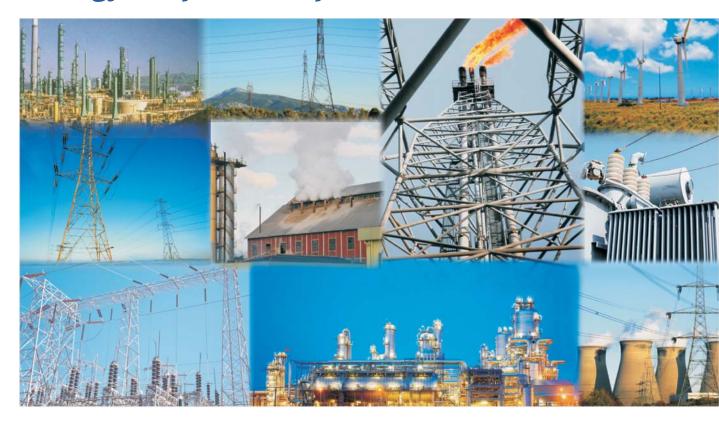
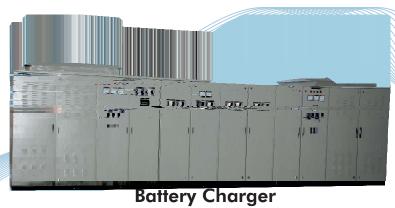
Energy to power up







From 5 A upto 2500 A 24, 48, 110, 220, 360 VDC





Company Profile

Chhabi Electricals, is India's most preferred company in the field of DC Power Solutions. or the last four decades, it has been supplying variety of standard as well as customised DC Power solutions to all types of Power Stations, Distribution and Industrial applications.

Chhabi is registered and approved vendor with all the major engineering consultants, thanks to its capability to handle customization and unmatched project execution skills. Export to more than 26 countries has broadened our geographical reach, apart from our pan India presence with installation of more than 10,000 systems. After sale support from our 10 offices, ensures quick response to customer needs and offers other services like AMC, Up-gradation etc.

CHHABI's modern manufacturing facility is spread across 50,000 sq. ft. at Jalgaon, Maharashtra with adequate test set up and power back up facility.

In the past Chhabi has been conferred with the prestigious 'Udyogshree', 'Order of Merit', 'Global Arch Excellence', 'District Award' by Maharashtra Government and 'IEEMA SME Quality Commendation' from IEEMA for 2013.



CEPL Manufacturing Plant at Jalgaon

- Four Decades in Power Business
- Innovative Designs
- Approved by Leading Engineering Consultants
- Registered & Approved Vendor for Major EPC Companies
- Specialises in Customised DC Power Solutions
- Supplied India's Largest Rated Charger for Power Plant
- Modern Manufacturing Facility
- Exporting to more than 21 Countries
- All India Sales and Service Network
- Winner of SME Quality Commendation Award ISQA 2013 from IEEMA
- An ISO 9001 Company



Introduction

Chhabi produces a wide range of rugged DC power systems for use in the industrial market sector to provide DC uninterruptible supply in conjunction with batteries to 24 V, 48 V, 110 V, 125 V, 220 V, 360 V critical loads.

The range of DC Systems are generally custom designed to provide a rugged, reliable and efficient power solution for critical loads to prevent expensive Outages.

These types of power systems are widely used in the harsh operating environments encountered in the power generation and distribution, oil and gas, industrial instrumentation and onshore or offshore petro-chemical applications.

DC Systems

Chhabi offer a range of standard DC power systems based around battery charger products. The DC power solution can be customize to meet the most demanding of client requirements. Chhabi is renowned for their technical expertise and manufacturing capability to provide the optimum solution.

Power Conversion

The AC to DC power conversion element of the system is typically configured from thyristor or switch mode technology depending on the performance and size constraints.

The range of thyristor based systems are highly rugged industrial systems, suitable for the most demanding of environmental and operating conditions. The thyristorised range of single phase

and three phase input charger products capable of operating on 24 V to 360 V DC nominal voltage with output currents up to 2500 A. Other ratings are also available as per customer's requirement. Charger with CMU103T Digital Controller

Standard Features offered:

- Overload and short-circuit electronic protection
- Very good time response for step load
- Very high efficiency
- Temperature compensation of battery charging voltage
- Programmable charging curves
- Embedded controller with
- ARM Cortex-M3 processor
- RS485 interface for remote monitoring
- Single phase / Three phase input options
- 6 pulse / 12 pulse / 24 pulse charger designs
- Alarms with annunciation windows

Options available

• To meet client specific dedicated requirements and specifications, the DC system is custom designed and configured. Custom designed systems can be configured from numerous options available. These include but are not limited to;

- Differing enclosure sizes and colours
- Enclosure (IPxx) protection ratings
- Alarm and system monitoring schemes
- Charger and battery redundancy schemes
- Customer specific distribution
- Battery monitoring
- Configurable remote alarms





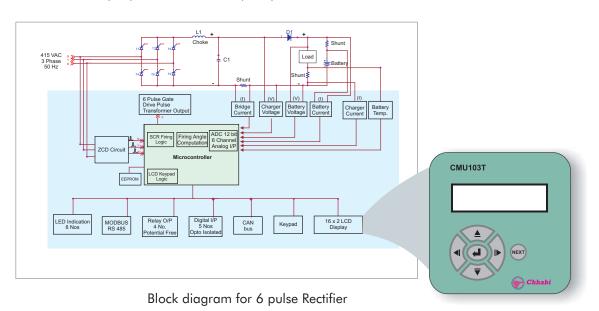


DC power supplies comprise rectifier units and the appropriate batteries.

Function

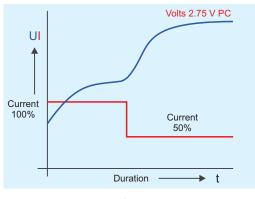
Thyristor regulated rectifier units are designed for a 3-phase input and constructed with a fully- controlled 3-phase bridge circuit (see basic circuit diagram below). Connection to the AC mains supply is made via a contactor in the rectifier unit input. A soft-start facility prevents high-voltage transients being passed through to the loads at the time of switch-on. The loads are electrically separated from the input by an

isolation transformer. The set of thyristors is protected by a very quick-acting semiconductor fuses. The central control unit CMU103T is responsible for the operation and supervision of the rectifier unit. It provides drive to the thyristors, monitors, the components of the rectifier unit. A separate microcontrolled unit DAA takes care of measurement, alarms, annunciation etc. It provided digital monitoring facility and it can be interfaced with PC using MODBUS. A proprietary software is available to monitor the charger remotely.

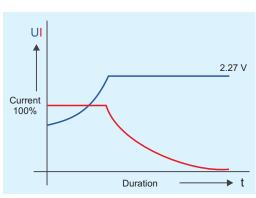


Charging methods

For the enhanced performance different charging methods are pre programmed in the charger controller. For example, IU and I.U I.U. charging methods are shown in the diagram. All the relevant parameters, according to battery requirements, are user configurable using the front panel keypad.



I.U I.U. Characteristic



IU Characteristic



Monitoring, Alarming, Data Logging and Remote monitoring

Chhabi battery charger is supplied with micro-controller based Digital Analog Annunciation and Controller called DAA. It is a sophisticated combined solution for the Metering, Annunciation and Remote monitoring of various parameters for the charger and battery. It is specifically designed keeping in mind the different requirements for the DC Power system and battery charging applications.

DAA provides a complete solution for alarm and monitoring in the DC power systems. The built in functions of DAA are user programmable via front display panel / keyboard and up to 24 different external alarms can be monitored making DAA extremely flexible and highly configurable supervisory module.

The DAA can be configured for use with an optional expansion relay module for additional remote relay alarm contacts.

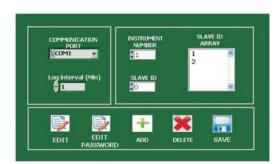
DAA has MODBUS RS 485 interface port for monitoring the charger remotely for SCADA, DCS, DDCMIS. Chhabi has developed a proprietary software, which helps in monitoring the charger remotely on a standard PC. Typlical configuration of PC being Pentium IV, with

1 GB RAM and 250 MB hard disk installation space, operating system Windows XP or higher.









During past four decades Chhabi has supplied various rating battery chargers (FCB) to variety of Industries, Power plants and power distribution sector. Ratings varies from 5 A upto 3000 A.

Our latest microprocessor based controller **CMU 103 T** is compatible with all our earlier designed battery chargers (FCB) and DC systems. The retrofitting of this controller will enhance the over all performance of the FCB and DC system, as well as it will provide fascilty for the remote monitoring of various parameters.

For more details on the same, please send your charger details along with installation date for our best proposal at marketing@chhabi-india.com







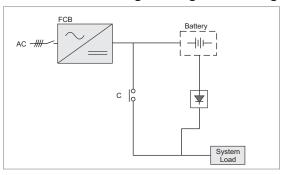
Battery Charger Configurations

The rectifier must be designed in such a way, that it can supply the load and at the same time, the battery should be able to boost charge, even if it is at fully-discharged condition.

When the AC mains supply fails, the battery takes over the load without any interruption and without any switching operation. The different schemes, which are normally used, depends on the criticality of loads and the site requirements.

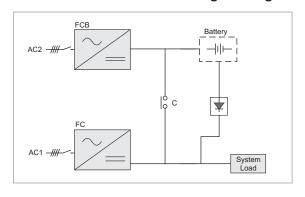
Following different configuration of Chhabi battery charger, are the standard offerings. A separate operation table provided, describes the functioning of each schematic under different operating conditions.

Float cum Boost charger - Single Batt - Single load



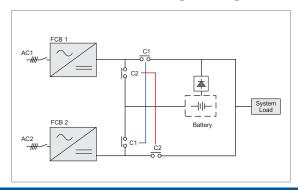
AC	FCB	С	BATT	LOAD	VDD
ON	Float	Close	Float	FCB	Bypass
ON	Boost	Open	Boost	FCB + VDD	In circuit
OFF	OFF	Close	Disc	Batt	Bypass

Float and Float cum Boost charger - Single Batt - Single load



AC 1	AC 2	FC	FCB	С	BATT	LOAD			
ON	ON	Float	Float	Close	Float	FC/FCB			
ON	ON	Float	Boost	Open	Boost	FC			
OFF	ON	OFF	Float*	Close	Float	FCB			
ON	OFF	Flaot	OFF	Close	Float	FC			
OFF	OFF	OFF	OFF	Close	Disc	Batt			
* Boost o	* Boost operation not allowed								

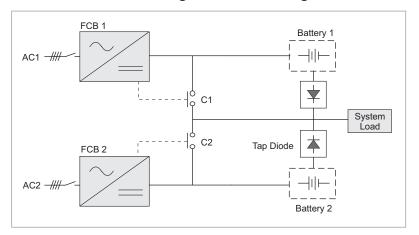
Dual Float cum Boost charger - Single Batt - Single load



AC 1	AC2	FCB1	FCB2	C1	C2	BATT	LOAD		
ON	ON	Float	Float	Close	Close	Float	FCB1/2		
ON	ON	Float*	Boost	Close	Open	Float	FCB1		
ON	ON	Boost	Float*	Open	Close	Boost	FCB2		
OFF	ON	OFF	Float*	Close	Close	Float	FCB2		
ON	OFF	Float*	OFF	Close	Close	Float	FCB1		
OFF	OFF	OFF	OFF	Close	Close	Disch	Batt		
* Boost	* Boost operation not allowed								



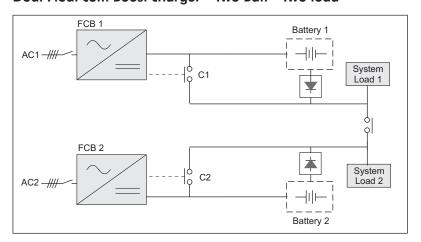
Dual Float cum Boost charger - Two Batt - Single load



AC 1	AC2	FCB1	FCB2	C1	C2	BATT1	BATT2	LOAD	
ON	ON	Float	Float	Close	Close	Float	Float	FCB1/2	
ON	ON	Float*	Boost	Close	Open	Float	Boost	FCB1	
ON	ON	Boost	Float*	Open	Close	Boost	Float	FCB2	
OFF	ON	OFF	Float*	Close	Close	Disch	Float	FCB2	
ON	OFF	Float*	OFF	Close	Close	Float	Disch	FCB1	
OFF	OFF	OFF	OFF	Close	Close	Disch	Disch	Batt1/2	
* D	* Danata an austina an at all accord								

^{*} Boost operation not allowed

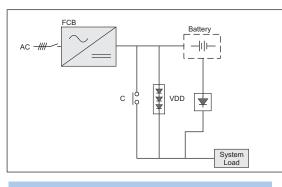
Dual Float cum Boost charger - Two Batt - Two load



AC 1	AC2	FCB1	FCB2	C1	C2	BATT1	BATT2	LOAD 1	LOAD 2
ON	ON	Float	Float	Close	Close	Float	Float	FCB1	FCB2
ON	ON	Float*	Boost	Close	Open	Float	Boost	FCB1	FCB1**
ON	ON	Boost	Float*	Open	Close	Boost	Float	FCB2**	FCB2
OFF	ON	OFF	Float*	Close	Close	Disch	Float	Batt1	FCB2
ON	OFF	Float*	OFF	Close	Close	Float	Disch	FCB1	Batt2
OFF	OFF	OFF	OFF	Close	Close	Disch	Disch	Batt1	Batt2
* Boos	* Poort aparation not allowed								

Boost operation not allowed

Float cum Boost charger - Single Batt - Single load



AC	FCB	С	BATT	LOAD	VDD
ON	Float	Close	Float	FCB	Bypass
ON	Boost	Open	Boost	FCB + VDD	In circuit
OFF	OFF	Close	Disc	Batt	Bypass



^{**} Through bus coupler



Technical Specifications for Three phase battery charger

Electrical								
Input AC voltage*	415 VAC -10	%, 3PH, 3/4 Wiir	re, 50Hz.or 60Hz. –5%					
Nominal voltage*	24 VDC	48 VDC	110 VDC		125 VDC	220 VDC	360 VDC	
Applicable standard	IS 4540, IEC 146 (To the extent possible)							
Battery Types	Lead acid, Va	lve regulated Le	ad Acid or Niickel Cadnii	ım	n batteries			
Charging Characteristics	Constant curr	ent, Constant vo	Itage (IU,IUI.U.)					
Number of Cells	Lea	d acid	Valve regulate	ed	Lead Acid		Niickel Cadnium	
24 V	11	- 13	11 -	13	3		19 - 21	
48 V	23	- 25	23 -	25	5		38 - 41	
110 V	53	- 56	53 -	56	3		85 - 87	
125 V		62	62	2			98 - 100	
220 V	108	- 111	108 -	11	11		169 - 176	
360 V	1	180	18	0			278 - 284	
DC Output Voltage	Float Mode : For Lead Acid : 2.15 to 2.2 VPC For VRLA : 2.15 to 2.25 VPC For Nickel Cadmium : 1.40 to 1.42 VPC					Boost Mode : For Lead Acid : 2.65 to 2.75 VPC For VRLA : 2.3 to 2.35 VPC For Nickel Cadmium : 1.65 to 1.7 VPC		
DC Voltage Regulation	±1% at 0 to 10	00% load and sp	ecified AC voltage tole ra	nc	e (In Float Mode)			
DC output current Range	5A - 3000A &	Other on Reque	st.					
Current Variation	Can be set at (In Boost Mo	10% -100% of ra de)	ated current		Current Limit		103 % Rated Current (In Float Mode)	
DC Current Regulation	± 2% (In Boo	st Mode)						
Magnetics	Isolation trans	former / Filter C	hoke		Insulation class		Class F	
Temp. rise above ambient	90°C (For Ma	gnetics)			High voltage		2.5 KV for 1 minute	
Rectifier set	Fully controlle	d bridge circuit v	vith thyristors (6 Pulse /	12	2 Pulse / 24 Pulse)			
Output ripple	Less than or E	Equal to 1% RMS	S without battery connec	te	d			
Efficiency **	80 to 93% dep	pending on nomi	nal voltage and power ra	tin	ng.			
Temperature Compensation	Programmable	e 2 - 6 mv / cell /	′ °C					
Standard instrument	Output : DC \ Battery : DC \ AC I/P : AC \		nal)		Standard protection		Thyristor protection fuse, Soft Start Feature***, Electronic current limit, Phase sequence reversal and Phase failure protection	
Standard alarms / Annunciation	blown, DC Ov	ctifier Fuse blow vervoltage, DC U r floating DC sys	~ '		Status indication LED / Lamps		AC Mains ON, DC ON	
Communication	RS 485							
Remote indications	Potential free	Relay contacts (Optional)					
Mechanical								
Construction	Folded sheet / MS construction				Sheet Thickness		Frame - 2 mm & Panels - 1.5 mm	
Cable Entry	Bottom (Top cable entry on Request)			Panel access		Front & Rear		
Terminal Arrangement	At Back Side			Enclosure protection		IP20 / IP31 / IP42 (other on request)		
Enclosure color	External / Internal : RAL 7032 (Other shade available on request)			Paint finish		Powder Coating - Structure Finish		
Panel Installation	Indoor, Self S	tanding Floor mo	ounting		Acoustic noise		70 dBA & 80 dBA	
Operating conditions	0 - 50° C ≤ 95% humidi ≤ 1000 m abo	ty (non condens ve M.S.L.	ing)		Ventilation		Natural air cooling / Forced air cooling.	

^{*} Other voltages available on request

Note: All the data given are the guidelines only & cannot be held binding on the company. In view of continuous improvement, the company reserves right to change the specification & design without notice.

^{**} At maximum output parameters & At Nominal AC Input Voltage

^{***} The soft start feature ensures gradual development of DC output voltage after the charger is switched ON, protecting the charger from heavy inrush currents.



Battery Charger Ratings

Rated current A	24	48	110	220	360
5	FCB-24-05-1PH	FCB-48-05-1PH	FCB-110-05-1PH	FCB-220-05-1PH	FCB-360-05-3PH
10	FCB-24-10-1PH	FCB-48-10-1PH	FCB-110-10-1PH	FCB-220-10-1PH	FCB-360-10-3PH
15	FCB-24-15-1PH	FCB-48-15-1PH	FCB-110-15-1PH	FCB-220-15-3PH	FCB-360-15-3PH
20	FCB-24-20-1PH	FCB-48-20-1PH	FCB-110-20-1PH	FCB-220-20-3PH	FCB-360-20-3PH
25	FCB-24-25-1PH	FCB-48-25-1PH	FCB-110-25-3PH	FCB-220-25-3PH	FCB-360-25-3PH
30	FCB-24-30-1PH	FCB-48-30-3PH	FCB-110-30-3PH	FCB-220-30-3PH	FCB-360-30-3PH
40	FCB-24-40-1PH	FCB-48-40-3PH	FCB-110-40-3PH	FCB-220-40-3PH	FCB-360-40-3PH
50	FCB-24-50-1PH	FCB-48-50-3PH	FCB-110-50-3PH	FCB-220-50-3PH	FCB-360-50-3PH
60	FCB-24-60-3PH	FCB-48-60-3PH	FCB-110-60-3PH	FCB-220-60-3PH	FCB-360-60-3PH
80	FCB-24-80-3PH	FCB-48-80-3PH	FCB-110-80-3PH	FCB-220-80-3PH	FCB-360-80-3PH
100	FCB-24-100-3PH	FCB-48-100-3PH	FCB-110-100-3PH	FCB-220-100-3PH	FCB-360-100-3PH
125	FCB-24-125-3PH	FCB-48-125-3PH	FCB-110-125-3PH	FCB-220-125-3PH	FCB-360-125-3PH
150	FCB-24-150-3PH	FCB-48-150-3PH	FCB-110-150-3PH	FCB-220-150-3PH	FCB-360-150-3PH
175	FCB-24-175-3PH	FCB-48-175-3PH	FCB-110-175-3PH	FCB-220-175-3PH	FCB-360-175-3PH
200	FCB-24-200-3PH	FCB-48-200-3PH	FCB-110-200-3PH	FCB-220-200-3PH	FCB-360-200-3PH
225	FCB-24-225-3PH	FCB-48-225-3PH	FCB-110-225-3PH	FCB-220-225-3PH	FCB-360-225-3PH
250	FCB-24-250-3PH	FCB-48-250-3PH	FCB-110-250-3PH	FCB-220-250-3PH	FCB-360-250-3PH
275	FCB-24-275-3PH	FCB-48-275-3PH	FCB-110-275-3PH	FCB-220-275-3PH	FCB-360-275-3PH
300	FCB-24-300-3PH	FCB-48-300-3PH	FCB-110-300-3PH	FCB-220-300-3PH	FCB-360-300-3PH
325	FCB-24-325-3PH	FCB-48-325-3PH	FCB-110-325-3PH	FCB-220-325-3PH	FCB-360-325-3PH
350	FCB-24-350-3PH	FCB-48-350-3PH	FCB-110-350-3PH	FCB-220-350-3PH	FCB-360-350-3PH
375	FCB-24-375-3PH	FCB-48-375-3PH	FCB-110-375-3PH	FCB-220-375-3PH	FCB-360-375-3PH
400	FCB-24-400-3PH	FCB-48-400-3PH	FCB-110-400-3PH	FCB-220-400-3PH	FCB-360-400-3PH
425	FCB-24-425-3PH	FCB-48-425-3PH	FCB-110-425-3PH	FCB-220-425-3PH	FCB-360-425-3PH
450	FCB-24-450-3PH	FCB-48-450-3PH	FCB-110-450-3PH	FCB-220-450-3PH	FCB-360-450-3PH
475	FCB-24-475-3PH	FCB-48-475-3PH	FCB-110-475-3PH	FCB-220-475-3PH	FCB-360-475-3PH
500	FCB-24-500-3PH	FCB-48-500-3PH	FCB-110-500-3PH	FCB-220-500-3PH	FCB-360-500-3PH
550	FCB-24-550-3PH	FCB-48-550-3PH	FCB-110-550-3PH	FCB-220-550-3PH	FCB-360-550-3PH
600	FCB-24-600-3PH	FCB-48-600-3PH	FCB-110-600-3PH	FCB-220-600-3PH	FCB-360-600-3PH
650	FCB-24-650-3PH	FCB-48-650-3PH	FCB-110-650-3PH	FCB-220-650-3PH	FCB-360-650-3PH
700	FCB-24-700-3PH	FCB-48-700-3PH	FCB-110-700-3PH	FCB-220-700-3PH	FCB-360-700-3PH
750	FCB-24-750-3PH	FCB-48-750-3PH	FCB-110-750-3PH	FCB-220-750-3PH	FCB-360-750-3PH
800	FCB-24-800-3PH	FCB-48-800-3PH	FCB-110-800-3PH	FCB-220-800-3PH	FCB-360-800-3PH
850	FCB-24-850-3PH	FCB-48-850-3PH	FCB-110-850-3PH	FCB-220-850-3PH	FCB-360-850-3PH
900	FCB-24-900-3PH	FCB-48-900-3PH	FCB-110-900-3PH	FCB-220-900-3PH	FCB-360-900-3PH
1000	FCB-24-1000-3PH	FCB-48-1000-3PH	FCB-110-1000-3PH	FCB-220-1000-3PH	FCB-360-1000-3PH
1250	FCB-24-1250-3PH	FCB-48-1250-3PH	FCB-110-1250-3PH	FCB-220-1250-3PH	
1600	FCB-24-1600-3PH	FCB-48-1600-3PH	FCB-110-1600-3PH	FCB-220-1600-3PH	
2000	FCB-24-2000-3PH	FCB-48-2000-3PH	FCB-110-2000-3PH	FCB-220-2000-3PH	
2500	FCB-24-2500-3PH	FCB-48-2500-3PH	FCB-110-2500-3PH		
3000	FCB-24-3000-3PH	FCB-48-3000-3PH	FCB-110-3000-3PH		

With Single Phase input

With 12 Pulse design

With 6 Pulse design

With 24 Pulse design

Note: Higher ratings as per customer's specifications





Reference

Chhabi is a name associated with chargers, since 1965, is India's top five company in the field of DC Power Solutions. For last four decades, it has supplied variety of standard as well as customised DC Power solutions to various industry verticals.

THERMAL POWER STATIONS

Sipat, Barh, Korba, Trombay (Tata Electric), Chandrapur, Kahalgaon (L&T), Vindyachal, Khaparkheda, Ukai, Gandhinagar, Paricha, Kutch Lignite, Vijaywada, Talchar, Kota, Dadri, Simhadri, Aravli, Durgapur, Koderama, Mauda, Rihand, Anpara



BPCL, HPCL, IOCL, IPCL, ONGC, SPIC, Zuari Agro,
GAIL, GSFC, GNVFC, IFFCO, Bongaigaon Refineries
Cochin Refinery, Mangalore Refineries, Madras Refinery,
Reliance Petrochemicals, Sun Petrochemicals, Tata Chemicals,
Coromoandel Fertilizers, CFCL, RCF, Paradeep Phosphates,
Godavari, Deepak Fertilizer



Madhya Pradesh, Haryana, Uttar Pradesh, Rajasthan, Karnataka, Kerala, Tamilnadu, Maharashtra, Gujrat, Andra Pradesh, Bihar, Punjab, Orrisa, Delhi Vidyut Board, BEST, Ahmedabad Electricity Board

HYDRO ELECTRIC POWER STATIONS / PROJECT

Upper Sindh, Bhandardara, Terwanmedhe, Kanher & Dhom, Koyna, Ranganadi, Obra, Anandpur Sahib, Hirakud, Karajwan, Hemavati, Tons & Birsingpur, Tala Hydro Project - Bhutan, Koteshwar, Koldam









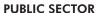


EPC COMPANIES

ABB, Alstom, Areva T&D, Aker Kvaerner, BHEL, Desein, EIL, GE Fanuc, Instrumentation Ltd, Jacob H&G, L&T, MECON, Petrofac Int., Siemens, Technimont ICB, Thermax, LANCO, Thyssen Krupp, Toyo Engineering, Yokogawa, Punj Lloyd, TCE, IVRCL Infrastructure, Gammon India, Mukand Ltd., Emerson Process Management, Corrtech International



Durgapur, Bhilai, Bokaro, Rourkela, Visakhapatanam Steel Plants, SAIL, Lloyds Steel, Sunflag Iron & Steel, Tata Steel, Malvika Steel, Ispat Industries, Zenith Steel Pipes, Essar Steel, Monet Ispat, Jindal Steel



NPCIL, BALCO, NALCO, NMDC, GMDC, NHPC, Mazgaon Docks, Power Grid Corporation, Bhakra Beas Management Board

INDUSTRIES

Reliance Industries, Nicco Corporation, Tata Electric, Kirloskar Brothers, Jindal Strips, Amco Batteries, Tata Motor, Ballarpur Industries, Crompton Greaves, Indian Rare Earth, Samsung Engineering, P. T. Indo Bharat Rayon, Hindalco, Hindustan Dorr Oliver, Cipla, Bajaj Auto, Maruti Udyog Ltd.,

CEMENT INDUSTRIES

ACC, Gujarat Ambuja, Grasim, India Cement, Shree Cement, Prerna Cement, Laxmi, Orient, Saurashtra, Indo Rama, Manikgarh

PIPE LINE PROJECTS

HPCL : Vizag - Vijaywada, BPCL : Mumbai - Manmad HMPL : Mundra - Bhatinda









Our other products

- Battery Chargers up to 500 KW rating
- SMPS based Modular Battery Chargers
- DC to DC Converters
- Solar Charge Controller
- Cell Boosters
- Battery Monitoring System
- Battery Discharger
- Digital Analogue Annunciator
- Stabilux Energy Saving Equipment
- Dry type Transformers
- ACDB, DCDB
- Complete DC Power solution

All India Sales and Service Network















Transformer

Solar Charge controller



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