

COMPANY  
PROFILE



**POWER EXCELLENCE  
BY INNOVATION**

The background of the lower half of the page is a collage of images. On the left, there are several rows of white industrial control panels with various gauges, switches, and indicator lights. On the right, there are two large white industrial cabinets with doors and handles. Below these, there is a photograph of a modern office interior with a glass wall, a white ceiling with recessed lighting, and a large black screen on the wall. In the bottom right corner, there is a dark, abstract image of glowing light bulbs or energy sources.

**SUPERTECH  
CONTROL SYSTEMS**

624, UPPER INDUSTRIAL AREA ANAND PARBAT  
NEW DELHI-110005  
9953700172, 9811240951

(C.P.R.I APPROVED 4000 AMP and IP- 55)

[www.supertechcontrolsystems.com](http://www.supertechcontrolsystems.com)

# COMPANY PROFILE

**NAME OF THE COMPANY :** SUPERTECH CONTROL SYSTEMS

**REGD. /ADMN. OFFICE ADDRESS :**

624, INDUSTRIAL AREA, UPPER ANAND PARVAT, New Delhi -110005

**CONTACT :** +91-99537-00172, +91-98112-40951

**EMAIL :** supertechcontrolsystem7@gmail.com, gauravtuli4@gmail.com

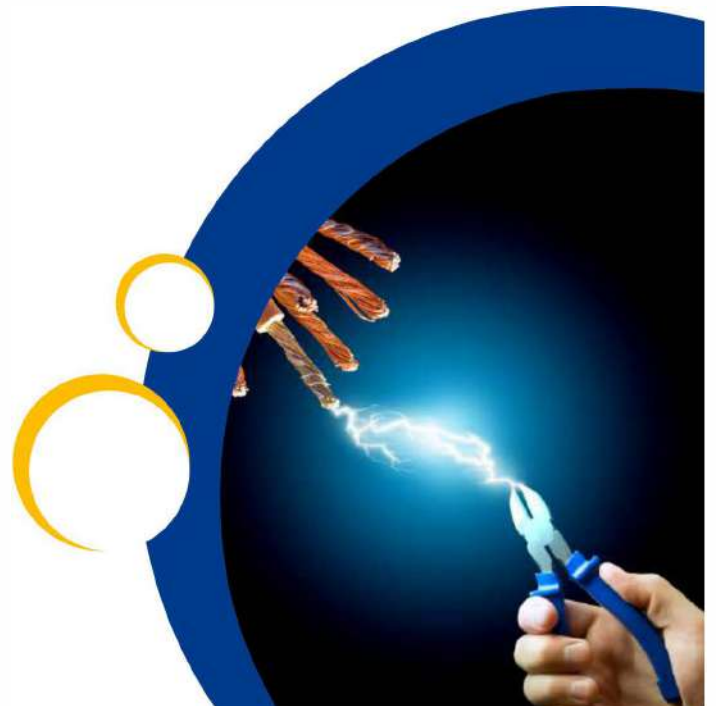
**YEAR OF INCORPORATION :** 2004

**COMMENCEMENT OF MANUFACTURING :** 2004

**GST NO :** 07ACMPT7955K1ZN

**TYPE OF INDUSTRY :** SMALL SCALE INDUSTRIES

**WORK PARTICULARS :** 256, Rai Industrial Area, HSIIDC, Haryana



# MANUFACTURERS *Of*

1. MOTOR CONTROL CENTRES (FIXED & DRAW OUT TYPE)
2. POWER CONTROL CENTRES
3. AC / DC DISTRIBUTION BOARDS
4. LT SWITCH BOARDS
5. CONTROL PANELS / CABINETS
6. CONTROL DESKS
7. CAPACITOR CONTROL PANELS
8. AMF PANELS
9. PLC PANELS / EXTENSION PANELS
10. LOCAL PUSH BUTTON STATIONS
11. FEEDER PILLARS
12. AC / DC MOTOR STARTER PANELS
13. LT BUS DUCT / RISING MAINS
14. JUNCTION BOXES
15. GENERATOR SILENT ROOMS UPTO 125 KV
16. SYNCHRONIZING PANELS
17. SERVO VOLTAGE STABILIZERS AND TRANSFORMER



# INTRODUCTION

**SUPERTECH CONTROL SYSTEMS** started its journey in 2004 with a small set up which has now progressed to a conglomerate with exponential growth and has penetrated to most of the corporate and multinationals. Our Company has become well known name for Automobile industries, Hotel Industries, Real estate & Infrastructures related projects, Multistory housing, Hospitals and Healthcare, Air conditioning, Heavy electrical & mechanical industries, aviation & shipping industries, mining industries and many more.

The force behind this success story is its executive director Mr. S.K.Tuli and his dedicated team of professionals. Mr. S.K.Tuli himself is an electrical engineer who has put 15 years of service onboard different ships and submarines of Indian Navy and has vast experience of designing, operating and maintaining highly sophisticated, technically most advance electrical, hydraulic and electro-mechanical systems. Mr. S.K. Tuli has a vast experience in With a Global vision; SUPERTECH CONTROL SYSTEMS is always in search of opportunity to prove its professional competence, quality consciousness and sincerity.

We have complete in house fabrication facilities along with powder coating & painting of Metal sheets. We have modern & sophisticated hydraulic machines & testing equipment's besides experienced staff.

In short span of 17 years we have already executed orders for a number of major projects. Our Customers, actual users and their consultants have of course inspected these supplies and found to their satisfactions. We have been getting repeat orders from our clients which itself speaks of their Confidence in us. A list of orders executed / being executed by us is enclosed by us.



# LV SWITCHBOARDS

Power control centers



# WHY US?

## **LV Switchboards is different from other manufacturers**

We have developed window based software for energy management system

No need hard copy of as built drawing SLD etc.

Touch screen HMI installed in front of switchboards in marshling bay

you can access all information of switchgear /accessories.

You can virtually see all power parameters of multifunction meter.

Event history of all incoming/outgoing feeders.

Single line diagram.

Interlocking Scheme

Busbar temperature

Preventive alarms

You can get these all features without any cost



# LV SWITCHBOARDS



## Power Control Centers

Available in a double bus bar system allowing any feeder to be tapped from any bus. It has a multi-tier compartmentalized circuit breaker panel, and arrangement for receiving supply through power cable or bus duct.



## Motor Control Centers

Has a multi-tier compartmentalized circuit breaker panel, and arrangement for receiving supply through power cable. Provision for remote accessibility and HBMS compatibility panel, and arrangement for receiving supply through power cable. Provision for remote accessibility and



## Feeder pillars

Come with a seam-welded outer shell and bolted structure for the inner shell. It has a multi-tier compartmentalized circuit breaker panel, and arrangement for receiving supply through power cable. Floor or wall mountable. Suitable for indoor or outdoor application. arrangement for receiving supply through power cable. Floor or wall mountable. Suitable for indoor or



# PERFORATED CABLE TRAY

Perforated Type Cable Tray are used to distribute cable and has been designed carefully keeping in mind industrial requirements. These trays are manufactured using top quality material and are available in various sizes. We can offer customized solution for all the products. These cable trays also available as Welded Type with high grade galvanized sheet and other materials such as painted and powder coated finish on mild steel.

Perforated cable tray offer high strength as per specification which made them perfect for heavy-duty power distribution in industries, manufactured using pre-galvanized mild steel. These Ladders are available in width ranging from 150mm to 1200 mm and height ranging from 50 mm to 150 mm. Available in standards length of 2500 mm.



Horizontal Bend



Reducer



Vertical Bend



Cross



Tee





# SERVO VOLTAGE STABILIZER

Supertech Control Systems have specialization in Transformers and Servo voltage stabilizers under the brand name Maestro. Maestro Servo voltage stabilizers are designed and tested as per IS Standards (IS9815/ IS20026) under high end test lab facilities. These are produced in various capacities and voltage ranges according to the need of our customers.

## APPLICATIONS

Air Conditioning Plants  
UPS Systems  
Hotels  
Medical Equipment  
Offset Printing Machines  
CNC Machines  
Escalators & Elevators  
Industries & Lighting Loads  
Mall & Comm. Complex  
Tele communication Systems  
Laboratory Equipments  
Defence Equipments

Residences & Offices  
Farm Houses  
Textile Industries  
Pharmaceuticals Industries  
Oil Industries  
R & D Institutions  
Metro logical departments  
Induction Heating  
Flour Mills  
Rolling Mills  
Distilleries & Beverages  
Tea Estates

Motors  
Cement Plants  
Domestic Loads  
Metal Industries  
IT Industries  
Automobile Industries  
Paper Mills  
Tube Mills  
Footwear & Leather Units  
Food Processing Units  
Cold Storage  
Rubber Industries

- 35 years of Excellence
- All India Network
- Eco-Friendly
- High Efficiency
- Best Quality
- Digital Micro Processed
- Latest Technology
- Low Maintenance
- Cost Effective
- Aesthetically Designed
- Elegant Look
- Low Noise Emusions
- Compact & Sleek



# HT DISTRIBUTION TRANSFORMER With A.V.R.

MAESTRO Make Copper wound, HT AVR suitable for indoor / outdoor installation, copper wound HT AVR system is a revolutionary landmark in the industry when it comes to voltage regulation and stabilization. Even after the installation of standard distribution transformer the problem of low / high voltage on the LT loss of a plant. The standard off - circuit tapping of transformers can correct limited voltage variation and cannot regulate the voltage while in 'on Load' conditions. We have developed state of the art technology HT Automatic voltage regulator that operates on load, sleeplessly & gives stabilized voltage on the HT side. The fluctuating voltage from Grid is initially controlled by the HT AVR and then fed to the transformer resulting in the constant H.T. Output within +/- 1% accuracy and the biggest advantage being its robust design ; Lesser losses & more efficiency make the distribution transformer to utilize up to 100% capacity.



H.T.A.V.R.



AVR

## FITTING AND ACCESSORIES

Standard fitting recommended in IS 2026-1977 are provided

1. Rating and diagram plate.
2. Earthing terminals - 2 Nos.
3. Lifting lugs.
4. Oil level indicator (Plain)
5. Drain-cum bottom filter valve with plug.
6. Oil filling hole with plug on conservator.
7. Oil conservator with drain plug.
8. Air release plug.
9. Silica gel air breather.
10. Bi-directional flat rollers.
11. HV terminals-outdoor bushings.
12. LV terminals-outdoor bushings.
13. Radiators.
14. Filter valve with plug.
15. Thermometer pocket.
16. Oil temperature indicator.
17. Externally operated off circuit tap changing switch.
18. Explosion vent.
19. Sampling valve

(for 2000 KVA & above transformers only)

## Accessories on Request

1. LV and HV cable boxes
2. Winding temperature indicator (WTI)
3. Buchholz relay
4. Magnetic oil level gauge
5. Marshalling box.
6. Disconnecting chamber
7. Oil temperature indicator with electrical contacts (OTI)
8. Pressure relief valve

## TESTING FOR QUALITY ASSURANCE

Our works is equipped with all requisite testing facilities for quality assurances. Each transformer is tested for all tests confirming to IS:1180 and IS:2026 by qualified and experienced engineers with precision grade instruments. The tests involved are :

1. Measurement of insulation resistance.
2. Measurement of voltage ratio.
3. Check up of vector group and polarity.
4. Included over voltage test at double voltage and double frequency.
5. Separate source high voltage test of HV side and LV side.
6. Measurement of on load losses and magnetizing current.
7. Measurement of load losses and impedance voltage.
8. Measurement of zero sequence current.
9. Measurement of HV winding and LV winding resistance.
10. Measurement of temperature rise of winding and oil of transformers at full rated load.
11. Pressure and vacuum testing of transformer for permanent deflection of body.
12. Check up of dielectric strength of transformer oil.  
(Test certificate are issued with each transformer.)

## ADDITIONAL TESTING

1. Short circuit with stand test.
2. Impulse voltage with stand test. These are the type tests and can be arranged at C.P.R.I. BHOPAL / BANGALORE and other recognized laboratories on payment if required by the customer.)



Display/Indicators	
Low voltage cut off set	Display shows-Lo
High voltage cut off set	Display shows-Hi
Time delay relay set (TDR)	Display shows-TDR
C T Ratio	Display shows-CTr
Set Current	Display shows-CUr
Input Voltage Display	Display shows In-YES
Current Display	Display shows CUr-YES

#### CONTROL AND DISPLAY MODULE :

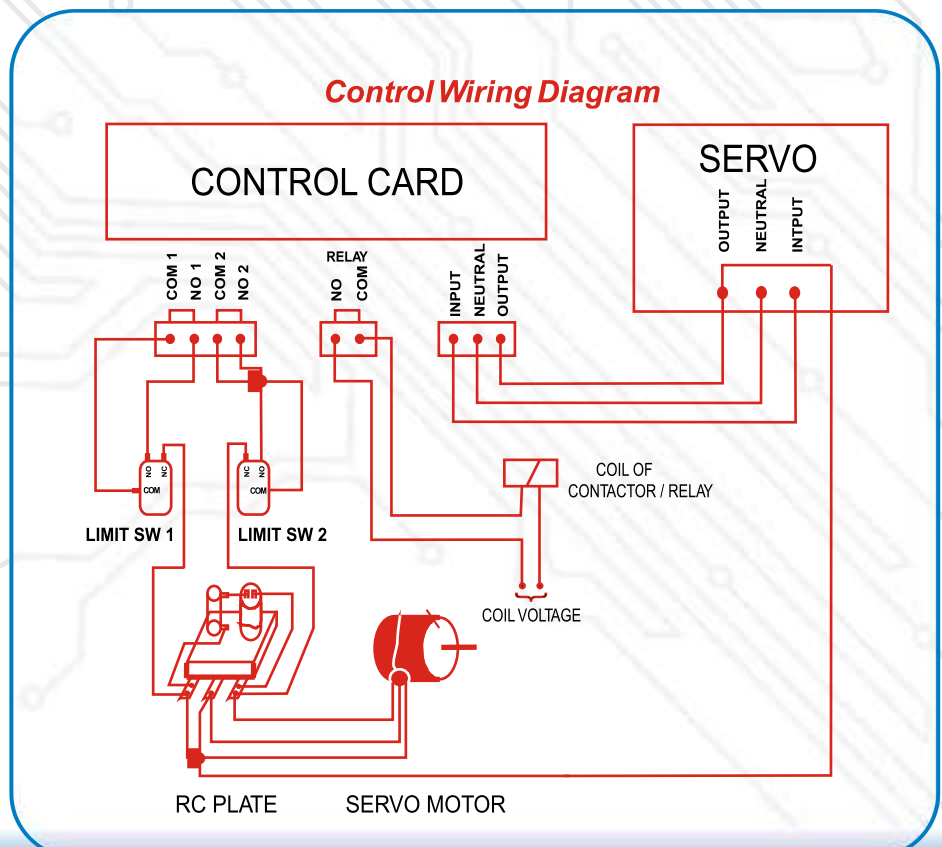
It is equipped with an advanced Micro-controller technology and self controllable and programmable design. There are various parameters which can be programmed through push buttons.

#### PROGRAMMABLE LOW/HIGH CUT & TDR :

When it comes to defining the levels of protection for Low Voltage and High Voltage, it is very easy and yet powerful to do so by the user himself. Time Delay Relay is programmable from 1 sec. to 180 sec. through push buttons.

### TECHNICAL SPECIFICATIONS

- CAPACITY (III phase)** : 3 KVA to 3000 KVA
- INPUT VOLTAGE** : 340V-460V / 280V-460V / 190V-460V
- OUTPUT VOLTAGE** : 380V / 400V / 415V
- CAPACITY (I phase)** : 1 KVA to 100 KVA
- INPUT VOLTAGE** : 160V-260V / 140V- 260V / 110V-260V
- OUTPUT VOLTAGE** : 220V / 230V / 240V  
(other ranges available on specific request)
- REGULATION** : +/- 1%
- DIGITAL MICRO PROCESSOR BASED LATEST TECHNOLOGY WITH HIGH EFFICIENCY**
- FREQUENCY** : 50 HZ +/- 3 HZ
- INSULATION** : Greater than 6 M. Ohms
- OPERATING TEMPERATURE** : -15 Deg. C to 55 Degree C above ambient.
- TYPE** : Unbalanced/Balanced supply on  
Unbalanced/Balanced Load
- TYPE OF COOLING** : OIL Cooled / AIR Cooled
- MODE OF OPERATION** : Auto / Manual selectable.
- SPEED OF CORRECTION** : 15V/Sec – 20V/Sec
- RESPONSE TIME** : 10 mille sec.
- DUTY CYCLE** : Continues.
- EFFICIENCY** : Better than 98%
- WAVE FORM DISTORTION** : Nil
- NO LOAD LOSSES** : Less than 0.8%
- EFFECT OF**



## Programming Mode (Optional Features)

In this mode programming can be done to control and adjust various parameters. To enter in this mode two buttons Input and Auto/Man. are required to be pressed simultaneously, When pressed together display shows "LO".

**Low Cut :** Here programming mode has initiated. Now press one at a time out of these two buttons. One acts as decrease and another one act as a increase Button. Set this reading to the desired low cut voltage. This reading is stored in memory. This reading can be made to set from 100v -210v.

**High Cut :** Now again press both buttons together, display shows "Hi". Here High Voltage cut off can be set with the help of same buttons by pressing individually. This reading can be made to set from 220V - 280V.

**Time Delay Relay :** Now again press both buttons together, display shows "TDR". Here time after which relay should turn ON after every cold start or cut-off start. Time Delay can be set with the help of same buttons by pressing individually. This reading can be made to set from 1-180 sec.

### SETTING :

**Tolerance Setting:** (Caution : This is strictly to be done by a skilled technician and only if necessary) Behind the front panel there are two pots on the PBC. These are visible if seen from top. Out of these two pots is sealed and another can be tuned. if tuned in one direction, motor starts hunting and then from here tune it reverse such that  
(I) Motor just stop hunting and here it is with minimum tolerance, But here with a slight fluctuation in voltage it will start correcting. in this way life of carbon brush is also affected.  
(II) Tune it little further to achieve required hysteresis tolerance. Normally it is tuned have a tolerance of +/-3V.

### DISPLAY / INDICATOR

**Display Window:** In normal operation it shows the output voltage however when input button is pressed then it shows the input voltage

**High :** It is on when Servo Variator has reached at its High extreme.

**Low :** It is on when Servo Variator has reached at its Low extreme.

**Mains : OFF :** Servo output relay is off. / **ON :** Servo output relay is on.

**Blinking :** Time Delay for the relay is in action. After set time it is going to turn ON.

### 🔗 Servo Motor Movement

**Input :** It is ON whenever Input Push Button is Pressed. And during this time digital display reading shows Input voltage other wise it is output voltage in normal operation.

**Auto :** It is ON when Servo is operating in Auto mode.

**Man :** It is ON when Servo is operating in Manual Mode.

### PUSH BUTTON/SETTING

**Input :** This button when pressed, shows the input voltage in the digital display window.

**Auto/ Man :** This button is used to toggle between Auto mode and Manual Mode. It get to Auto mode Immediately with the press of button but for going to Manual mode from Auto It waits for some time (3-4 Sec.) for this button to be pressed continually. It has been done intentionally to make sure that this is intentional switching by an authorised person.

**Buck :** This used to lower the voltage when in Manual mode. **Boost :** This is used to raise the voltage when in Manual mode.

🔧 This is for the purpose of adjusting the required output voltage. There is a pot inside this which can be tuned to reach at desired output voltage. Servo makes sure that it maintains that voltage with the +/- a hysteresis tolerance. Normally this can be set from 200V to 250V



# HT DISTRIBUTION TRANSFORMER

**MAESTRO** provides a wide range of Oil Filled Distribution Transformers which are conforming to the IS and international standards of quality and safety. These transformers are designed and developed using latest technologies and can be provided with a variety of terminations so as to suit the requirements for new installation of products. Optimum efficiency can be ensured by delicate proportioning of core and winding losses using CRGO M3 to M5 MOH Lamination and Electrolytic Grade 99.9% pure copper, with Transposition in L.V. coil for current sharing in parallel Conductors, Electric grade mineral oil, press paper and boards. Thus better regulation is achieved resulting in longer life. Careful and precise designing also reduces noise level to the minimum.

## PRODUCT

**MAESTRO** make Sealed/Conventional, Single/Three Phase, 50 Hz aluminum / copper double wound, oil immersed, continuous heavy duty transformers are designed with Class A / Class F insulation to withstand short circuit and impulse test standards. These are robust and durable machines which last for many years.

## CORE

Core used is made from best grade imported cold rolled grain oriented silicon steel laminations with the hi-tech latest technique of annealing. Reduced core losses and magnetizing the current considerably, core is specially designed to sustain over fluxing up to 12.5%. Individual stamping insulated on both side with oil and temperature resistant insulating material. Core is stamped with steel channels rigidly to reduce the sound level and earthed with electrical grade copper sheet.

## WINDING

The winding are of different type 1)Spiral 2)Crossover 3)Helical 4)Disc, designed to withstand the optimum electrical, mechanical, dynamic and thermal stresses depending upon the current and voltage. The coils are wound with electrolytic grade high conductivity, annealed wire and strips covered with high quality insulation. All coils are reinforced, insulated and impregnated with insulating varnish to with stand the effect of short circuits and impulse voltage shocks. Cooling ducts are provided to minimize the hotspot temperature and temperature gradient between winding and oil.

## INSULATION AND OIL

The Insulation material like pre-compressed boards, blocks, corrugated cylinders, Bakelite tubes, insulating tapes, empire sleeves, glass sleeves, varnish, epoxy bushing, porcelain bushing etc. are used of best quality to ensure long life of transformers. Oil used as a coolant and insulating medium is of best quality confirming to IS:335. Before filling in to the transformers, oil is centrifuged, dehydrated and filtered through 'Stream Line Filtration plant' and tested to ensure free from moisture.

Complete Transformer	IS	2026, 1180
Insulating Oil	IS	335
Lamination	IS	3024
Conductor	IS	4800, 3454
	IS	1666, 4718
	IS	6162, 6160
Insulation	IS	1271, 1397
	IS	1576
Fittings	IS	3639
Bushing	IS	3347, 2099
Tap Changer	IS	8468

## TANK & RADIATOR

The Tanks are made from prime quality mild steel sheets, plates and pipes by electrical welding. Proper bracing and stiffeners are provided for robust construction. The tanks are tested as specific pressure for leakage at joints. Sufficient cooling radiators are provided for maximum dissipation of heat during extreme ambient temperatures. The radiators are made from best grade presses steel fins or elliptical tubes

## PAINTING

Tank surface exposed to atmosphere is galvanized / painted with two coats of red oxide paint to provide maximum resistance to corrosion and two coats of epoxy based anti-corrosion enamel paint. Surface in contact with oil is treated with two coats of 'Oil and Heat Resistant paint'. This paint has more effective resistance compared to ordinary enamel paint against corrosion and oil/heat reactions.

## VECTOR GROUP

Dyn 11, Various vector groups can be provided as per requirement.

## TEMPERATURE RISE

Designed for maximum temperature rise at full rated load 40°C / 50°C for oil and winding of aluminum wound transformers and 45°C / 50°C for oil and winding of copper wound transformers

## OVERLOADING

**MAESTRO** Transformers are designed for overloading more than normal rating as per IS:6600

## TERMINAL ARRANGEMENT

H. V. - Bare Bushings or Cable Box, L. V. Bare Bushings or Cable Box. Disconnecting chambers can also be provided on both HV and LV Cable boxes.



# OUR CLIENTS



# Recent Projects

S.NO.	PROJECT NAME	CONTRACTOR	SITE	IN LACS
1	Mankind Pharma	PIECO India Pvt.Ltd.	Udaipur	140.7
2	Dholera Smart City	Bridge & Roof Co. Ltd.	Gujarat	400
3	SSB Hospital	PIECO India Pvt.Ltd.	Faridabad	128
4	ESIC MEDICAL COLLEGE	NBCC	Andheri Mumbai	68
5	NSIC	NBCC	OKHLA	12
6	AIMTREX	MEP CONSULTANT	THANE, MAHARASHTRA	40
7	AIMTREX	ABETT CONS. ENG.	SAHARANPUR, UP	25
8	ECI OFFICE	NBCC	ASHOKA HOTEL, DELHI	4
9	EMERALD VALLEY SCHOOL	EMERALD VALLEY	GURGAON	35
10	L&T TELECOM	UNICEL	PAN INDIA	20
11	NBCC SERVICES LTD	INTERMARC	HT HOUSE DELHI	2.5
12	NBCC SERVICES LTD	AGNI LIMITED	ELECTION COMMISSION OFFICE DELHI	0.7
13	NBCC SERVICES LTD	AGNI LIMITED	LUCKNOW	3.8
14	NHPC	AVISHA INFRASTRUCTURE	KISHANGANGA HYDRO THERMAL PROJECT J&K	18
15	NBCC CENTER	NBCC CENTER	Jaipur	0.98
16	WE WOK	WE WORK	Gurgaon	2.35
17	NBCC CENTER	KK TECHNOCRATS PVT LTD	Jaipur   Delhi Jeevan Vihar   Delhi Okhla   Delhi MCA House	22.75
18	GAIL INDIA LTD	KK TECHNOCRATS PVT LTD	Bhopal	3.9
19	ESI HOSPITAL	DEW ELECTRICALS PVT LTD	Pune	56
20	ESI HOSPITAL	DEW ELECTRICALS PVT LTD	VASI MUMBAI	22
21	CSIR	DEW ELECTRICALS PVT LTD	Mumbai   Delhi	36.3
22	ESI HOSPITAL	DEW ELECTRICALS PVT LTD	Andheri Mumbai	82
23	NORWAY EMBASSY	DEW ELECTRICALS PVT LTD	Delhi	18.5
24	UPES UNIVERSITY	DEW ELECTRICALS PVT LTD	Bidoli Dehradun	45
25	PASSPORT SEWA KENDRA	MINISTRY OF AFFAIRS	PAN INDIA	120.3
26	OP JINDAL UNIVERSITY	OP JINDAL UNIVERSITY	Sonipat Haryana	35
27	SAMSUNG INDIA	BNT ENGINEERS PVT LTD	NOIDA	25
28	KIA MOTORS	AA STUDIO	MUMBAI, DELHI	15.5
29	V MART INDIA	V MART INDIA	Pan India	47
30	AIRPORT AUTHORITY OF INDIA	ELECTRO SYSTEM	DIBRUGARH AIRPORT   PINJOR   DELHI	13.2
31	AIRPORT AUTHORITY OF INDIA	REWINDER TECHNO ELECTRICAL	GUWAHATI-AMRITSAR-DEHRADUN-PANT NAGAR	65.5
32	HDFC BANK CO. OFFICE	VOLTECH Engineers Pvt Ltd	DELHI	19.85
33	PC JEWELLERS LTD	PC JEWELLERS LTD	Pan India	12
34	FIITJEE LTD	FIITJEE LTD	Vijayawada, Delhi	32
35	NESTOR PHARMACEUTICALS	NESTOR PHARMACEUTICALS	Faridabad	17.85
36	SBI OFFICE	RK ELECTRICALS	GURGAON	14.16
37	PARNAMI GROUP	LAKSHAY ELECTRIC CONSULTANT	JHAJJAR	49.5
38	WOODSTOCK SCHOOL	WOODSTOCK SCHOOL	MUSSORIE	2.65
39	ROYAL ORCHID	ROYAL ORCHID	DELHI	22
40	PHS MACHINERIES PVT LTD	Mr. PAWAN SETHI	Sonipat Haryana	51.5
41	MONSSON IMPEX	IMS CONSULTANT	MANESHAR GURGAON	19.65
42	SBI GE OFFICE	IMS CONSULTANT	CYBER CITY GURGAON	14.16
43	FRONTIER RASS	IMS CONSULTANT	DELHI	18
44	THE PRATAP PALACE	Mr. RANGAWANI	PUSHKAR	19.23
45	THE BAGGA BEACH RESORT	Mr. MANOJ MEHANI	GOA	11.3
46	I LOVE BELL BOTTOM HOTEL	Mr. RANGAWANI	GOA	15
47	PUNJAB STEELS	Mr. RICKY	Sonipat Haryana	14.5
48	YES BANK LTD		PAN INDIA	15
49	KOTAK MAHINDRA BANK	KMBL	PAN INDIA	75
50	NHPC	Avisha Infra Pvt. Ltd.	PowerStation Chamba	7.5

# Few Of The Appreciations Received From Our Clients

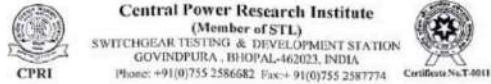




# Few Of The Appreciations Received From Our Clients



# CPRI And MSME IP 55 Certification



## TEST REPORT

Sheet 1 of 5

**Test Report Number** S2070171 **Date:** 11 JUN 2007

**Name & address of the customer** Supertech Control Systems  
624, Upper Anand Park, New Delhi - 5

**Name & address of the manufacturer** Supertech Control Systems  
624, Upper Anand Park, New Delhi - 5

**Particulars of sample tested** LT Control panel  
**Condition of sample on Receipt** New

**Type** Nil  
**Designation** Nil  
**Serial number** Nil  
**Number of samples tested** One  
**Date(s) of Test(s)** 2<sup>nd</sup> March, 2007  
**CPRI sample code no.** STDSS120780219

**Particulars of tests conducted** Verification of short circuit withstand strength  
**Test in accordance with Standard/specification** As per cl. 8.2.3 of IS 8623(Part-1): 1995  
**Sampling plan** Not applicable  
**Customer's requirement** Nil  
**Deviations if any** Nil

**Name of the Witnessing persons** Shri S.K. Tuli and Shri Gaurav  
**Customer's representative** Nil  
**Other than customer's representatives** Nil  
**Test subcontracted with address of the laboratory** None

**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** Three

(HUMANGHILROY)  
TEST ENGINEER

(ANUPAM AWASTHI)  
LABORATORY INCHARGE  
ENGINEERING OFFICER, GR.5

AUTHORISED SIGNATORIES



**Central Power Research Institute**  
(Member of STL)  
SWITCHGEAR TESTING & DEVELOPMENT STATION  
GOVINDPURA, BHOPAL-462023, INDIA  
Phone: +91(0)755 2586682 Fax: +91(0)755 2587774



Test Report Number S2070171

Sheet 2 of 5

## Summary of test

**Test conducted** Verification of short circuit withstand strength

**Rating for which tested** 50 kA/m for 1.0 second with initial peak of 105kA

**Documents constituting this report**

**Oscillogram numbers** S2070171\_502,504

**Photograph numbers** P-1

**Test circuit diagram numbers** OL-TS/TCD-STC-01, GL-TS/TCD-STC-02

**Drawing number** SCS/CPRI/01 Rev-01, SCS/CPRI/02 Rev-02, SCS/CPRI/03 Rev-03

TEST ENGINEER



# CPRI And MSME IP 55 Certification



**Central Power Research Institute**  
(Member of STL)  
SWITCHGEAR TESTING & DEVELOPMENT STATION  
GOVINDPURA, BHOPAL-462023, INDIA  
Phone: +91(0)755 2586682 Fax: +91(0)755 2587774



Test Report Number: S2070171

Sheet 4 of 3

### Verification of short circuit withstand strength

Test conditions:	
Condition of the sample	New
No. of phases	Three & Neutral
Source frequency	50Hz
Transformer neutral & short circuit point	See test circuit diagram no. OLT5/TC-D-5TC-01 for three phase test and OLT5/TC-D-5TC-02 for a single phase test
Safety parameter	The sample was insulated from earth and connected to neutral of the supply via a fuse of 8 mm diameter copper wire 50mm long in series with a resistor limiting the fault current to 100A

Oscillogram Number	Peak kA	RMS in kA			Duration (second)	Equivalent current in kA rms for 1 second
		I <sub>r</sub>	I <sub>v</sub>	I <sub>b</sub>		
Three phase test on main busbars of HBD + VBD (Peak in R phase). Test circuit diagram OLT5/TC-D-5TC-01						
S2070171-502	105.8	50.43	50.69	50.1	1.0	50.69
Single phase test on neutral & nearest phase busbar of HBD+VBD. Test circuit diagram OLT5/TC-D-5TC-02						
S2070171-504	63.56	31.10			1.0	31.10

Observations:  
During test : Nil abnormality.  
After test : Nil abnormality. All bus bars and supports intact. Fuse wire fuse intact.  
Remarks : After short circuit test the sample withstood 11V test at 2.5 kV rms for one minute as per standard.  
Conclusion : The test results indicate that the sample tested complies with the requirement of cl. 8.2.3 of the standard.



**CENTRAL POWER RESEARCH INSTITUTE**  
Switchgear Testing & Development Station  
Govindpura, Bhopal-23  
SUPPLEMENTARY TEST LABORATORY  
FUNCTIONAL TEST REPORT

27 AUG 2021

Test Report No. & Date	: CPRI/PP-5TNC2170/82
Customer's reference and address	: M/s. Supertech Control System, New Delhi
Manufacturer, his reference & address	: M/s. Supertech Control System, 628, Ind. Area, Upper Anand Purvat, New Delhi-110085
Particulars of apparatus tested	: Feeder Pillar Panel (Drytype)
Designation	: Nil
Type	: Nil
Identification No./Sample code No.	: STNC2150497
SI/No.	: SCS/CPRI/PP-55-01/21-22
Drawing No.	: SCS/CPRI/PP-55-01/21-22 Rev.No.00 sheet 1 of 1
Date (s) of test (s)	: 24 & 25 August 2021
No. of samples tested	: One
Test conducted	: Degree of Protection IP-55 (Category-II)
Particulars of test conducted	: The above test was conducted on the sample as per standard. The wire of specified diameter did not enter the enclosure. Small traces of powder observed inside the sample after IP-X5 test and No traces of water observed inside the sample after IP-X5 test. The manufacturer has submitted the drawing indicating the arrangement and spacing of hazardous parts or parts which might be affected by the penetration of foreign objects or water.
Test in accordance with standard/ Specification	: As per cl. 12.2, 13.4, 13.5, 14.2.3 of IS: 60629:2013 and customer's requirement
Customer's requirements/deviation if any	: Nil
Customer's representative	: Mr. Gaurav Teli
Other than Customer's representative	: Nil

TEST ENGINEER: [Signature]  
JOINT DIRECTOR: [Signature]

Note:  
1) This is self-appraised report. The test lab report along with drawings and other documents will be provided.  
2) The test is conducted on the basis of the test report issued.  
3) Certifications are available for the test report.

# CERTIFICATE OF REGISTRATION



**Certificate of Registration**

This is to certify that

**SUPERTECH CONTROL SYSTEMS**

Registered Office :- 624, Upper Industrial Area, Anand Parbat New Delhi -110005, India  
Works :- 256, Sec 38, Phase 1, HSIIDC Industrial Area, Sonapat, Rai - 131029, India

has been independently assessed by QRO  
and is compliant with the requirement of:

**ISO 9001:2015**

**Quality Management System**

For the following scope of activities:

**Manufacturers of LT Panels, PLC based MCC Panels, Scada Systems, VFD Panels, PCC Panels, Synchronized Panels, Bus Ducts, Cable Tray and Raceways**

Date of Certification: 30th May 2022  
1<sup>st</sup> Surveillance Audit Due: 29th May 2023

2<sup>nd</sup> Surveillance Audit Due: 29th May 2024  
Certificate Expiry: 29th May 2025

**Certificate Number: 305022053009Q**



*Chandra...*  
Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit.  
(In case surveillance audit is not allowed to be conducted this certificate shall be suspended / withdrawn).  
The Validity of this certificate can be verified at [www.qrocert.org](http://www.qrocert.org)  
This certificate of registration remains the property of QRO Certification LLP and shall be returned immediately upon request.

India Office : QRO Certification LLP  
142, 11nd Floor, Avtar Enclave, Near Paschim Vihar West Metro Station, Delhi-110063, (INDIA)  
Website : [www.qrocert.org](http://www.qrocert.org), E-mail : [info@qrocert.org](mailto:info@qrocert.org)

# CERTIFICATE OF REGISTRATION



## CENTRAL POWER RESEARCH INSTITUTE

Switchgear Testing & Development Station  
Govindpura, Bhopal- 23

**SUPPLEMENTARY TEST LABORATORY**  
**PROVISIONAL TEST REPORT**

27 AUG 2021

Test Report No. & Date : CPRIBPLSTNC21T0182

Customer his reference and address : M/s. Supertech Control System, New Delhi

Manufacturer, his reference & address : M/s. Supertech Control System,  
624, Ind. Area, Upper Anand Parvat,  
New Delhi-110005

Particulars of apparatus tested : Feeder Pillar Panel (Empty)

Designation : Nil

Type : Nil

Identification No./Sample code No. : STNC21S0497

Sl.No. : SCS/CPRI/IP-55-01/21-22

Drawing No : SCS/CPRI/IP-55-01/21-22 Rev.No.00 sheet 1 of 1  
(Drawing to be revised and verified)

Date (s) of test (s) : 24 & 25 August 2021

No.of samples tested : One

Test conducted : Degree of Protection IP-55 (Category-II)

Particulars of test conducted : The above test was conducted on the sample as per standard. The wire of specified diameter did not enter the enclosure. Small traces of powder observed inside the sample after IP5X test and No traces of water observed inside the sample after IP-X5 test. The manufacturer has submitted the drawing indicating the arrangement and spacing of hazardous parts or parts which might be affected by the penetration of foreign objects or water.

Test in accordance with standard/ Specification : As per cl. 12.2, 13.4,13.5, 14.2.5 of IS/IEC 60529:2013 and customer's requirement

Customer's requirement/deviation if any : Nil

Customer's representative : Mr. Gaurav Tuli

Other than Customer's representative : Nil

  
TEST ENGINEER

Note:

- This is only a provisional report. The final test report along with drawings and other documents will be issued separately.
- The results are not binding on the testing authority until the final test report is issued.
- Corrections/erasing invalidate the test report.

  
JOINT DIRECTOR

संयुक्त निदेशक  
Joint Director  
केन्द्रीय विद्युत अनुसंधान संस्थान  
Central Power Research Institute  
निदेशक एवं प्रमुख परीक्षा अधिकारी  
17022, Govindpura & Govindpura Road  
गोविन्दपुरा, भोपाल - 462023  
दूरभाष नम्बर: 867 022

# CERTIFICATE OF REGISTRATION



Tel. No.0755-2586343  
Fax No. 0755 – 2587774  
Email: cpribpl@sancharnet.in

## CENTRAL POWER RESEARCH INSTITUTE GOVINDPURA : BHOPAL – 462 023

### PROVISIONAL REPORT

27 AUG 2021

Test Report No.CPRIBPLSTNBMISC21T0133

Date of test: 24 August 2021

1. **Customer:** M/s Supertech Control Systems, New Delhi- 110005
2. **Sample tested:** 415 V, 4000 A, LV Panel (Non Extendable)
3. **Serial Number:** SPC/CPRI/STC01/21-22
4. **Sample Code No.:** STNBMISC21S0363
5. **Type:** Short circuit test 50kA
- 5.1 **Designation:** Nil
6. **Drawing Number:** SCS/CPRI/STC-01 Sheet 1 of 2 & SCS/CPRI/STC-01 Sheet 2 of 2  
(Drawings to be revised and verified)
7. **Rating of the Sample:**
  - 7.1 **Rated Voltage :** 415 V
  - 7.2 **Rated Current :** 4000 A
  - 7.3 **Rated Insulation voltage :** 660 V
  - 7.4 **No. of phases :** Three phase + Neutral
  - 7.5 **Degree of protection :** IP 42
  - 7.6 **Form of separation:** 3B
  - 7.7 **Material group:** 1
  - 7.7 **Rated short time current:** 50 kArms for 1.0 second with initial peak of 105 kA
8. **Sample tested for the following ratings:**
  - 8.1 **Voltage :** 415 V
  - 8.2 **Current :** 4000 A
  - 8.3 **Insulation voltage :** 660 V
  - 8.4 **Short time current:** 50 kArms for 1.0 second with initial peak of 105 kA
- 9 **Type of test carried out:** Verification of short circuit withstand strength test
- 10 **Specification followed:** As per customer's requirement and procedure as per cl.10.11.5.3.3 & 10.11.5.3.5 of IS/IEC: 61439-1, 2011 & IS/IEC: 61439-2, 2011
- 10.1 **Customer's requirement** STC test conducted on circuit busbars only.
- 11 **Test results:**

Oscillogram No.	Short time current in kApk/kArms			Duration in second	Equivalent current for 1.0 second in kArms
	R	Y	B		
CPRIBPLSTNB MISC21T0133S002	105.93/50.67	50.59	50.43	1.0	50.67
(Three phase short circuit withstand strength test conducted on circuit busbars consisting of VBB+HBB+VBB)					
CPRIBPLSTNB MISC21T0133S004	63.94/30.58			1.0	30.58
(Single phase short circuit withstand strength test conducted on neutral & nearest phase of circuit busbar consisting of VBB+HBB+VBB)					

**Observations:** No abnormality. Fine wire fuse intact. All busbars & supports found intact.

**Remarks:** After test, the sample withstood HV test at 1.0 kVrms for five second.

TEST ENGINEER

*This is only a provisional report. The final report alongwith drawings and other documents will be issued separately within one month from the date of test.*

LABORATORY IN-CHARGE  
Engineering Officer

केन्द्रीय विद्युत अनुसंधान संस्थान  
Central Power Research Institute  
स्विचगियर परीक्षण तथा विकास केन्द्र  
Switchgear Testing & Development Station  
गोविन्दपुरा, भोपाल  
Govindpura, Bhopal - 462023



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Doddaballapur-561 203  
Bengaluru District

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☎ +91 (080) 3372 0866  
✉ info@rittal-india.com  
🌐 www.rittal-india.com  
DAL 031308A19AFT000641

8<sup>th</sup> June, 2022

## CERTIFICATE

We, Rittal India Pvt. Ltd., (a 100% subsidiary of Rittal GmbH & Co, Germany) having a registered office at Doddaballapura, Bengaluru, are reputed manufacturers of Enclosures & Accessories for Low Voltage Electrical Systems.

We certify that, our power distribution enclosures are Completely Design verified as per IEC 61439 1&2 and certified by ASTA.

We are authorizing "M/s. **Supertech Control Systems** " registered address at 256, Rai Industrial Area, Sonipat, Haryana for Rittal Power Distribution solutions which are Completely Design verified as per IEC 61439 1&2 and certified by ASTA.

Same Will comply (Design Verified) under Rittal Technical team guidance for the below Specific Project.

**Project - NBCC**

The certificate is valid till **31<sup>st</sup> Dec 2022**.

With regards,

  
**D Ramesh Babu**  
**AGM Channel Management**



ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# MSME REGISTRATION CERTIFICATE

5/28/2020

<https://udyogaadhaar.gov.in/UA/PrintAcknowledgement.aspx>

		भारत सरकार Govt. of India सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES																			
		उद्योग आधार		Udyog Aadhaar																	
<h2 style="color: green;">A</h2>		<table border="1"> <tr> <td>Type of Enterprise</td> <td>Micro</td> <td>Small</td> <td>Medium</td> </tr> <tr> <td>Manufacturing</td> <td>A</td> <td>B</td> <td>C</td> </tr> <tr> <td>Services</td> <td>D</td> <td>E</td> <td>F</td> </tr> <tr> <td>UAM No.</td> <td colspan="3">DL01A0011894</td> </tr> </table>		Type of Enterprise	Micro	Small	Medium	Manufacturing	A	B	C	Services	D	E	F	UAM No.	DL01A0011894				
Type of Enterprise	Micro	Small	Medium																		
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Services	D	E	F																		
UAM No.	DL01A0011894																				
<b>Udyog Aadhaar Registration Certificate</b>																					
Udyog Aadhaar Number		DL01A0011894																			
Name of Enterprise		SUPERTECH CONTROL SYSTEM																			
Location of Plant Details																					
SN	Flat/Door/Block No.	Name of Premises/Building Village	Road/Street/ Lane	Area/Locality	City Pin State District																
1	624, INDUSTRIAL AREA	ANAND PARVAT SUPERTECH CONTROL SYSTEM	624, INDUSTRIAL AREA ANAND PARVAT	ANAND PARVAT	DELHI 110005 DELHI CENTRAL																
Official Address of Enterprise		624, INDUSTRIAL AREA ANAND PARVAT, SUPERTECH CONTROL SYSTEM, 624, INDUSTRIAL AREA ANAND PARVAT, ANAND PARVAT, DELHI																			
District		CENTRAL	State	DELHI	PIN 110005																
Mobile No:		9953700172	Email:	gauravtuli4@gmail.com																	
Date of commencement		04/02/2005																			
Major Activity		MANUFACTURING																			
Enterprise Type		Micro																			
Previous Registration details-if any		::																			
National Industry Classification Code																					
SN	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit Code		Activity Type																
1	27 - Manufacture of electrical equipment	2710 - Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus	27104 - Manufacture of electricity distribution and control apparatus (electrical apparatus for switching or protecting electrical circuits (e.g. switches, fuses, voltage limiters, surge suppressors, junction boxes etc.) for a voltage exceeding 1000 volts; similar apparatus (including relays, sockets etc.) for a voltage not exceeding 1000 volts; boards, panels, consoles, cabinets and other bases equipped with two or more of the above apparatus for electricity control or distribution of electricity including power capacitors.)		Manufacturing																
2	27 - Manufacture of electrical equipment	2732 - Manufacture of other electronic and electric wires and cables	27320 - Manufacture of other electronic and electric wires and cables (insulated wire and cable made of steel, copper, aluminium)		Manufacturing																
Acknowledgement		Date of Filing	28/05/2020	Date of Printing	28/05/2020																
Disclaimer: This is computer generated statement, no signature required. Printed from <a href="http://udyogaadhaar.gov.in">udyogaadhaar.gov.in</a>																					
MyMsme Mobile App (Beta Version) is available now for download. <a href="https://play.google.com/store/apps/details?id=msme.mymsme">https://play.google.com/store/apps/details?id=msme.mymsme</a>																					







## CNC Press Brake

that allow for faster bending with the better return and back gauge. CNC Press Brake will allow you to mass produce precision parts effectively and decrease your cost per part.



## Swing Beam

shears to offer smooth, precise cuts whether you are cutting thin or thick material. The SmartCut series provides high strength, productivity, sensitivity, and safety while lowering your production cost and improving your bottom line.



## Bus bar

processing machine have punching, bending, cutting on copper and aluminum bus bar.



# LIST OF TOOLS

<b>TOOLS</b>	<b>QTY</b>
<b>CNC PRESS BRAKE 63 TON</b>	<b>1.00</b>
<b>CNC SHEARING MACHINE 4MM</b>	<b>1.00</b>
<b>HYDAULIC SHEARING MACHINE</b>	<b>1.00</b>
<b>HYDAULIC PRESS BRAKE MACHINE</b>	<b>3.00</b>
<b>MIG WELDING MACHINE BUSBAR BENDING MACHINE</b>	<b>5.00</b>
<b>WELDING SET</b>	<b>5.00</b>
<b>DRILL MACHINE</b>	<b>5.00</b>
<b>HAND DRILL MACHINE</b>	<b>4.00</b>
<b>HAND PRESS</b>	<b>5.0</b>
<b>TAPPING MACHINE</b>	<b>3.00</b>
<b>ANGLE CUTTER</b>	<b>2.00</b>
<b>HAND GRINDER 7"</b>	<b>3.00</b>
<b>HAND GRINDER 5"</b>	<b>2.00</b>
<b>HAND GRINDER 4"</b>	<b>*4.00</b>
<b>HIGH VOLTAGE TESTER</b>	<b>2.00</b>
<b>DIGITAL MEGGER</b>	<b>2.00</b>
<b>AIR COMPRESSOR</b>	<b>2.00</b>



# WE ASSURE

- 1. Project executed by SUPERTECH CONTROL SYSTEMS is problem free. There will be no compromise with work & quality. We say with pride and confidence that we are unmatched in our field.**
- 2. If given an opportunity we would expedite your work with full sincerity and your utmost satisfaction.**
- 3. We are always committed to time bound services round the clock.**
- 4. We also assured you the best competitive price as compared with latest market price with cost economy & effectiveness. The pre qualification document is enclosed for your reference. If you require any further information / clarification you are always welcome to contact us**

We would be obliged if you kindly register us:-

"FOR DESIGN, MANUFACTURE, SHOP TESTING, SUPPLY OF CUSTOM-BUILT  
LOW  
VOLTAGE SWITCHGEAR PANELS / BOARDS & AMF PANELS"

With regards,  
S.K.TULI



# **SUPERTECH CONTROL SYSTEMS**

[www.supertechcontrolsystems.com](http://www.supertechcontrolsystems.com)

624, UPPER INDUSTRIAL AREA ANAND PARBAT  
NEW DELHI-110005  
9953700172, 9811240951

**(C.P.R.I APPROVED 2000 AMP and IP- 55)**