



# **SWITCHING CIRCUITS**

**CONSULTANT & MANUFACTURER  
OF ELECTRICAL & ELECTRONIC  
CONTROL SYSTEMS.**

**S-15, KASBA INDUSTRIAL ESTATE  
PHASE-III KOLKATA-700 0107**

**Mo:9830263133; 9836828157**

**E-MAIL: [switchingcircuits@gmail.com](mailto:switchingcircuits@gmail.com)  
[dkbswckts@yahoo.co.in](mailto:dkbswckts@yahoo.co.in)**

## **BRIEF ORGANISATIONAL WRITE UP**

**Organisation was started as SSI/MSME unit during the year 1977-78 and presently having composite complex housing factory plus office under single roof.**

**Name of Partner : 1) **Dipak Kumar Basak**  
**M.E. TEL.E****

**: 2) **Prabir Kumar Mandal**  
**B.E. TEL.E.****

### **OUR AIM :**

- 1) To Maintain Quality**
- 2) To Execute Orders in Time**
- 3) To Provide After Sales Services**
- 4) To Obtain Feed Back from Customer for futher improvement of product.**

**Result : We have achieved customers confidence and awarded with Repeat orders from leading reputed organisations to attain growth which is self explanatory as per enclosed list of customers.**



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## ORGANISATION CHART

### MAN POWER

1.	Works Manager	:	1
2.	Store Keeper	:	1
3.	Testing Engineer + Quality Assurance Co-ordination	:	2
4.	Skilled Wireman with Knowledge of Interpretation of Engineering drawing and testing of control ckt. Prior To final testing	:	4
5.	Semi Skilled Worker	:	2
6.	Skilled PCB & Electronic Sub-System Assembler	:	2
7.	Mechanical Fitter	:	1
8.	Testing Engineer	:	1
9.	Draughtsman	:	1
10.	Office Staff	:	2
11.	Night Watchman	:	1

### PARTNERS (ENGINEERS) LOOK AFTER THE FOLLOWING:

1. **Dipak Kumar Basak, M.E . TEL .E . : Design & Development; Quality Assurance**
2. **Prabir Kumar Mondal, B.E . TEL . E . : Production Planning & Commercial Matters .**

### QUALITY ASSURANCE PERSONNEL

1. **Asit Kumar Sen**
2. **Rudra Sankar Basak (Also Engineering Assistant to both the Partners )**

### CONTROL & AUTOMATION PERSONNEL

- 1 Dipak Kumar Basak M.E.Tel.E
- 2 Rudra Sankar Basak B.Tech



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**Equipments are available with us for testing and assembling of Electrical & Electronic Equipments/Systems.**

<u>Sl. No.</u>	<u>Description</u>	<u>Covered Area- 7500 Sq.ft(Approx)</u> <u>Installed at Kasba Works</u>
1.	Portable Drilling M/C. of Various Capacity	-do-
2.	Magnetic Chuck Drilling M/C of I6 mm Capacity	-do-
3.	Hand Operated Crimping Tool	-do-
4.	Magnetic Paint Test to check paint thickness	-do-
5.	High Voltage Test Set	-do-
6.	1000V. Meggar	-do-
7.	3.5 KVA Diesel Generating set	-do-
8.	Ball press	-do-
9.	Primary Current Injection Set 800 A Single Phase	-do-
10.	Contact Drop Monitor to Check Healthiness of Busbar Joint, Termination etc.	-do-
11.	Filler Gauge	-do-



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<u>Sl. No.</u>	<u>Description</u>	<u>Installed at Kasba Works</u>
12.	Portable Ammeter	-do-
13.	Portable Voltmeter, 3 Element, Dynamometer Type, 3 Phase, 4 Wire Balanced Load	-do-
14.	28 Amps. 3 Phase Dimmerstat	-do-
15.	15 MHZ Dual Trace Oscilloscope	-do-
16.	Digital Frequency Counter	-do-
17.	Wolf Low Weight 1/4" Drill	-do-
18.	Paintlest for Measurement of paint thickness	-do-
19.	Pitte Travelling Trolley Type Drafting Machine	-do-
20.	Hot Airgun For Busbar Sleeving	-do-
21.	Multimeter	-do-
22.	Avometer	-do-
23.	PCXT with Build in Windows 95 coupled with Auto Cad Release 14 Version & Coloured Deskjet Printer	-do-
24.	HP Brio with Auto cad Release14	-do-
25.	Cannon Xerox Machine (NP-270) at office .	-do-



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**The Following Machineries are available at our works for Fabrication of  
MCC's, PDBs, Control Desk, Control Panels and other Enclosures.**

**Installed at Hanspukur Works      Covered Area: 3000 Sq.Ft.(Approx.)**

1.	Manually Operated Ball Press of Various Capacity	:	1	No.
2.	60 Ton Power Press + Dies	:	1	Lot
3.	Cam Floding M/C 8 Feet	:	2	Nos.
4.	Power Shearing- 8 Feet	:	1	No.
5.	Hand Shearing	:	1	No.
6.	Grinding M/C	:	1	No.
7.	Portable Grinding M/C	:	3	Nos.
8.	Bench Drill M/C	:	1	No.
9.	Portable Drill M/C.	:	2	Nos.
10.	Magnetic Chuck Drill M/C.	:	1	No.
11.	Welding M/C.	:	3	Nos.
12.	Gas Cutting Set	:	1	No.
13.	Various Dies & Tools	:	1	Lot
14.	Varnier	:	1	No.
15.	Micro Meter	:	1	No.
16.	1 Mtr Length Right angle	:	1	No.



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**The Following Machineries are available at our Hanspukur works for pre-treatment + Painting of MCCS PDBS, Control Desks, Control Panels and other enclosures.**

**Covered Area :**

**4000 Sq. Ft. (Approx.)**

		L	X	W	X	D
1. Tank for pretreatment with Neutralising Pit	8 nos-Size	2400mm		1800mm		1700mm
2. Stoving chamber	1 no- Size	2500mm		1800mm		1800mm
3. Power Coating Booth (Model No: IN III SL)	1 no- Size	2300mm		1200mm		1600mm
4. 5 HP Compressor with Moisture Separator	1 no					
5. 3 HP Jet Pump for Water Circulation	1 no					
6. 2 HP Pump for Sludge Removal	1 no					
7. Misc Electrical Panels + Other Items	1 no					
8. Digital Ph Value Measuring Instrument	1no					
9. Dial Type Analog Paint Thickness Measuring Instrument	1no					



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## ***MANUFACTURING ACTIVITIES:***

1. **Motor Control Centre (Fixed/Draw-out; Single/Double-front)**
2. **Power Control Centre**
3. **Mimic Panel/Desk with /without PLC**
4. **Capacitors Control Panels with Solid state APFC Relay**
5. **PLC Panel with PC Based SCADA/Panel mounted HMI**
6. **Power Distribution Board/PMCC.**
7. **ACDB**
8. **DCDB**
9. **MLDB,WDB,LIGHTING DB, LIGHTING PANELS**
10. **Push Button Station /Local Control Station**
11. **Power /Control/Instrument/Lighting Junction Boxes**
12. **Microprocessor based Alarm Annunciation System/Panel**
13. **Static Reactive Power Compensation Panel**
14. **DC UPS**
15. **SMPS based Battery Charger**
16. **Fire Fighting MCC with controller cum charger for Diesel driven main pumps.**
17. **Static Sine-wave Inverter up to 1 KVA with controllable output voltage & frequency.**
18. **Sequence Timer/Controller for On/Offline Bag-Filter(Solid-state/MicroController/PLC based**
19. **Digital Panel Meters (Ammeter, Voltmeter,Frequency, PowerFactor)**
20. **Clustered Led Type Lamp Holder for Panels & Mimic (Bi-Colour, Flashing Tricolour with built-in Lamp Test facility etc.)**

**Note :** 1) We are system House of ABB make PLC.



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## **LIST OF CUSTOMERS :**

1. ABB Ltd., Bangalore
2. Allen Bradly India Ltd., U. P.
3. Andrew Yule & Co. Ltd., Calcutta
4. APSEB; Nellore, T.P.S.
5. Associated Cement Co. Ltd., Thane
6. Alstom India Ltd., Calcutta
7. Bridge & Roof Co. (India) Ltd., Calcutta
8. Bharat Heavy Electricals Ltd. Delhi + Bangalore
9. British Oxygen Limited, Calcutta
10. Century Pulp & Paper Limited., Calcutta
11. Calcutta Electric Supply Corporation Ltd., Calcutta
12. Crompton Greaves Ltd., Calcutta
13. CMC Limited, Calcutta
14. DC Industrial plant Services Ltd., Calcutta
15. Damodar Valley Corporation
16. Elecon Engg. Co. Ltd., Gujrat
17. Emami Cement
18. Geo Miller (India) Ltd., New Delhi
19. GNDTPS- Punjab State Electricity Board.
20. GE Power
21. Himenviro Engineering Co.
22. Hindusthan Lever Limited, Haldia
23. Ingersollrand (I) Ltd., Calcutta
24. ION Exchange Limited, Calcutta & Pune
25. I.F.B. Agro Industries Ltd., Calcutta
26. IFFCO Paradeep
27. Jaypee Cement
28. JSPL





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29. **K G Khosla Compressors Ltd., Pune**
30. **Larsen & Toubro Ltd., Kolkata.**
31. **McNally Bharat**
32. **Macawber Beekay**
33. **Nagpur Alloy Castings Ltd., Steel Plant Division, M.P.**
34. **NICCO Corporation Ltd.**
35. **NTPC Ltd.**
36. **NGSL**
37. **Orissa Sponge Iron Ltd., Keonjhar, Orissa**
38. **OTTO India Ltd., Calcutta**
39. **Porel Dass Water & Effluent Control Pvt. Ltd.**
40. **Reliance Cement**
41. **SAIL**
42. **Sainik Mining And Allied Services Ltd.**
43. **SMS India Ltd., Calcutta**
44. **Tata Steel Ltd., Jamshedpur and Kalinganagar**
45. **Telecom Department, Calcutta**
46. **TRF Limited, Jamshedpur**
47. **Tinplate Co. of India Ltd., Jamshedpur**
48. **Tata Ryer Son India Ltd., Calcutta**
49. **UCC (I) Limited, Calcutta**
50. **Voltas Limited, Kolkata**
51. **WBPDC**
52. **WPIL**



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**GALLERY :**

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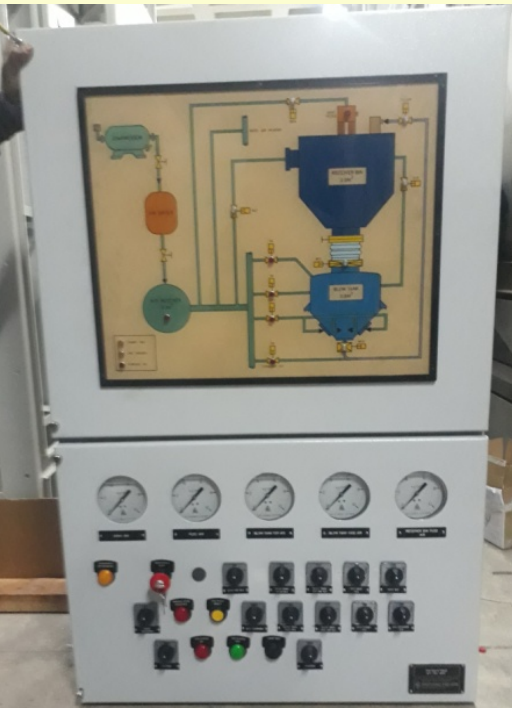
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[info@switchingcircuits.com](mailto:info@switchingcircuits.com) (under construction)  
[swckts@cal3.vsnl.net.in](mailto:swckts@cal3.vsnl.net.in) (discontinued)**

**Website :- [www.switchingcircuits.com](http://www.switchingcircuits.com) (under construction)**

**Phone Number :- Mr. Dipak Kumar Basak – 9830263133  
6290152592**

**Mr. Prabir Kumar Mandal – 9830055007**

**Mr. Rudra Sankar Basak – 9836828157**



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## ANNEXURE – 1

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### LIST OF PLC PANELS SUPPLIED TILL DATE

Name of Enduser	Item Supplied	Remarks
Sun Flag Iron & Steel Ltd Maharashtra	Control Panel with PLC & SCADA (ESOS)	Commissioned
Tata Iron & Steel Ltd Jamshedpur	Control Panel with PLC	Commissioned
Bhusan Steel Ltd Mehramandali, Orissa	PLC Panel	Commissioned
SAIL : Bhilai Steel Plant Bhilai M.P	Control Panel with PLC	Commissioned
SAIL : Rourkela Steel Plant Orissa	MCC with PLC	Commissioned
Alloy Steel Plant Durgapur	PLC Panel with SCADA (ESOS +OS) & Instrumentation Package	Commissioned
Reliance Cement Co. Ltd. Orissa	Sequence Controller with PLC for Bag House	Commissioned
Jaypee Cement Corporation Ltd. Karnataka	Sequence Controller with PLC for Bag House	Commissioned
CGCRI, Kolkata	PLC Panel with AC800M Hot- Redundant PLC	Commissioned
NALCO CPP-8, Angul	PLC Panel with AC800M Hot-Redundant PLC, SCADA with One ESOS + One OS	Commissioned
Jaypee Cement Corporation Ltd. Andhra Pradesh	2 Nos. PLC Panel with HMI for RABH	Commissioned
SAIL:IISCO Burnpur Asansol, W.B	4 Nos. PLC Panel for Paddle Feeder & Spare module	Commissioned
Jai Balaji Industries Durgapur, W.B	AC800M PLC Spare Modules	Commissioned
Jaypee Cement Corporation Ltd. Gujarat	2 Nos. PLC Panel with HMI unit for RABH	Commissioned
SAIL:IISCO Burnpur Asansol, W.B	AC31 PLC & Spare Modules	Commissioned
Tata Steel Ltd.	AC500 PLC	Commissioned
Jaypee Cement Corporation Ltd. Dalla	PLC Panel with HMI	Commissioned
SAIL:IISCO Burnpur Asansol, W.B	2 Nos. Remote I/O Panel for WG & PD ESP	Commissioned
Chandra Engineering Works	AC500 PLC + HMI + Programming & Communication Cable	Commissioned



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Name of Enduser	Item Supplied	Remarks
Jaypee Cement Corporation Ltd.	PLC Panel with Rittal	Commissioned
Jusco Ltd.	PLC Panel	Commissioned
Gujarat Anjan Cement Ltd. Bhuj, Gujarat	PLC Panel with HMI & accessories	Commissioned
Metro Cash & Carry, Kolkata	2 Nos. PLC Based Electrical Panel	Commissioned
Jaypee Cement Corporation Ltd. Dalla	2 Nos. PLC Panel with Rittal Enclosure for RABH & CMBF	Commissioned
Jaypee Cement Corporation Ltd. Sidhi	2 Nos. PLC Panel with Rittal Enclosure & HMI for RABH	Commissioned
Birla Cement Plant, Satna	2 Nos. Mini PLC Panel	Commissioned
Lanco Amarkantak Power Pvt. Ltd.	2 Nos. PLC Panel with HMI & SCADA (ESOS) for Main Building & Service Building	Commissioned
KLG Systel Limited	Data Logger PLC Panel	Commissioned
Lanco Amarkantak Power Pvt. Ltd.	12 Nos. Micropocessor Based PLC Panel	Commissioned
Shree Cement Ltd. Rajasthan	Mini PLC Panel + Programming Cable	Commissioned
Schemex Consultants Pvt. Ltd.	PLC Based Control Panel	Commissioned
Schemex Consultants Pvt. Ltd.	PLC Panel with HMI & VFD	Commissioned
Universal Leather Agency	PLC System Panel for Vacuum Drier	Commissioned
Shree Cement Ltd. Rajasthan	Mini PLC Panel + Programming Cable	Commissioned
Jaypee Cement Corporation Ltd. Bagheri, H.P	2 Nos. PLC Panel	Commissioned
Shree Cement Ltd. Rajasthan	Mini PLC Panel	Commissioned
Jindal Steel & Power Ltd.	PLC System Panel for Sintering Process & Dedusting System	Commissioned
Jindal Vijayanagar Steel Ltd.	PLC System Panel for Sintering Process & Dedusting System	Commissioned
Chettinad Cement	10 Nos. Mini PLC	Commissioned



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Name of Enduser	Item Supplied	Remarks
Schemex Consultants Pvt. Ltd.	2 Nos. PLC Based Control Panel for DTP System & SHP System	Commissioned
Shatabdi Cement Siliguri, W.B	PLC Cum VFD Panel for ASH Handling System	Commissioned
Jaypee Cement Corporation Ltd. Bela	2 Nos. Mini PLC Control Panel	Commissioned
Shree Cement Ltd. Rajasthan	Micro PLC Control Panel	Commissioned
CESC Ltd. Budge Budge	Common PLC Panel with AC800M Hot-Redundant PLC, SCADA with One ESOS for 4 Nos. Compressor	Commissioned
IFFCO, Paradip	AC800F DCS with Panel & Spares+Operator Station Hardware+OPC Software for DAP Plant	Commissioned
IFFCO, Paradeep	AC800F DCS Spares for DAP	Commissioned
Tata Steel Ltd Kalinganagar, Orissa	PLC Panel with AC800M Hot-Redundant PLC, SCADA with One ESOS + One OS for ESP	Commissioned
TIET, Patiala	PLC Panel with SCADA (ESOS)	Commissioned