

Power Engineers

Testing and Consulting Engineers

I-2, 2ND Floor, Bajson Co-Op.Industrial Estate,
Chakala Rd, Andheri (E), Mumbai – 400 099

Tel: 66926243 Tel/Fax: 66926244
Email: power_engineers@vsnl.net

The main areas of our expertise are listed below.

Field services :

- Protective relays calibration and testing.
- Cable fault locations (Pin pointing)
- Cable and switchgears high voltage testing at site.
- Planned maintenance programs
- Diagnostic and predictive maintenance of HV & EHV equipment's.
- Acceptance testing (complete commissioning of electrical systems (400 KV AC & 500 KV DC) including testing of transformers , generators , breakers , motors etc.
- SCADA systems
- Thermographic survey

Engineering services :

- Relay co-ordinations, Short circuit studies , Load flow analysis etc.
- Load monitoring and plotting switching cycles.
- Energy and technical audits.
- Harmonic analysis
- Analysis of dissolved gases in working transformer and predicting a likely fault
- Power quality surveys

Consultancy services :

- Complete design , tender specifications , vendor selections , short listing contractors connected with industrial / commercial establishments.
- Detailed engineering services (electrical + low voltage instrumentation)
- Energy saving studies.
- Survey's for revamping existing systems to suit changed business requirements for the clients.
- BMS specifications and implementation.
- All Security systems like Fire detection , P.A. cum music system , CCTV Monitoring System , Access control , Audio video conferencing facility, Gas fire suppression system, Pre-Action System, Fire Sprinkler System, Water Leak Detection etc.
- Passive Networking – design & implementation
- Data Center – planning & implementation

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PROJECTS REVIEW

Testing & Commissioning Works

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Some of our most satisfied customers as related to our continued service in testing and commissioning activity

- M/s Reliance Energy Ltd. Testing agency for all their projects in India and abroad inclusive of all their energy , technical audits and relay co ordinations
- M/s Crompton Greaves Ltd. Testing agency for all their projects in western India
- M/s Bharat Bijlee Ltd Testing and commissioning engineers for all their projects in India and for power quality solutions
- M/s Narmada Cements For annual diagnostic and predictive maintenance of all their plants.
- M/s Raymond Cements For annual diagnostic and predictive maintenance of all their plants. Relay Co – ordinations.
- M/s Ambuja Cements Commissioning most of their switchyards thro' BBL
- Bhutan Electricity Board Through other contracting agencies
- Hindustan Paper Corpn. Assam Through other contracting agencies
- ONGC offshore platforms Through other contracting agencies BSES Ltd., Keltron , BHEL, Wier , Dolphin , RK inst.
- BMC For their breakdown in the EHV system and annual relay testing , calibration and co – ordination work.
- BOC India Limited Testing and Commissioning of 100 KV Switchyard equipments
- Asahi India Glass Ltd. Dismantling, re-erection, Installation & Commissioning of Electrical equipments at their Talaja works .
- Schenectady Herdillia Energy audit, calibration of electrical instrumentation and co – ordination work.

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CROMPTON GREAVES LTD.

- 6 bays 132 KV switchyard at BMC Panjrapur Pise water pumping stations
- 10 bays 132 KV switchyard at GIPCL Baroda (POWER PIANT)
- 500 MW, 400 KV transformers at NTPC Dadri and Banglore
- 2 bay 220 KV switchyard at ISSAL Jejuri Maharashtra.
- 2 bay 220 KV switchyard at Maharashtra Seamless Nagothane
- 3 bay 132 KV switchyard at Finolex Pipes Ratnagiri.
- 2 bays 132 kV switchyard at Diamond Cements at Damoh.
- 2 bays 132 KV switchyard at Saurashtra Cements, Porbunder.
- 1 bay 66 KV switchyard IPCL Dehaj Baruch.

BHARAT BIJLEE LTD.

- Construction Power IPCL Naghotane.
- 132 KV switchyards at the following Cement plants.
 - a) Vikram Cements
 - b) JK cements.
 - c) Indian Acrylic Singore
 - d) Rajshree cements
 - e) Ambuja cements
 - f) JP cements Rewa.
 - g) Grasim Cements, Raipur.
 - h) Grasim cements, Chitorghad.
 - i) Sirpur Paper mills.
 - j) Singaroni Coalries , Ramagundam.
 - k) Narmada Cements, Jafrabad.
 - l) JK Sugars Bareilly Gen system
 - m) ICL sugars Mysore Gen system
 - n) Rayalseema Power Plant.
 - o) Renuka sugars , Belgaum Gen system
 - p) Triveni Engineering , Khatauli , U.P
 - q) India Glycols Ltd. , Kashipur , Uttaranchal
 - r) SBEC Sugars, Malakpur, U.P.

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RELIANCE ENERGY / BSES LTD.,

(We are associated with most of the BSES projects some of which are as listed below)

- **Testing of 132 KV GIS and associated 11 KV systems at Dubai for DEWA (Jebel Ali , Emirates and Jafsa S/S)**
- **Testing of 132 KV GIS and associated 11 KV systems at Kayamkulam in Kerla**
- 220 KV switchyards at Singegaon Bhutan
- HT system for U/G network at Thimpu & Paro Bhutan
- 220 KV switchyards at NDIL Nagpur.
- 220 KV switchyards and downstream at NDIL Pen.
- 220 KV's switchyard equipment testing and 33 KV, 10 - panel board & associated switchgears for power station at Versova, Mumbai
- **Testing & Commissioning of 400/220 kV Switchyard in Khandwa for Jyoti Structures.**
- **Testing of 132 KV and associated 66 KV Switchyard in Karnataka for Transmission Board .**
- **System checking of all electrical systems at**
 - IFFCO Jagdishpur
 - NFL Bijapur
 - TISCO Jamshedpur.
 - Sunflag steel Bandara.
 - Cochin Refineries
 - 33 KV switchyard construction power at BSES Ltd. Dahanu.
 - 220 KV's switchyard equipment testing and 6.6 KV associated switchgears for 2* 250 MW power station at Dahanu.
 - 66 KV switchyard and associated systems at RBI Mysore.
 - 132 KV switchyard at IOL Taloja.
 - RBI , Mysore
 - 220 KV switchyards at Jindal Bellary
 - 500 KV DC / 400 KV AC Converter station at Padghe .
 - Emergency testing engineers deployment at BSES Kerala Power project to complete the project on time.
 - Revamping work at BHN platform at ONGC.
 - 100MVA TRF Single Bay Extension at BSES, Aarey , Mumbai
 - Testing & Commissioning of 33 KV, 20 Panel board at Aarey, Mumbai

We extend our services to major electrical manufacturers in Dubai and south Africa.

We are also associated with Reliance Energy for the 'Annual preventive maintenance' work being done by them in Mumbai. We are value added service provider for them. We diagnose faults , carry out relay testing and co-ordinations work , suggest modifications in the system for proper operations of the system , energy audits for any of their client's etc.

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PROJECTS REVIEW Design Consultancy Works

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INDUSTRIAL PROJECTS:

Main Power Station : (For MSEB) 2005 - 2006

- Designing & commissioning of 22 / 11 KV – 2 Bay (Outdoor Switchyard) - 1 x 5 MVA + 1 x 10 MVA Transformers along with 11 KV Switchgear indoor panels at Marigold Complex, Kalyani Nagar, Pune.
- Designing & commissioning of 22 / 11 KV – 6 Bay (Outdoor Switchyard) - 2 x 10 MVA Transformers along with 11 KV Switchgear indoor panels at Weikfield , Viman Nagar, Pune.

L.H. SUGARS PHILIBIT U.P. 2005

- Turnkey project inclusive of Consultancy .design, supply & commissioning of Co generation project of 15 MW at 11 KV system along with all generation , 11 KV switchgear . 132 KV switchyard equipment and all synchronizing systems.

BAJAJ ELECTRICALS.2005

- Consultancy for design . testing and commissioning of 1 x 50 MVA 200 KV switchyard along with all associated equipments , 11 KV boards , for Bokharo Steel Plant .
- We are the service providers as related to Electrical system designs to Bharat Bijlee Ltd., ABB Sweden , Non Standard designs ONGC etc.

K M . SUGARS FAIZABAD U.P. 2006

- Turnkey project inclusive of Consultancy .design, supply & commissioning of 32 MW Co generation project at 11 KV system along with all generation , 11 KV switchgear . 132 KV switchyard equipment and all synchronizing systems.

PARLE G SUGARS PARSENDI U.P. 2006

- Turnkey project inclusive of Consultancy .design, supply & commissioning of 15 MW Co generation project at 11 KV system along with all generation , 11 KV switchgear . 132 KV switchyard equipment and all synchronizing systems.

A . B . SUGARS HOSIARPUR LUDHIANA PUNJAB 2006

- Turnkey project inclusive of Consultancy .design, supply & commissioning of 25 MW Co generation project of 25 MW at 11 KV system along with all generation , 11 KV switchgear . 132 KV switchyard equipment and all synchronizing systems.

INDIAN SURCOSE MUKARIA PUNJAB 2006

- Turnkey project inclusive of Consultancy .design, supply & commissioning of 25 MW Co generation project of 25 MW at 11 KV system along with all generation , 11 KV switchgear . 132 KV switchyard equipment and all synchronizing systems.

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PFIZER THURBE , MUMBAI. 2006

- Consultancy for design . testing and commissioning of 2 x 2.5 MVA Transformers , 11 KV boards , complete revamp of their existing production plant at Thurbe , New Mumbai.

HINDALCO, TALOJA 2006

- Consultancy for preliminary design of 2 x 20 MVA 220 KV switchyard along with all associated equipments , 11 KV boards , 4 x 2.5 MVA 11 KV / 433 V transformers along with all associated LT panels , cabling upto each electrical equipment. At Taloja Thane near Mumbai.

A B GRAINS (BIOMASS BASED POWER PLANT) GURDASPUR, PUNJAB 2007

- Turnkey project inclusive of Consultancy .design, supply & commissioning of 20 MW Co generation project at 11 KV system along with all generation , 11 KV switchgear . 66 KV switchyard equipment and all synchronizing systems.

CHEDDA SUGARS (BAGASSE BASED CO-GEN PLANT), U.P. 2007

- Turnkey project inclusive of Consultancy .design, supply & commissioning of 37.5 MW Co generation project at 11 KV system along with all generation , 11 KV switchgear . 132 KV switchyard equipment and all synchronizing systems.

L.H. SUGARS (PHASE-II) PHILIBIT U.P. 2007

- Turnkey project inclusive of Consultancy .design, supply & commissioning of Co generation project of 22 MW at 11 KV system along with all generation , 11 KV switchgear . 132 KV switchyard equipment and all synchronizing systems.
- Detailed engineering of electrical system for new expansion process plant

JINDAL SAW - MUNDRA , BHUJ-GUJARAT 2008

- Turnkey project inclusive of Consultancy .design, supply & commissioning of Co generation project of 20 MW at 11 KV system along with all generation , 11 KV switchgear . 66 KV switchyard equipment and all synchronizing systems.

JINDAL SAW – SINNAR, NASIK 2008

- Turnkey project inclusive of Consultancy .design, supply & commissioning of project of 16 MVA at 132/11 KV system along with 11 KV switchgear . 132 KV switchyard equipment .

SVIL MINES - KATNI 2008

- Turnkey project inclusive of Consultancy .design, supply & commissioning of Factory premises project for manufacture of Italian Marbles – total load – 10MVA .

MARMO CLASSIC - SILVASSA 2008

- Turnkey project inclusive of Consultancy .design, of Factory premises project for manufacture of Granite & Marbles – total load – 5MVA .

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We are associated with....

***M/s Vascon Engineers Ltd.**
One of the major builder in Pune,

We are their electrical consultant for most of their projects in Pune , Belgaum,
Nasik and Goa.

***M/s Prozone Enterprises**
(Provoque Group) .
Major Infrastructural Developer,

We are the LEAD electrical consultants for their upcoming projects in
Aurangabad, Indore , Mumbai .

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List of on going projects clients for consultancy: Electrical , Raw / UPS power, FAS, ACS ,
Sprinklers, CCTV , Video conferencing, Passive networking facilities etc.

COMMERCIAL BUILDINGS :

<u>INFRASTRUCTURAL PROJECTS :</u>		
*HSDI (HSBC)	<u>Infotech Park</u> total area 12000 sq. M	Hyderabad-Banjara Hills
*HSDI (HSBC)	<u>Infotech Park</u> total area 15000 sq. M	Kalyani Nagar - Pune
*Glaxo	<u>Office Bldg.</u> total area 7500 sq. M	Worli-Mumbai
*Food-Land	<u>Catering Center</u> total area 2500 sq. M	Thane-Mumbai
*Cipla (R&D Centre)	<u>Chest Research Centre</u> total area 1000 sq. M	Marigold Complex, Kalyani Nagar - Pune
*Marisoft 1 (M-Phasis)	<u>Infotech Park</u> total area 8000 sq. M	Marigold Complex, Kalyani Nagar - Pune
*Marisoft 2 (PTC)	<u>Software Park</u> total area 12000 sq. M	Marigold Complex, Kalyani Nagar - Pune
*Marisoft 3	<u>Software Park</u> total area 35000 sq. M	Marigold Complex, Kalyani Nagar - Pune
*Marisoft 4 (<u>'C' BLDG.-VENTURA</u>)	<u>Software Park</u> total area 17500 sq. M	Kalyani Nagar - Pune
*Marisoft 4 (<u>'A' BLDG.-LIFESTYLE & ORCHID HOTEL</u>)	<u>Software Park</u> total area 15000 sq. M	Kalyani Nagar - Pune
*Mariplex (<u>Multiplex + Shopping Complex</u>)	<u>Software Park</u> total area 12500 sq. M	Marigold Complex, Kalyani Nagar - Pune
*Nucleus (<u>Commercial & Shopping Complex</u>)	<u>Commercial & Shopping Complex</u> total area 25000 sq. M	Camp - Pune
*Golden Nest (<u>SERVICE APARTMENT BLDG.</u>)	<u>Service Apartment Bldg.</u> total area 5000 sq. M	Kalyani Nagar - Pune

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*Big Bazar	<u>Commercial & Shopping Complex</u>	Khanapur Rd - Belgaum
<u>(Shopping & Commercial Bldg.)</u>	total area 6000 sq. M	
*Symbiosis	<u>Institutional Bldg</u>	Viman Nagar - Pune
<u>(INSTITUTIONAL CAMPUS)</u>	total area 3x10000 sq. M	
*Almonte	<u>IT & Shopping Complex</u>	Kharadi - Pune
<u>(IT Park + Shopping Complex)</u>	total area 21000 sq. M	
*Phoneix - Hinjewadi	<u>Service Apartment Bldg.</u>	Hinjewadi - Pune
<u>(SERVICE APARTMENT BLDG.)</u>	total area 6000 sq. M	

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INTERIOR PROJECTS :

*Nucleus Software	<u>Software Park</u>	Marigold Complex, Kalyani Nagar
	total area 4000 sq. M	
*Cybage (Ph-I)	<u>Software Park</u>	Marigold Complex, Kalyani Nagar
	total area 3500 sq. M	
*Cybage (Ph-II)	<u>Software Park</u>	Marigold Complex, Kalyani Nagar
	total area 2500 sq. M	
*Cummins (Ph-I)	<u>Software Park</u>	Marigold Complex, Kalyani Nagar
	total area 3500 sq. M	
*Cummins (Ph-II)	<u>Software Park</u>	Marigold Complex, Kalyani Nagar
	total area 2500 sq. M	
*S1-Services (Ph-I)	<u>Software Park</u>	Marigold Complex, Kalyani Nagar
	total area 2500 sq. M	
*S1-Services (Ph-II)	<u>Software Park</u>	Marigold Complex, Kalyani Nagar
	total area 2500 sq. M	
*Saama Tech (Ph-I)	<u>Software Park</u>	Marigold Complex, Kalyani Nagar
	total area 2500 sq. M	
*Suzlon Energy	<u>Software Park</u>	Weikfield IT CITI Park
	total area 3500 sq. M	
*Mindcrest	<u>Software Park</u>	Weikfield IT CITI Park
	total area 3500 sq. M	
*Whirlpool (Ph-I)	<u>Software Park</u>	Weikfield IT CITI Park
	total area 3500 sq. M	
*DMRI -Mumbai	<u>Drug Monitoring Research Institute</u>	Mhape-Mumbai
	total area 6000 sq. M	
*Symbiosis-ICC (Ph-I & II)	<u>Corporate Training Center</u>	ICC Center - Pune
	total area 1100 sq. M	
*SAAMA (Ph-II)	<u>Software Park</u>	Weikfield IT CITI Park
	total area 2500 sq. M	
*AAM	<u>Software Park</u>	Weikfield IT CITI Park
	total area 2400 sq. M	

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*Cyquator	<u>Software Park</u>	Weikfield IT CITI Park
	total area 2500 sq. M	
*Whirlpool (Ph-II)	<u>Software Park</u>	Weikfield IT CITI Park
	total area 1000 sq. M	
*Vastech	<u>Software Park</u>	Weikfield IT CITI Park
	total area 1500 sq. M	
* ING @ Windsor	<u>Bank & Dealing Sector</u>	<u>Windsor - Santacruz</u>
	total area 2500 sq. M	
*Sasol India LTd.	<u>Software Park</u>	BKC @ Mumbai
	total area 1000 sq. M	
* Deutsche Bank	<u>Bank & Dealing Sector</u>	<u>Aundh-Pune</u>
	total area 1000 sq. M	

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RESIDENTIAL PROJECTS :

*Redwood	11 story with 32 flat total area 5000 sq. M	Marigold Complex, Kalyani Nagar - Pune
*Casaurina	11 story with 32 flat total area 5000 sq. M	Marigold Complex, Kalyani Nagar - Pune
*Cypress	11 story with 32 flat total area 5000 sq. M	Marigold Complex, Kalyani Nagar - Pune
*Pecan	11 story with 32 flat total area 5000 sq. M	Marigold Complex, Kalyani Nagar - Pune
*Palladium	12 story with 20 flat total area 6000 sq. M	Mangaldas Rd-Pune
*Paradise Complex	<u>Row Houses</u>	Baner-Pune
*Golden Nest	3 x 9 story with 180 flats total area 3 X 5000 sq. M	Kalyani Nagar - Pune
*IVY-Glen	4 x 10 story with 40 flats	Marigold Complex, Kalyani Nagar - Pune
*Kirloskarwadi	<u>Residential Complex</u> total area 100 Acres	Kirloskarwadi-Sangli
*Forest Hills	<u>Residential & Commercial Complex</u>	Kharadi - Pune
<u>(Residential & Commercial Complex)</u>	total area 26000 sq. M	

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ON-GOING PROJECTS :		
<u>Infrastructural projects :</u>		
* Suzlon Corporate Campus (Corp. block + Corp. Learning centre)	<u>IT & Technology Centre</u> total area 650000 sq. M	Hadapsar - Pune
* Narendra Plastics (Plastic Industry)	<u>Factory Premises</u>	Uttaranchal Pradesh
*Empire Mall (Prozone) (Multiplex + Shopping + Commercial Bldg.)	<u>Commercial & Shopping Complex</u> total area 70000 sq. M	Aurangabad
*Zenith (Multiplex + Shopping + Commercial Bldg.)	<u>Commercial & Shopping Complex</u> total area 40000 sq. M	Kharadi - Pune
*V'Tech Park (IT Park)-'A' + 'B' Bldg.	<u>IT Complex</u> total area 2 X 20000 sq. M	Nasik
*V'Tech Park (IT Park + Shopping Complex) -'C' Bldg.	<u>IT & Shopping Complex</u> total area 1 X 15000 sq. M	Nasik
*Phoneix - Hinjewadi (IT Park)-'A' + 'B' Bldg.	<u>Service Apartment Bldg.</u> total area 2 X 20000 sq. M	Hinjewadi - Pune
*Marisoft 4 ('B' BLDG.-I.T. BLOCK)	<u>Software Park</u> total area 23500 sq. M	Kalyani Nagar - Pune
*Nucleus'-Multiplex Shopping Complex &	<u>Multiplex & Shopping Complex</u> total area 21500 sq. M	Khanapur Rd - Belgaum
*Marigold-Goa (Hotel project)	<u>Hotel Building.</u> total area 6000 sq. M	Goa
*Symbiosis @ Lavale (INSTITUTIONAL CAMPUS)	<u>Engineering College</u> total area 6000 sq. M	Lavale- Pune
*Symbiosis (Hostel Bldg.)	<u>Hostel Building</u> total area 5000 sq. M	Viman Nagar - Pune

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*'Willos' Residential Complex	<u>High Rise Buildings</u>	Balewadi-Pune
	total area 7.2 Acres	
*'Vista' - High Rise Buildings (Ph-I)	Residential Complex	Nasik
	total area 5.0 Acres	
*India Infoline @ India Bulls	<u>Software Park</u>	India Bulls-Parel
	total area 2500 sq. M	

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List of equipments available with us.

Sr.No.	Description	Make	Qty.
1.	High voltage test kit 0 - 40 KV D.C.	Sai electricals	1 no.
2.	High voltage test kit 0 - 60 KV D.C.	S.E.V.	1 no.
3.	Secondary injection kit 0 - 100 A	Programma	3 nos.
4.	Primary injection trans 0 - 500 A	Silkaans	3 nos.
5.	3 phase variac 0 - 15 A.0-5A	Emco	2 no.
6.	Digital Multimeters	Rishab	5 nos
7.	Tong testers 0 -1000 A	KEW	3 nos
8.	Tong testers Digital	Taiwan	2 nos.
9.	Micro ohm meters	Agronics	2 nos
10.	Insulation testers 1 KV	Motwane	2 nos
11.	Insulation testers 5 KV	WACO	3 nos
12.	Insulation testers 5 KV battery operated	Motwane	1 no.
13.	Kelvin's bridge	Nippon	1 no.
14.	Harmonic Analyzer	Amprobe	1 no
15.	Automatic Tan-Delta Kit 0-10KV	FKGST China	1 no.
16.	Cable Fault Locator (beco-pick-up)	SEV	1 no.
17.	3 pole timer	Scope	1 no.
18.	Laptop / Thinkpad (dedicated for Testing)	HP	1 no.
19.	Power Analysers	Fluke	1 no.
20.	Loop impedance tester	Metel	1 No.
21.	Liquid pipe locator	Swuze	1 No.
22.	Electrostatic samper		1 No.

All the equipments are periodically tested at ERTL, IDEMI or Pilot Test house
Only calibrated equipments would be used for Testing.