SATCON

(COMPANY PROFILE)

(Electrical Design, Engineering & Consultancy Services)
ISO 9001:2008 CERTIFIED

We Think Quality

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A. INTRODUCTION

We are pleased to introduce ourselves as Electrical Design Engineers & Consultants for basic engineering, pre-bid estimation engineering and detail engineering services for Electrical, Controls, Protection, Substation Automation and associated Civil/Structural works of following type of projects:

1. **Gas Insulated/Conventional indoor/outdoor substations from 11kV up to 400kV.**
2. **Electrical portion of Thermal power plants (Oil/coal/gas fired), Electrical B.O.P packages.**
3. **Overhead distribution lines up to 33kV.**
4. **Electrical, Control on and Automation portion of :**

   Steel, Minerals, Coal, Materials Handling, Mining and misc. industrial projects.
5. **Substation Automation, SCADA and telecommunication systems for large substations.**

Our personnel have experiences in similar projects in India and abroad.

SATCON was established in the year 2004. At present it is providing design engineering services in various projects in India, Afghanistan, Africa and Middle East countries. In many of its projects SATCON is providing their services as Contractor's consultant which requires intensive engineering skill in order to optimize system and equipment. SATCON has agreements with the following overseas Companies to provide technical support in design engineering services:

1. TOP DEVELOPMENT CONSULT, a Saudi Arabian engineering firm.
2. AHMIN TECHNOLOGY & POWER SYSTEMS LTD., NIGERIA.
3. ASAS ENGINEERING & PROJECT MANAGEMENT CONSULTANCY EST., UAE
4. ATLAS INTERNATIONAL ENGINEERING CONSULTANTS, OMAN.
5. ASSIST CONSULTANTS INC., KABUL, AFGHANISTAN

We can provide Project management, monitoring, progress review and supervision of erection, testing and commissioning by deputing senior engineers at site.

B. EXPERTISE & CAPABILITIES

We provide the following services in electrical and associated civil/structural/Mechanical/Substation Automation works for the above mentioned type of projects:

1. Electrical System Engineering

System engineering consisting of engineering drawings, design calculations and equipment/systems specifications for electrical equipment and systems.

a. **Engineering drawings:** Single line diagrams, three line diagrams, relay & metering diagrams, breaker/disconnects/ground switch control schematics. Electrical layouts consisting of equipment layout, switchyard layouts, grounding / shielding / lighting / cable / cable tray layout, erection key diagrams, BOM for switchyard hardwares/clamps/connectors/HV & LV cables/grounding & lightning protection materials/lighting materials/cabling accessories, I/O lists, Plant control logic, PLC/SAS block diagrams, HV & LV power & control cable schedule & interconnection diagrams.

b. **Equipment specifications:** For various EHV/HV and LV Electrical equipment and systems (from 240V to 400kV).

c. **Design calculations:** Load flow, short circuit, motor starting, transformer sizing, ground grid design & protection coordination calculations using ETAP software, total maximum demand calculation of an Industry and corresponding Transformer sizing, DSLP (Direct stroke lightning protection) calculations, Lighting calculations, Calculation for CT/PT sizing, NGR and earthing transformer sizing, voltage drop calculations, HV & LV power cable sizing, Capacitor sizing for P.F improvement, Sag & Tension calculation, Short circuit force calculation on strained bus and rigid bus.

d. **Software used :** Autocad 2009/12/13, ETAP 7.0 and MS Office.

e. **MV Switchboard Engineering :** Preparation of technical details, master signal line diagrams, panel GA and foundation plan, LV compartment door layout, breaker control schematics and wiring diagrams, equipment list and terminal plan of 6.6 / 12 / 36 KV indoor switch gear panel using automated wiring software **AutoCAD Electrical 2009.**

f. **Control and Relay Panel Engineering :** Preparation of protection and metering SLD, three line diagrams, control schematics and wiring diagrams, equipment list, panel GA and foundation plan and terminal plan for 33 / 132 / 220 / 400 KV control & relay panels (conventional / with BCU) using automated wiring software **AutoCAD Electrical 2009.**

2. Civil/Structural

a. Civil/Structural/Architectural design and detail drawings of tower, gantries, equipment structures and foundations, Control room/DG/fire fighting pump house / Security/Store/Staff Quarter buildings, fire water reservoir, transformer foundation-cum-oil collection pit, common oil pit, oil-water separator pit, outdoor/indoor cable trenches, switchyard roads & drainage system, switchyard fence & gate. Civil/structural design calculations are made using STAAD software.

b. Preparation of structural GA drawings for switchyard gantry/beam/equipment support structures.

3. Mechanical System Engineering

Design calculations and layout/schematic drawings, BOQ and technical specifications for Air conditioning, Ventilation, fire fighting systems.

4. Substation Automation System, Telecommunication System

Preparation of layout/schematic/block diagrams, I/O List, BOQ and technical specifications for SCADA based Substation Automation System (SAS) and FO/PLCC based telecommunication and teleprotection system.

5. Tender evaluations, recommendations to client and providing assistance to client for procurement of various electrical equipment and works for the above mentioned type of projects.

6. Vendor drawing review and approvals/coordination with vendors for equipment finalizations.

7. Detail engineering: Modifications/finalization of preliminary engineering/drawings with respect to actual equipment supplied.

8. Inspection & testing of electrical equipment at manufacturer's works.

The design and engineering work will be executed in line with client's standards and specifications, national/international codes & standards like IS/ANSI/IEC/NEC/NFPA etc. as required.

C. THE DIRECTOR

Satyaki Mukherjee, Bachelor of Electrical Engineering (Jadavpur University), Fellow of Inst. of Engineers (FIE), MIEEE, Chartered Engineer – (Experience – 26 years in Industrial power generation, EHV transmission and distribution substations, Industrial power distribution Projects)

The Proprietor of SATCON is an Electrical Engineer from Jadavpur University, Kolkata in 1989. He has worked in Development Consultants Pvt. Ltd., Kolkata (DCPL), a well-known transnational Consultancy Company for 11 years, in Kuljian Corporation, Philadelphia and in Saudi Electricity Co. (SEC)-East, KSA for 4 years. He started SATCON in Kolkata in the year 2004 after his return from KSA. He has experience in providing Consultancy services in India, USA, Saudi Arabia, Nigeria, UAE, Oman, Qatar and Sudan in last 26 years. He remains involved in each and every engineering activity in order to guarantee proper quality before submission to Clients.

Resources : Three (3) Sr. Electrical Engineers, Three (3) electrical design engineers, Two (2) senior Civil/Structural Engineer, One diploma engineer, Three (3) drafting personnel. We have civil, structural, electronics, telecommunication and mechanical engineers to execute all aspects of EHV substation, Overhead lines and electrical power distribution systems (HV/MV/LV) of large industrial and infrastructural projects.

CV of other senior engineers are attached.

D. CURRENT PROJECTS (Within India)

SL. NO.	NAME OF PROJECT	NAME OF CLIENT	NAME OF END CLIENT	P.O DATE
1.	Basic and Detail engineering (electrical, civil, structural) for installation of 2x500MVA 400/220kV Transformer bay extension and 1x125MVAR Bus reactor at Maithon, 1x500MVA 400/220kV Transformer bay extension at Mujaffarpur and 1x160MVA 220/132kV Transformer bay extension of Ara substation of PGCIL in Eastern Region.	Toshiba Transmission & Distribution India Ltd., Hyderabad	Power Grid Corporation of India Ltd.	09.12.2014
2.	Basic and Detail engineering (Electrical) for 400/220/132kV Outdoor substation of APTRANSCO at Jammalamadugu in A.P, India.	Techno Electric & Engg Co., Kolkata	AP Transco	11.09.2013
3.	Complete design & engineering (electrical, civil, structural, SAS, PLCC) services including survey and geotechnical investigation, procurement assistance, drawing review for 220/132/33kV AIS grid station at Chatra, Jharkhand.	Flowmore Ltd., Ranchi	Jharkhand Urja Sancharan Nigam Ltd. (JUSNL)	03.08.2013
4.	Complete design & engineering (electrical, civil, structural, SAS, PLCC) services including survey and geotechnical investigation, procurement assistance, drawing review for 132/33kV AIS grid station at Tamar, Jharkhand.	Flowmore Ltd., Ranchi	Jharkhand Urja Sancharan Nigam Ltd. (JUSNL)	24.09.2013
5.	Basic and Detail engineering (Electrical) for 132/33kV Outdoor substation of WBSETCL at UAJNU and 1 no. 132kV Line bay extension at 8 nos. existing substations, West Bengal.	Mcnally Bharat Engineering Co. Ltd., Kolkata	West Bengal State Electricity Transmission Co. Ltd. (WBSETCL)	25.09.2013
6.	Detail engineering services for electrical power distribution system of Flue Gas Desulphurization (FGD) system of 1x500MW Thermal power plant of NTPC, Vindyachal.	Alstom Ltd., Kolkata	National Thermal Power Corporation (NTPC)	17.12.2014
7.	Basic and Detail engineering (Electrical and structural) for 33/6.6kV Substation of 1.6MTPA Coal Washery of BCCL at Dahibari, Dhanbad	MBE Coal and Mineral Technology India Pvt. Ltd.	Bharat Coking Coal Ltd. (BCCL, Dhanbad)	31.07.2014
8.	Basic and Detail engineering (Electrical, civil and structural) for 33/11kV Power Substation of South Bihar Power Distribution Co. Ltd. at Aurangabad	Supreme & Co. Pvt. Ltd., Kolkata	South Bihar Power Distribution Co. Ltd.	04.11.2014
9.	Preparation of Lighting design calculation	Techno Electric &	National Thermal	27.05.2014

SL. NO.	NAME OF PROJECT	NAME OF CLIENT	NAME OF END CLIENT	P.O DATE
	and lighting layout drawings for 400/132kV switchyard and control building at 2x660MW NTPC, Meja power plant	Engg Co., Kolkata	Power Corporation (NTPC)	

E. CURRENT PROJECTS (Outside India)

SL. NO.	NAME OF PROJECT	NAME OF CLIENT	NAME OF END CLIENT	P.O DATE
1.	Prebid engineering services (electrical, civil, structural) for four (4) nos. 220/20kV outdoor substation at Qarabagh, Mokor, Shah Joy and Qalat, 220/110/20kV outdoor substation at Kandahar East, 220kV SVC and RPC bay extensions at existing Chimtala, Sayedabad, Ghazni substations, Afghanistan	Kalpataru Power Transmission Ltd., Mumbai	DABS, Afghanistan	31.03.2015
2.	Basic and Detail Engineering services for electrical, civil & structural works of 220/22kV Pule Alam Substation, 110/20kV Pushmol and 110/20kV Mainwand Substations of US Army Corps in Afghanistan	Assist Consultants Inc., Afghanistan	DABS, Afghanistan	05.02.2015
3.	Review and preparation of SLD, schematics drawings and electrical design calculations (Load flow study, Short circuit study, MV/LV cable sizing calculation, Earthing calculation, Lightning protection risk assessment study and LPS calculations) for entire 22/0.433kV power distribution system of New Port Project (NPP0032)near Doha in Qatar	Transgulf International Electro Mechanical WLL, Qatar	State of Qatar, New Port Project	06.08.2014
4.	Preparation Ligtning protection risk assessment calculations and verification of Earthing and Lightning protection layout drawings for Support facility buildings of New Port Project (NPP0032)near Doha in Qatar	Shapoorji Pallonji Qatar WLL	State of Qatar, New Port Project	08.062015
5.	Preparation of tender document and tender drawings for 132/33kV, 2x125MVA GIS substation at Sinaw and 132/33kV, 2x63MVA GIS substation at Samad of OETC, Oman	Atlas International Engineering Consultants	Oman Electrical Transmission Co. (OETC)	21.01.2015
6.	Preparation of tender document and tender drawings for 33/11kV, 2x20MVA GIS substation at Rusayl-09 of MEDC, Oman	Atlas International Engineering Consultants	Muscat Electricity Distribution Co. (MEDC), Oman	21.01.2015
7.	Basic and Detail engineering for 132/33kV, 2x60/66 MVA AIS outdoor substation at Dambatta and 2x132kV Line bay extension at Daura of TCN, Nigeria	Nespak Nigeria Ltd. Abuja, Nigeria	Transmission Company of Nigeria (TCN)	06.05.2013
8.	Basic and Detail engineering for 132/33kV, 2x60/66 MVA AIS outdoor substation at Kankara of TCN, Nigeria	Nespak Nigeria Ltd. Abuja, Nigeria	Transmission Company of Nigeria (TCN)	06.05.2013
9.	Basic and Detail Engineering services for 132/33kV AIS Substation at Song and 2x132kV line bay extension at existing 330/132kV Yola substation of TCN	Qingdao Wuxiao Group Company and Ahmin Technology & Power Systems	Transmission Company of Nigeria (TCN)	12.04.2012

SL. NO.	NAME OF PROJECT	NAME OF CLIENT	NAME OF END CLIENT	P.O DATE
		Ltd J.V, Abuja, Nigeria		
10.	Detail engineering for replacement of 132/33kV 30MVA transformer by 90/95MVA Transformer and extension of existing 33kV switchyard by adding 2 x 33kV line bays at Gbarantoru Substation of TCN	Alsdur Limited, Port Harcourt, Nigeria	Transmission Company of Nigeria (TCN)	04.03.2015
11.	Detail Engineering services for 2x60MVA, 132/33kV AIS Substation at Gulak of TCN in Nigeria	Concept Engineering Projects Pvt. Ltd., Pune, India	Transmission Company of Nigeria (TCN)	21.02.2013
12.	Review and preparation of Lightning protection risk assessment study, LPS calculations and stamping of Earthing drawings, calculations and Lighting protection system drawings for support facility buildings at New Port Project (NPP0032)near Doha in Qatar	Shapoorji Pallonji WLL, Qatar	State of Qatar, New Port Project	10.06.2015

F. PROJECTS COMPLETED (Within India)

SL. NO.	NAME OF PROJECT	NAME OF CLIENT	NAME OF END CLIENT	P.O DATE OR DURATION
1.	Detail engineering (Electrical) for 2x400kV Line bay extension at Satpura TPS-2X250 MW (U#10&11) of MPPGCL	Mcnally Bharat Engineering Co. Ltd.	MPPGCL, M.P	20.11.2013
2.	Basic and detail engineering for 5 nos. 132/33kV Outdoor Substations at Jorhat, Bordubi, Bilasipara, Matia, Hailakandi and 1 no. 132/33kV GIS substation at Kamakhya in Assam	Alstom T&D India Ltd., Kolkata	AEGCL, Assam	19.02.2013
3.	Basic and detail engineering for 2 x 50 MVA, 132/33kV Outdoor Substation at Serakol for WBSETCL , West Bengal	Alstom T&D India Ltd., Kolkata	WBSETCL, West Bengal	19.02.2013
4.	Baisc and detail engineering for 400/220/132/33kV new substations at Howrah Foundry park and bay extensions at Laxmikantapur, Arambag, Uluberia of WBSETCL, West Bengal	Siemens Ltd., Kolkata	WBSETCL, West Bengal	30.05.2011
5.	Detail engineering for EBOP (Electrical Balance of Plant) package of 4x270MW thermal power plant of Abhijit Infra Pvt. Ltd. at Chitarpur, Jharkhand	Sterling & Wilson Ltd., Kolkata	Abhijit Infra Pvt. Ltd.	28.08.2012
6.	Detail engineering for line bay extension at 400kV Outdoor Substations at Patna, Ranchi and Malda, 220kV substation at Mariani and 132kV substation at Imphal of PGCIL	Sterling & Wilson Ltd., Kolkata	Power Grid Corporation of India Ltd.	21.08.2012
7.	Detail engineering for 1x400kV Bus reactor bay extension of PGCIL in Amritsar, Hissar, Nalagarh and Jalandhar	Sterling & Wilson Ltd., Kolkata	Power Grid Corporation of India Ltd.	16.02.2011
8.	Detail engineering for 132/33kV, 2x50MVA Grid substation at Simdega, 4 x 132kV Line bay extension at Gumla and 2 x 132kV Line bay extension at Lohardaga, JSEB	Genus Power Infrastructures Ltd.	Jharkhand State Electricity Board (JSEB)	09.10.2012
9.	Basic and detail engineering for 132/33/6.6kV GIS substation and downstream ring main system for Construction power system of NMDC for 3 MTPY Integrated steel plant at Nagarnar, Chattisgarh	KEC International, Gurgaon	NMDC, Nagarnar, Chattisgarh	25.01.2011
10.	Design & engineering services for 132/33kV AIS substation at Suryamaninagar of Tripura State Electricity Co. Ltd.	Areva T&D India Ltd., Kolkata	Tripura State Electricity Co. Ltd.	09.03.2011
11.	Detail engineering for 33/11/3.3kV Indoor substations for DSP Modernization MV package	Sterling & Wilson Ltd., Kolkata	Durgapur Steel Plant	01.06.2011
12.	Design and engineering services for 3x132kV bay extension at DPL, DPPS, Durgapur, W.B	Siemens Ltd.	Durgapur Projects Ltd.	02.03.2010

SL. NO.	NAME OF PROJECT	NAME OF CLIENT	NAME OF END CLIENT	P.O DATE OR DURATION
			(DPL), West Bengal	
13.	Consultancy services for 33kV ring main system comprising of 33kV overhead line and including 11nos. 33/0.433kV substations for National Institute of Technology (NIT), Rourkela, Orissa	NIT, Rourkela	NIT, Rourkela	08.06.2009
14.	Design & engineering Services for 6.6/0.433kV electrical power distribution system at Uranium Ore Mining & Processing Plant at Tumallapalle, Kadapa, A.P	Areva T&D India Ltd., Kolkata	Uranium Corporation of India Ltd.	26.03.2009
15.	Design & engineering Services for ten (10) nos. 33 / 6.6 KV Load Block Distribution Stations (LBDS) and three (3) nos. 6.6 / 0.415 KV LCSS at SAIL, IISCO, Burnpur	Areva & EMC consortium	SAIL, IISCO, Bunpur	17.03.2009
16.	Design & engineering services for 132/33kV AIS substation at Nazirpur and 2x132kV line bay extension at Amtala of WBSETCL	Areva T&D India Ltd.	WBSETCL, West Bengal	26.11.2009
17.	Design and engineering services for 132/33kV GIS MRSS of Tata Steel Ltd. at Noamundi, Jharkhand for Joda & Noamundi Mines expansion project	Siemens Ltd.	Tata Steel, Noamundi	16.06.2010
18.	Design & engineering Services for 2x400kV bay extension at 400/220kV Switchyard of PGCIL at Namkum, Ranchi	Areva T&D India Ltd.	Power Grid Corporation of India Ltd.	04.07.2008
19.	Basic and Detail Engineering services for 400/33kV Main receiving substation (MRSS) of Abhijit Infra Pvt. Ltd. for 4x270MW thermal power plant at Chandwa, Jharkhand	Areva T&D India Ltd.	Abhijit Infra Pvt. Ltd.	04.07.2008
20.	Design & engineering services for 400kV Bay extension at OPTCL, Meramundali grid substation at Angul, Orissa	Areva T&D India Ltd.	OPTCL, Orissa	11.07.2008
21.	Design and engineering services for 132/33/11 kV substation of OPTCL, Sambalpur, Orissa for Aryan Ispat and Viraj Steel	Areva T&D India Ltd.	Aryan Ispat and Viraj Steel	20.03.2008
22.	Detail Engineering services for 220/132/33kV Outdoor substation (MRSS) of JSEB at Bodhgaya	Areva T&D India Ltd.	Jharkhand State Electricity Board (JSEB)	25.03.2008
23.	Complete design ,engineering and consultancy services for 132/33 kV ,2x50 MVA AB zone substation (7x132 kV bays,12x33 kV bays, 11 kV-7 panel Swbd.) of Durgapur project Ltd. (DPL) at Durgapur	Areva T&D India Ltd.	Durgapur Projects Ltd. (DPL), West Bengal	28.12.2007
24.	Design & engineering services for 132 / 33 KV, 2 X 62.5 MVA Main receiving station (MRS) for 1 MPTA bar mill and 0.6 MPTA wire rod mill of Jindal Steel and Power Limited	Siemens Ltd.	Jindal Steel and Power Limited (JSPL)	29.07.2008

SL. NO.	NAME OF PROJECT	NAME OF CLIENT	NAME OF END CLIENT	P.O DATE OR DURATION
	(JSPL) at Patratu, Jharkhand			
25.	Design and engineering services for Expansion of 132/33 kV MSDS-III of SAIL,RSP	Siemens Ltd.	Steel Authority of India Ltd. (SAIL), Rourkela Steel Plant	25.06.2008
26.	Design and engineering services for five (5) nos. 132/33 kV substations (7x132 kV bays, 2x50MVA trafo, 9x33 kV bays) at Lohardaga, Latehar, Sahebganj, Pakur & Kanke of JSEB	Areva T&D India Ltd.	Jharkhand State Electricity Board (JSEB)	13.03.2007
27.	Design and engineering services for 132/11 kV Main Receiving substation (MRSS) of Phillips Carbon Black Ltd. (PCBL) and extension of 1x132 kV line bay at DPPS swyd., Durgapur	Siemens Ltd.	Durgapur Projects Ltd. (DPL), West Bengal	2007-08
28.	Preparation of cable Schedule & interconnection diagrams, Control cable block diagram and lighting design/drawings for 220/132/33 kV substation at Subhasgram of WBSETCL	Areva T&D India Ltd.	WBSETCL, West Bengal	2008
29.	Design, engineering and consultancy services for three (3) nos. new 132/33 kV, 2x50 MVA new substation and expansion of three (3) nos. 132 kV existing substations of WBSEB	Areva T&D India Ltd.	WBSETCL, West Bengal	01.02.2006
30.	Basic and detail engineering services for 2 nos. 33/11 kV, 2x7.5MVA new substation of Dishergarh Power Supply Co.	Siemens Ltd. , Kolkata	Dishergarh Power Supply Company (DPSC)	04.06.2006
31.	Basic and detail engineering services for 132/11 kV, 2x80MVA new substation of new Oxygen Plant of Bokaro Steel Plant and expansion of 132 kV swyd. at existing TPP-CPP swyd at Bokaro	Siemens Ltd.	SAIL, Bokaro	2006-07
32.	Basic and detail engineering, procurement action, vendor drawing review and site assistance for 132/33 kV, 1x37.5MVA A-zone substation of Durgapur Projects Ltd at Durgapur	Areva T&D India Ltd.	Durgapur Projects Ltd. (DPL), West Bengal	08.12.2005
33.	Complete design, engineering and consultancy services for 33 kV indoor substations, downstream power distribution, PLC controls and instrumentation for 3000 TPH Iron Ore Preparation Plant of Jindal Steel and Power Ltd, Barbil, Orissa.	Netguru Systems Ltd., Kolkata	Jindal Steel & Power Ltd.	04.11.2005
34.	Basic and detail engineering, procurement assistance, vendor drawing review and inspection of equipment for 33/6.6 kV substation of Tata Steel Tubes Division at Jamshedpur	Areva T&D India Ltd.	Tata Steel	26.08.2005
35.	Basic and detail engineering, procurement	Maknan	Jharkhand Ispat	2004-05

SL. NO.	NAME OF PROJECT	NAME OF CLIENT	NAME OF END CLIENT	P.O DATE OR DURATION
	action, vendor drawing review and inspection of 33 kV substation and downstream LV power distribution system for a 2 X 15 MT steel making and continuous casting project of Jharkhand Ispat Pvt. Ltd. at Ramgarh, Jharkhand	Consultants, Kolkata	Pvt. Ltd. at Ramgarh, Jharkhand	

G. PROJECTS COMPLETED (Outside India)

SL. NO.	NAME OF PROJECT	NAME OF CLIENT	NAME OF END CLIENT	P.O DATE OR DURATION
1.	Basic and detail engineering for expansion of 66/33kV, 1x2.5 MVA AIS outdoor substation at Chinsali of REA/ZESCO, Zambia	Supreme & Co. Ltd.	REA/ZESCO, Zambia	18.01.2014
2.	Preparation of Power and control cable schedule and interconnection diagram for 132/33kV AIS/GIS substation at Fort Portal and Opuyo of Uganda Electricity Transmission Co. Ltd.	Techno Electric Engineering Co. Ltd.	Uganda Electricity Transmission Co. Ltd.	31.03.2014
3.	Basic and detail Engineering for 132/33kV WUDIL AIS Substation in Nigeria	Supreme & Co.Pvt. Ltd., Kolkata	Transmission Company of Nigeria (TCN)	02.12.2010
4.	Preparation of Sag & Tension calculation of 11kV Overhead lines of ADDC for distribution network expansion for Farms and Ezabs belonging to VIP Customers in Eastern Region of Abu Dhabi	ASAS Engineering & Project Management Consultancy Est., UAE	Abu Dhabi Distribution Co. (ADDC)	08.07.2013
5.	Detail Engineering for 4 nos. 132/33kV AIS Substations at Oghara, Ozoro, Ughelli, Ukwa and 2x132kV Line bay extension at Ughelli power plant in Nigeria	Supreme & Co.Pvt. Ltd., Kolkata	Niger Delta Development Corporation (NDDC), Nigeria	16.04.2012
6.	Prebid Engineering support for preparation of SLD, layout drawings, total BOQ and assistance for pricing for 220/66/20kV outdoor substation at Baalbeck and 220/20kV outdoor substation at Saida in Lebanon	Farhat Group, Beirut	Electricite du Liban (EDL),	Jan 2013
7.	Basic and detail engineering for 33kV transmission lines and 33/0.42kV compact substations for Mala Infill crude oil Well heads of White Nile Petroleum Operating Co. (WNPOC), Sudan	Supreme & Co.Pvt. Ltd., Kolkata	White Nile Petroleum Operating Co. (WNPOC), Sudan	26.05.2011
8.	Design and engineering services for lighting, earthing and lightning protection of Riyadh Power Plant No. 9 Extension, Plant-F consisting of 12 nos. frame 7EA (66MW each) simple cycle gas turbine generator units in Riyadh, Saudi Arabia	Lahmeyer International, Gurgaon	SEC - COA, KSA	09.05.2007
9.	Preparation of Scope of Work and technical specifications along with base design and detail design drawings and calculations for the following substations : a) Expansion of Rafha New Power Plant 33kV Switchgear and Construction of New 33/13.8kV Rafha Substation.	Top Development Consult, KSA	SEC-EOA, KSA	10.12.2006

SL. NO.	NAME OF PROJECT	NAME OF CLIENT	NAME OF END CLIENT	P.O DATE OR DURATION
	b) Reinforcement of 33/13.8KV Adarah Substation. c) Reinforcement of 33/13.8KV Qurayat Power Plant Substation. d) Reinforcement of 33/13.8KV Qurayat West Substation			
10.	Preparation of Electrical single line/three line diagrams, DC schematics, wiring diagrams, SCADA and annunciation diagrams for 138 kV circuit breakers, medium voltage switchgear and station control panels (control, protection, mimic panels, SCADA IFC panels) of General Switchgear and Controls, Toronto, Canada for 6 nos. frame-5 GT power station and 138 kV ring bus substation at Gialo, Libya	General Switchgear and Controls, Toronto, Canada	WAHA Oil Company, Libya	17.11.2006
11.	Basic engineering and preparation of EPC offer for 33/11 kV substation and downstream 11/0.415 kV distribution substations for Qatar Petroleum Support Facilities Area (QPSFA) at Dukhan, Qatar.	Balmer Lawrie Ltd., Kolkata	Qatar Petroleum	2004-05
12.	Basic engineering and preparation of EPC offer for plant control, instrumentation and automation system for Ras Laffan Water works site, Qatar	Balmer Lawrie Ltd., Kolkata	Qatar Petroleum	2004-05
13.	Basic engineering and preparation of EPC offer for SCADA control, telemetry, instrumentation and plant automation for Ash Sharqia Sands water works, Oman	Balmer Lawrie Ltd., Kolkata	Ministry of Water, Oman	2004-05

H. LIST OF CLIENTS

Indian Clients (Past & Present)

1. Areva T & D India Ltd., Noida and Kolkata
2. Arcvac Forgecast Ltd., Dankuni, W.B
3. Blue Star Ltd.
4. B.O.C (Linde) India Ltd.
5. CES Ltd., Kolkata
6. CESC Ltd., Kolkata
7. Concept Engineering & Projects Ltd., Pune
8. EMC Ltd., Kolkata
9. Flowmore Ltd., Ranchi
10. Indo Power Projects Ltd.
11. Jindal Steel & Power Ltd., Barbil
12. KEC International, Gurgaon
13. L&T Automation, Mumbai.
14. Mcnally Bharat Enginering Co. Ltd., Kolkata
15. Netguru Systems Ltd., Kolkata
16. Siemens Ltd., Kolkata (I & S, PTD)
17. Supreme & Co. Pvt. Ltd.
18. Sterling & Wilson Ltd.
19. S.K Samanta & Co. Pvt. Ltd.
20. Techno Electric & Engineering Co. Ltd., Kolkata
21. Toshiba Transmission and Distribution Systems (India) Pvt. Ltd.
22. MBE Coal & Mineral Technology India Pvt. Ltd, Kolkata

Overseas Clients

- Top Development Consult, Saudi Arabia
- Qingdao Wuxiao Group Company and Ahmin Technology & Power Systems Ltd J.V, Abuja, Nigeria.
- Farhat Group, Beirut, Lebanon
- Nespak Nigeria Limited, Abuja, Nigeria
- Alsdur Limited, Port Harcourt, Nigeria
- Hoquado Ltd., Nigeria
- Al Sad Trading & Importing Estate, Abu Dhabi
- Transgulf International Electro-Mechanical WLL, Doha, Qatar
- Atlas International Engineering Consultants, Oman.
- Assist Consultants Inc. Afghanistan.

I. OFFICE FACILITIES AND SUPPORT STAFF

We are based in New Town, Kolkata, India. Our resources are suitable for execution of design and engineering jobs of large volume. We have necessary gadgets like computers (15 nos.), server, plotter (A0 size), fax machine, ISD telephone connection, broadband internet connection, printers and engineering softwares for day to day engineering work. Our operations are fully computerized.

J. LICENCES & REGISTRATIONS

We have valid trade license, service tax registration, professional tax registration, TAN registration and all our employees are covered under EPFO.

K. CERTIFICATES & ENLISTMENTS

We are an ISO 9001 – 2008 certified company. Our operations are executed as per ISO approved quality procedure. All design and drawings are prepared with proper checking and verifications at least three experience levels, thus ensuring proper quality as per Customer specification and satisfaction.

We are also enlisted as an MSSE (Govt. of West Bengal) registered company having EM part-II number of 19-017-22-13565.

Satcon has been accredited by NSIC-D&B-SMERA performance and credit ranking of SME 2B (high performance and moderate financial strength). SMERA is SME Rating Agency of India Ltd. The D&B (Dun & Bradstreet) D-U-N-S no. is 65-066-37397.

L. LICENSED SOFTWARES

We own the following licensed softwares :

1. One (1) license of ETAP 7.0 for system study calculations like load flow study, fault level studies, protection coordination, equipment sizing and motor starting study.
2. Three (3) licenses of Autocad 2013/2012 for preparation of electrical, civil and structural layout and detail engineering drawings.
3. Two (2) licenses of Autocad Electrical 2009 for automated preparation of GA, wiring, schematic, terminal plant drawings of control & relay panels and MV/LV switchgear panels.
4. One (1) license of Staad Pro for civil and structural analysis and design calculations.

M. ORGANIZATION CHART

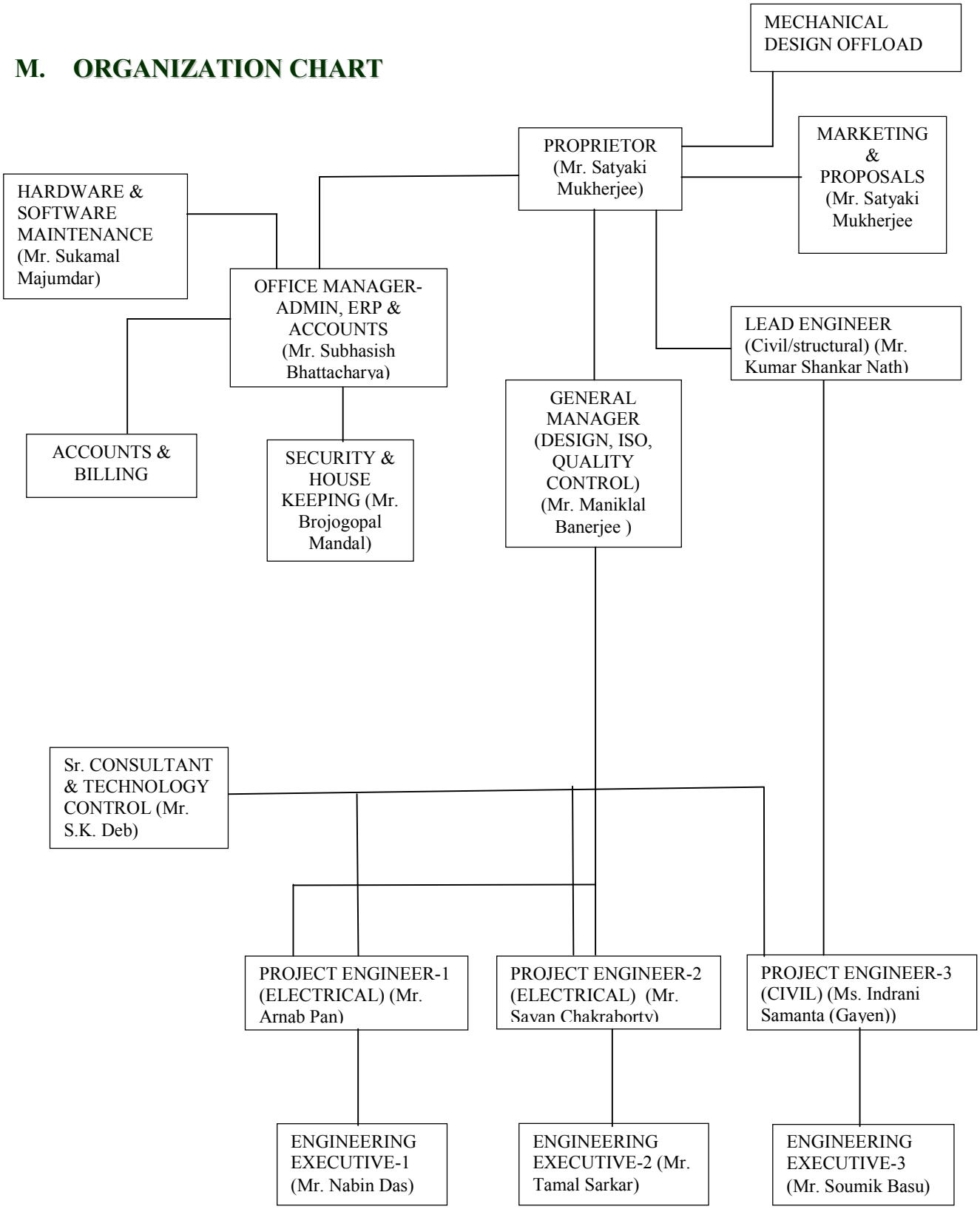


PHOTO ALBUMS

(PHOTO OF SOME SUBSTATIONS IN WHICH SATCON WAS CONTRACTED TO PROVIDE DESIGN & ENGINEERING SERVICES)

2x50MVA, 132/33kV AIR INSULATED SUBSTATION AT NEW TOWN OF WEST BENGAL STATE ELECTRICITY TRANSSMISION CO. LTD (WBSETCL)

(Consultancy Service was provided to Areva T&D India Ltd., Kolkata)

132/11KV, 2x80MVA AIR INSULATED SUBSTATION OF STEEL AUTHORITY OF INDIA AT BOKARO OXYGEN PLANT

(Consultancy Service was provided to Siemens Ltd., Kolkata)

132/33KV, 2x50MVA AIR INSULATED SUBSTATION OF WEST BENGAL STATE ELECTRICITY TRANSMISSION CO. LTD. AT CONTAI, INDIA (Photo taken during construction phase)

(Consultancy Service was provided to Areva T&D India Ltd., Kolkata)

132/33KV, 2x50MVA AIR INSULATED SUBSTATION OF JHARKHAND STATE ELECTRICITY BOARD (JSEB) at LOHARDAGA

(Consultancy Service was provided to Areva T&D India Ltd.)

1X315MVA TRANSFORMER BAY EXTENSION AT 400/220KV AIR INSULATED SUBSTATION OF WEST BENGAL STATE ELECTRICITY TRANSSMISION CO. LTD (WBSETCL) at ARAMBAG

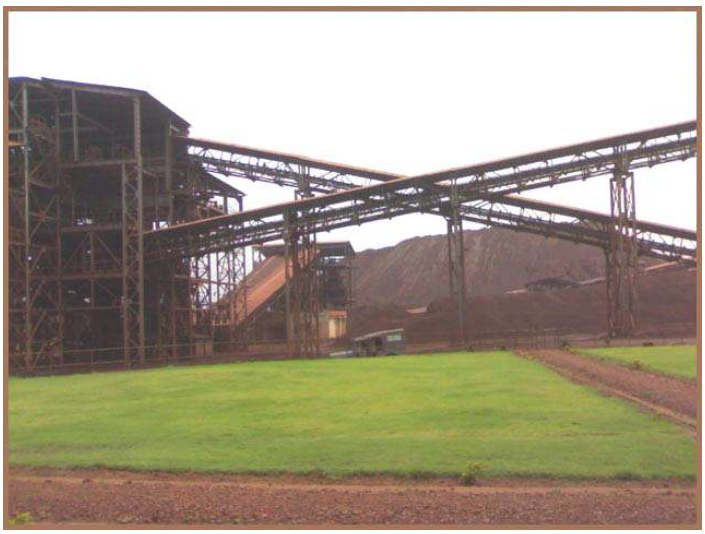
(Consultancy Service was provided to Siemens Ltd., India)

33/11KV INDOOR SUBSTATION OF MEDIUM STRUCTURE MILL AT SAIL, DURGAPUR STEEL PLANT, W.B, INDIA

(Consultancy Service was provided to Sterling & Wilson Ltd., Kolkata)

ELECTRICAL PLANT ENGINEERING FOR COAL TAILINGS DEWATERING PLANT AT TATA STEEL LTD., WEST BOKARO

(Consultancy Service was provided to Naresh Kumar & Co. Pvt. Ltd., Kolkata)



ELECTRICAL PLANT ENGINEERING FOR IRON ORE PROCESSING PLANT AT JINDAL STEEL & POWER LTD., BARBIL, ORISSA

(Consultancy Service was provided to Netguru Systems Ltd., Kolkata)

ELECTRICAL BALANCE OF PLANT ENGINEERING FOR 2X270 MW THERMAL POWER PLANT OF ABHIJIT INFRA PVT. LTD. AT LATEHAR, JHARKHAND

(Consultancy Service was provided to Sterling & Wilson Ltd., Kolkata)

33/6.6KV INDOOR SUBSTATION OF LOAD BLOCK DIST. SUBSTATIONS (LBDS) AT SAIL, IISCO, BURNPUR W.B, INDIA

(Consultancy Service was provided to Areva T&D India Ltd., Kolkata)

220/132/33KV, 2x150MVA & 2x50MVA AIR INSULATED SUBSTATION OF JHARKHAND STATE ELECTRICITY BOARD (JSEB) at CHATRA

(Under Construction)

(Consultancy Service was provided to Flowmore Ltd., Ranchi)

132/33KV, 2x50MVA AIR INSULATED SUBSTATION OF JHARKHAND STATE ELECTRICITY BOARD (JSEB) at TAMAR

(Under Construction)

(Consultancy Service was provided to Flowmore Ltd., Ranchi)