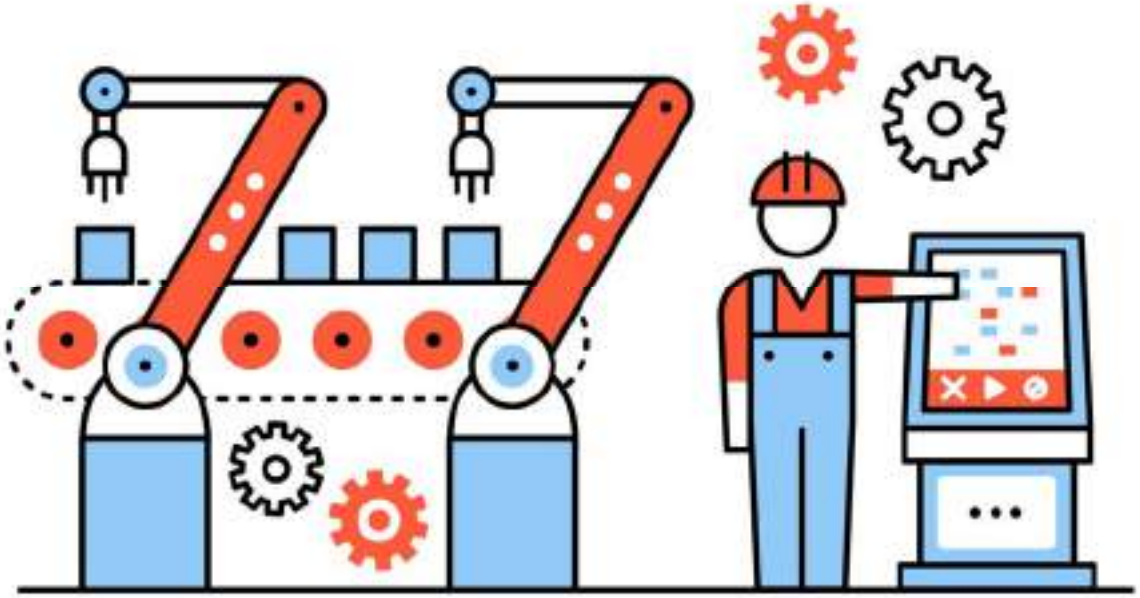
I. Power Press - 80T
II. Radial Drilling Machines
III. Welding Machines

Assembly

I. Pre-Assembly of Bus bar
II. Components mounting and assembly
III. Power and control wiring

CT /PT

I. Transformer Winding Machine
II. Vacuum Epoxy Resin Casting Plant



We are Authorised Franchisee of L&T

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1. For PCC, MCC, APFC.
2. Compliance to IEC-61439 Part-1 & 2Totally Type Tested Assembly Ti panel.
3. L&T Ti design is Type- Tested & Assembled as per IEC-61439.
4. We are also authorized Franchisee for MV Panels up to 11KV 2000A

Testing Facilities

1. Primary & Secondary Injection test kit: 0 -100A for relay testing
2. Instruments transformers test bridge: Amber IXR 2000
3. Standard Current Transformer :1KVA,0.1class,3200/5A,15A-440V
4. Three phase & single phase dimmer : 15A/2A,0-270V,50/60Hz. V.
5. Step up transformer : 0-1500V
6. HV tester : 0-5Kv & 0-100KV
7. Insulation tester : 1000V & 5000V, 500Mohm
8. Digital Micro-ohmmeter : 1999Microhm-19.99kOhm
9. AC Voltmeter : 0-600V, 0.2class

Testing Facilities

10. AC Ammeter : 0-100A
11. Polarity tester
12. Standard PT : 11kv/6.6kv
13. PT Burden Box : 200VA
14. High Frequency Generator Set. : 150 Hz.
15. HV tester : 0-5Kv & 0-100KV
16. 11KV PT Testing Panel
17. Digital Multi meter : AC/DC Volt/A
18. Digital Coating Thickness Gauge : 0-1500 Microns

Our Esteemed Customers

BHARAT ENGINEERS
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Reliance Industries Limited

GUJARAT STATE FERTILIZERS & CHEMICALS LTD.

ESSAR

EMERSON

GACL
Promoting Green Technology

L&T Power

T.D. Williamson
Pipeline Performance™

ADITYA BIRLA
BIRLA COPPER

Filatex India Limited

GFL
GUJARAT FLUOROCHEMICALS LIMITED

ABG

Shree Krishna Hospital

KEC
KEC INTERNATIONAL LIMITED

ALSTOM

Certificate

TRANSPACIFIC CERTIFICATIONS LIMITED

TCL

Certificate of Registration

This is to certify that

Quality Management System

of

BHARAT ENGINEERS

complies with the requirements of

ISO 9001:2015

This certificate is valid concerning all activities related to:

Manufacture and Supply of Electrical Switch Boards, Power Control Centre, Motor Control Centre, Contact and Relay Panels, Wall Ducts, Distribution Boards, Enclosures, Marshalling Box, Instruments Transformers, Current Transformers and Potential Transformers.

NACE Code: 3950

12343	Nov. 24, 2018	Nov. 23, 2021
Certificate No.	Date of this Certificate	Next Audit Due Date
Nov. 24, 2016	Nov. 23, 2019	
Date of Initial Registration	Certificate Expiry Date	Managing Director/Director

IAF

TRANSPACIFIC CERTIFICATIONS LIMITED

LARSEN & TOUBRO

L&T SWITCHGEAR

Certificate of Appointment

Bharat Engineers, Vadodara

is appointed as Franchise up to 22 November 2019
for manufacture and sale of Low Voltage Switchgear & Controlgear
assemblies in Ti design conforming to L&T's design and manufacturing
guidelines with L&T supplied components & switchgear products.

Ti design is a fully type tested assembly in accordance with IEC 61439
for Low Voltage Switchgear & Controlgear assembly.

L&T Electrical & Automation

Vice President - Electrical Standard Products

Certificate

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

TEST REPORT

SHEET 01 OF 01

NAME AND ADDRESS OF CUSTOMER	TEST REPORT NO.: RP-1415-034334 DATE: 05/12/2014	
BHARAT ENGINEERS 290/2, GIDC MAKARPURA, VADODARA-390 010.	CUSTOMER REF. NO.	DATED
	88/ERDA/DPB	01/12/2014
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	01/12/2014	04/12/2014 to 05/12/2014
SAMPLE DESCRIPTION	SAMPLE IDENTIFICATION	
POWER DISTRIBUTION PANEL Rating: Rated Voltage: 415V Rated Insulation Voltage: 660V Containing: MP Isolator: 1 no. MCCB: 3 nos. MCB: 18 nos.	ERDA Sample Code No.: ERDA0067233 Drg. No.: a) BC-760 (REV. 01) (SHEET NO. 01 of 01) b) BB-766 (REV. 01) (SHEET NO. 01 of 01) (Total 2 sheets)	
TEST DETAILS	TEST SPECIFICATION	
5.0 IP 65 tests	Cl. No. 10.3 of IEC 61439-1:2011	

Enclosures: 1) Oscillogram No.: Nil
2) Photograph No.: ERDA-00067233/1 to 4
3) Drg. No.: a) BB-760 (REV. 01) (SHEET NO. 01 of 01)
b) BB-766 (REV. 01) (SHEET NO. 01 of 01) (Total 2 sheets)

Test witnessed by: Mr. Narendra R. Solanki (Production Engineer) of M/s. Bharat Engineers, Vadodara.

Remarks: Sample conforms to the requirement of IP 65 tests as per the standard.

PREPARED BY | CHECKED BY | APPROVED BY

Central Power Research Institute

TEST REPORT

Certificate

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

TEST REPORT

SHEET 1 OF 2

NAME & ADDRESS OF CUSTOMER	REPORT No.: PLV/0/0C/1564
BHARAT ENGINEERS, 200/2, EDC, MAKARPURA, BARODA-390010.	DATE: [illegible]
	CUSTOMER REF. NO.: NIL / DATE: [illegible]
	DATE OF SAMPLE RECEIPT: [illegible] / DATE OF TESTING: [illegible]

SAMPLE DESCRIPTION
LT PANEL 2000 A
Rated Operational Voltage (Ue) : 415V
Rated Operational Current (Ie) : 3200A
Rated Insulation Voltage (Ui) : 1000V
Rated Frequency : 50 Hz.
No. of Poles : Three + Neutral
Rated short time withstand current & its duration
- 50 kAmps for 1 sec. with an initial peak of 141 kA between phases
- 20kAmps for 1 sec. with an initial peak of 43 kA between adjacent phase and neutral
Quantity (Tested) : 1 No.
Further details as per sheet No. 2 of 2

SAMPLE IDENTIFICATION
ERDA ID. NO.: LSGEA10047(1.0)
SR. NO.: 1 279
DRAWING NO.
ROUREV. 1 SHEET NO. 01
ROUREV. 1 SHEET NO. 02
ANUREV. 1 SHEET NO. 03

TEST DETAILS
Verification of the short circuit withstand Strength of L.V. No. 82.2.3.

TEST SPECIFICATION
IEC: 60439-1 (2004-08)

ENCLOSURES:
NUMBER OF DISCE LOGRAM : TWO
NUMBER OF PHOTOGRAPH : ONE
NUMBER OF TEST CIRCUIT DIAGRAM : TWO
NUMBER OF DRAWINGS : THREE

TEST WITNESSED BY: SAUDHAVAL PARIKH.

REMARKS: The sample conforms to the requirements of verification of the short circuit withstand strength as per the standard.

PREPARED BY / CHECKED BY / APPROVED BY

TE 0163044

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

TEST REPORT

SHEET 1 OF 2

NAME AND ADDRESS OF CUSTOMER	TEST REPORT NO: LPM/LPMP DATE: [illegible]
BHARAT ENGINEERS 200/2, EDC, MAKARPURA, VADODARA - 390010.	CUSTOMER REF. NO.: 0/ORDA/TP54/L2 / DATE: 27/05/2011
	DATE OF SAMPLE RECEIPT: 17/05/2011 / DATE OF TESTING: 23/05/2011 to 28/05/2011

SAMPLE DESCRIPTION
TYPICAL INDOOR TYPE PANEL
Certificate: (253 PCCB, 63A MCB)

SAMPLE IDENTIFICATION
ERDA Sample Code No: LSWGC0061(764/0)
Dwg. No.: BE-429-02 (Sheet 1 of 1)
Sr. No.: 01

TEST DETAILS
1.0 IP 54 (category 2) tests

TEST SPECIFICATION
IEC 60439-1:2004

Enclosures: DRG. No.: BE 429-02 (Sheet 1 of 1)

Test Witnessed By: Mr. Himas Ashok Kumar of M/s. Bharat Engineers, Vadodara.

Remarks: Sample conforms to the requirement of IP 54 (Category 2) test as per the Standard.

Prepared by / Checked by / Approved by

Note: 1. This report relates only to the particular sample tested/to batch to which particular sample belongs.
2. The report cannot be reproduced in part without any correspondence.
3. Publication of this report requires prior permission in writing from ERDA, INDIA.
4. Only the tests asked for by the customer have been carried out.

TE 0532196

Certificate

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

PROVISIONAL REPORT

DATE: 06/05/2016

To,
BHARAT ENGINEERS
[illegible]
VADODARA 390016.

1) Details of Equipment: **MCC PANEL**
Containing: On Lamp - 06 Nos. - Red
Off Lamp - 05 Nos. - Green, Trip Lamp - 05 Nos. - Amber
ON Push Button - 06 Nos., OFF Push Button - 03 Nos.
Vertical Copper Busbar (3X10), Horizontal copper busbar (40X8)
Contactor - 105 A - Make Schneider - 01 Nos.
Contactor - 60 A - Make Schneider - 01 Nos.
Contactor - 25 A - Make Schneider - 02 Nos.
Contactor - 40 A - Make Schneider - 04 Nos.
MPCB - 1-14 A - Make Schneider - 02 Nos.
MPCB - 1.0-2.5 A - Make Schneider - 02 Nos.
MCB - 6A - Make Schneider - 03 Nos.
Dr. No.: [illegible]
Drg. No.: 00-1036 (Rev.01) (Sheet No. 01) (Total sheet 01)
Manufactured by: M/s. Bharat Engineers, Vadodara
ERDA Sample Code No: ERDA/[illegible]

2) Reference standard : IEC 60439-1 & 2 - 2011
3) Test Conducted : Internal Separation Test (Part 2a)
4) Sample received on : [illegible]
5) Customer Ref. No. & Dated : [illegible] & dated 05/05/2016
6) Date of testing : 05/05/2016
7) Test witnessed by : Mr. Nanubhai P. Solanki of M/s. Bharat Engineers, Vadodara
Note: Only the test asked for by the customer has been carried out.
8) Remarks : Sample **conforms** to the requirement of standard for the test carried out.

PREPARED BY | CHECKED BY | (G.SOM) APPROVED BY

Note: This report is purely informative. The results details are not binding on testing authority. All test report [illegible]

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

TEST REPORT

Sheet: 1 of 2

NAME AND ADDRESS OF CUSTOMER	TEST REPORT NO: LPS/2060 DATE: 16/05/2011	
BHARAT ENGINEERS [illegible] MANJUSUA, VADODARA – 390010	CUSTOMER REF. NO.: [illegible]	DATE: [illegible]
	DATE OF SAMPLE RECEIPT: 17/01/2011	DATE OF TESTING: 17/01/2011 to 18/01/2011
SAMPLE DESCRIPTION	**SAMPLE IDENTIFICATION**	
TYPICAL OUTDOOR TYPE PANEL **Containing:** 125A MCCB, 63A MCB	**ERDA Sample Code No:** LSWG0808327642/02 **Drg. No.:** 00-429-01 (Sheet 1 of 1) **Sr. No.:** Nil	
TEST DETAILS	**TEST SPECIFICATION**	
1.0 IP 55 (Category 2) tests	IEC 60439-1 2004	

Enclosure: Drg. No.: 00-429-01 (Sheet 1 of 1)

Test witnessed By: Mr. Hitesh Kumar of M/s. Bharat Engineers, Vadodara.

Remarks: Sample conforms to the requirement of IP 55 (Category 2) test as per the Standard.

Prepared by | Checked by | Approved by

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. Authenticity of this report requires prior permission in writing from Director, ERDA.
4. Only the tests asked for by the customer have been carried out.

TE 0632192

Provisional Consent Order (CCA)

Consent No. AWH-108394 Valid upto: 31/03/2025

Gujarat Pollution Control Board
Paryavaran Bhavan, Sector-10/A,
Gandhinagar - 382010
Tele : 23222756

Application : CtO:CCA-Fresh, No. 174422 Dt. 21/05/2020, Granted On: 18/06/2020 | **PCB Id:75383**

Besides streamlining and simplifying of regulatory regime,Gujarat Pollution Control Board has taken initiative in from of introduction o Consolidated Consent and Authorization (CC&A) which provides for a one shot application and clearance of the consents under Water Act,Air Act and Authorization under Hazardous Wastes Rules for a period of 5 years.
Board issues consolidated consent and Authorization to an industrial unit for operation of plant/carrying out industrial activity specifying following conditions.

Consolidated Consent and Authorisation

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of th Air (Prevention and Control of Pollution)Act-1981
and Authorization under rule 3(c)& 5(5)of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules'2008 framed under the E(P)Act-1986.
And whereas Board has received consolidated Application No.(CtO:CCA-Fresh) 174422 and Dated 21/05/2020 for the consolidated consent and authorization(CC&A) of this Board under the provisions / rules of the aforesaid Acts Consent & Authorization is hereby granted as under.

CONSENT AND AUTHORISATION : (under the provisions / rules of the aforesaid environmental acts)

To,
M/s. Bharat Engineers,
290/2,,
GIDC Makarpura,City : Makarpura,
Dist : Vadodara, Tal : Vadodara, SIDC : Makarpura
Phone : 0265-2645006

1. Consent Order No: AWH-108394 **Valid Upto:** 31/03/2025

2. All Conditions under the AIR ACT-1981 WATER ACT-1974 HAZARDOUS ACT-2008 shall be Applicable to you as mentioned in the detailed Consent Order ***

Consented CETP: Not Linked to any CETP
Consented TSDF: Not Regd with any TSDF

3. GENERAL CONDITIONS :-

a) This order is provisional order and detailed order is considered as final.
b) All the conditions & provisions under the Water Act 1974, the Air Act 1981 and the Environment (Protection) Act – 1986 and the rules made there under shall be complied with *.
c) All the conditions & provisions under the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules 2008 as amended shall be complied
d) The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
e) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75dB(A) during day time and 70dB(A) during night time. Daytime is reckoned in between 6 a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.
f) In case of change of ownership/management the name and address of the new owners/ partners/ directors/ proprietor or equipment or working conditions as mentioned in the consents form / order should immediately be intimated to the Board.
g) Industry shall have to display data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emissions and solid hazardous wastes generated within the factory premises.
h) The CCA shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.
i) Any unauthorized change in personnel, equipment or working conditions as mentioned in the CCA order by CCA holder shall constitute a breach of this CCA.
j) Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is atleast 1000 trees per acre of land and a green belt of 5 meters width is developed.
K) The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act- 1977.

***** Note : ACT-Specific, Industry-specific, Area-specific Conditions alongwith Product, Waste water effluent details shall be precisely mentioned in the DETAILED Consent Order.**

***** Note :This is only provisional communication. The final Consent/Authorization in hard copy with duly signed by competent authority shall the final and valid Consent/Authorization.**

For and on behalf of
Gujarat Pollution Control Board

(Member Secretary)

Certificate

This is to certify that

Bharat Engineers

DECLARE AS WINNER OF

ELECTRICAL PRODUCTS

and has admitted as Corporate Member of This Trust

May 10, 2015
Date of Issue

President

Secretary

Quality Mark Trust

Products

Products

Contact Us

Address:

M/s Bharat Engineers
290/2, GIDC Makarpura,
Baroda-390010, Gujarat

Phone : 0265 2645006
Telefax : 0265 2645006
Mobile : +91-9879017654
Email : bharat_engrs@yahoo.com
Website : www.bharatengrs.com

thank you
danke
謝謝
ngiyabonga
teşekkür ederim
gracias
tapadh leat
спасибо
bedankt
dziękuję
obrigado
sukriya
kop khun krap
go raibh maith agat
mochchakkeram
arigatô
takk
dakujem
merci
grazie
terima kasih
감사합니다
ευχαριστώ
мерси
рахмат
Баярлалаа
hvala
mauruuru
sagolun
taiku
dank je
merci