

SUBSTATION ENGINEERING & E-BOP ENGINEERING PROFILE



AVANT-GARDE ENGINEERS AND CONSULTANTS (P) LTD

(AN ISO 9001:2015 AND ISO 17020:2012 ACCREDITED ORGANISATION)



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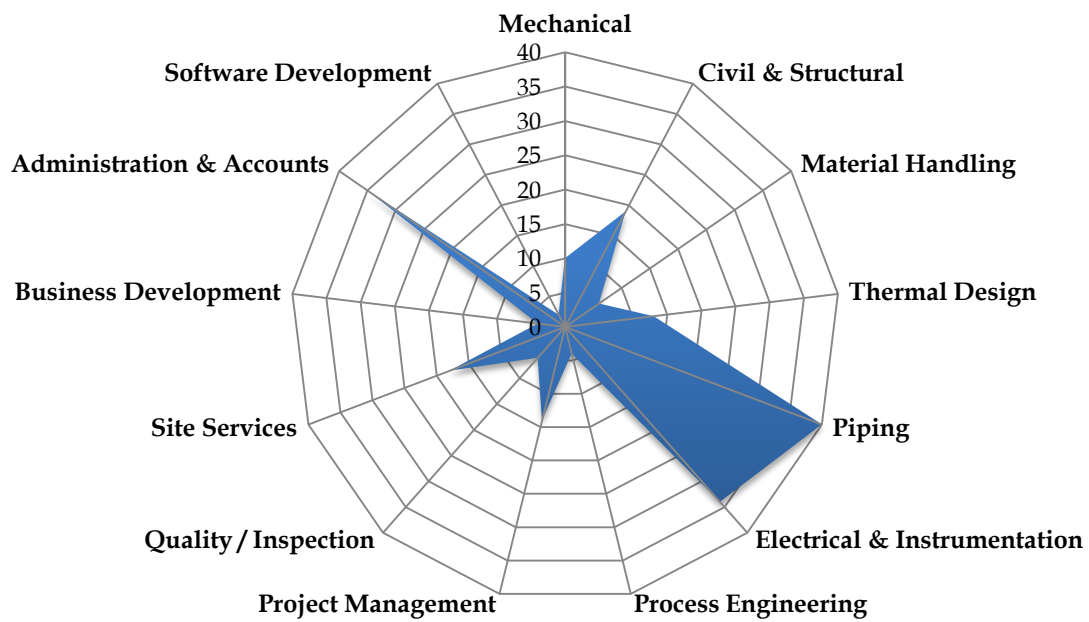
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INCEPTION

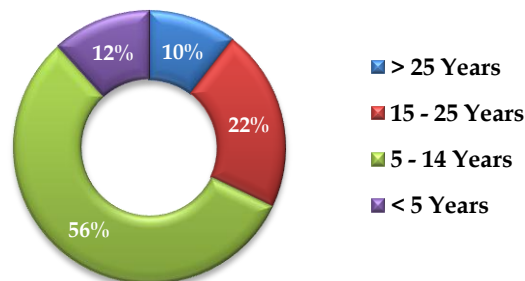
- ❖ YEAR OF ESTABLISHMENT - 1990

STAFFING

- ❖ MULTI DISCIPLINARY TEAM COMPRISE OF MORE THAN 200 WORKFORCE



YEARS OF EXPERIENCE



CONTACT PERSON

- ❖ P.S. SANKARANARAYANAN, DIRECTOR

AREAS OF OPERATION

- Captive power plant
- Cogeneration plant
- Steam generator design and engineering
- Waste heat recovery systems
- Mini Hydro electric power plants
- Combined cycle power plants
- Solar Thermal & Solar PV power plants
- Sugar plant consultancy
- Distillery Plants
- Water and Waste Water treatment plants
- Industrial Effluent Treatment plants
- Process piping
- Equipment design
- Detailed engineering of electrical, mechanical, instrumentation, civil & structures
- Procurement & site supervision
- Third party inspection services
- Residual Life Assessment
- Energy Audit
- Engineering software development

SERVICES OFFERED FOR POWER PLANTS

BASIC ENGINEERING SERVICES

- Preparation of Feasibility Reports
- Preparation of Detailed Project Reports
- Power Purchase Agreement
- Thermal Cycle Optimisation
- Plant Engineering

DETAILED ENGINEERING SERVICES

- Plant Layout
- Equipment Layout
- Piping Engineering
- Electrical Engineering
- Switchyard Design
- Instrumentation - DCS, PLC, Micro-processor
- Plant Building Design
- Civil works, civil foundation design for plant, equipment, TG, chimney etc
- Structural design and engineering
- Design and detailed engineering for GIS from 400kV to 66kV levels

PROCUREMENT SERVICES

- Vendor rating
- Preparation of Specification for bought out items
- Evaluation of offers received.
- Preparation of Draft Purchase Order.
- Vendor Drawing Review
- Expediting Services

OTHER SERVICES

- Project Engineering and Co-Ordination services
- Inspection services
- Supervision of Erection and Commissioning
- Performance Testing services

SUBSTATION ENGINEERING EXPERIENCE

S.No	Client	Project	Project Description	kV/No. of Bays
1	ABB	Enercon India Limited	Detailed Engg for 110/33 kV Switchyard	33/3
2	ABB	GPT Steel Industries	Detailed Engg for 66kV Switchyard	66/1
3	ABB	KVK Bio Energy Ltd	Detailed Engg for 132kV Switchyard	132/1
4	ABB	Enercon India Limited, Chitradurga	Detailed Engg for 66/33kV Switchyard	66/2 33/6
5	ABB	Enercon India Limited, Coimbatore	Detailed Engg for 110/33kV Switchyard	110/3 33/6
6	ABB	Chayadevi Mini Hydel Scheme	Detailed Engg for 110kV Switchyard	110/1
7	ABB	RAK Ceramics	Detailed Engg for Earthing Switchyard	-
8	ABB	Himatsingka Linens	Detailed Engg for 66/11kV Switchyard	66/1
9	ABB	Sakthi Sugar - Sivaganga	Detailed Engg for 110kV Switchyard	110/1
10	ABB	Sakthi Sugar - Modakurichi	Detailed Engg for 110kV Switchyard	110/1
11	ABB	Bharat Sugar - Hullati	Detailed Engg for 110kV Switchyard	110/1
12	ABB	Sakthi Sugar - Appakudal	Detailed Engg for 110kV Switchyard	110/1

S.No	Client	Project	Project Description	kV/No. of Bays
13	BHEL	Power and Electricity Dept – Nagaland	Detailed Engg for 66kV Switchyard	66/2
14	BECESCo / ACESCo	Design review of civil and electrical design and engineering of GIS substations between 66-400kV for GECOL, LIBYA	400kV, 220kV and 66kV Gas insulated substations supplied installed by Areva, ABB and Siemens for GECOL at different locations and grids (Like RAS LANUF 400kV GIS, BIR ALSTA MILAD 220kV GIS etc.).	7 Numbers of project.
15	KEC	Shree Doodhganga Krishna Sahakari Sakkare Karkhane Niyamat,	Detailed Engg for 132kV Switchyard	132/1
16	KEC	Malwa Power Ltd	Detailed Engg for 66kV Switchyard	66/1
17	Kumar Raja	DRDO, Naval Main & Transformer Bus	Detailed Engg for 132kV Switchyard	132/4
18	Kumar Raja	PGCIL, Rajkir and Mahadepur	Detailed Engg for 132kV Switchyard	132/8
19	L&T	161/33/12.6KV Substation at Surinam	Detailed Engg for 161/33/12.6kV Switchyard	161/3
20	L&T	Bahadurgarh Substation	Detailed Engg for 440/220 Switchyard - Civil and Structural engineering	400/2
21	ALSTOM	EPI - Enercon India Ltd	Detailed Engg for 66/33kV Switchyard	66/1 33/3
22	ALSTOM	Vandana Vidhyut	Detailed Engg for 33kV Switchyard	33/1
23	ALSTOM	Regency Ceramacis	Detailed Engg for 132kV Switchyard	132/1
24	ALSTOM	Sagar Sugars	Detailed Engg for 132kV Switchyard	132/1
25	ALSTOM	Auro Energy Ltd	Detailed Engg for 110kV Switchyard	110/1
26	ALSTOM	Sakthi Sugar - Unit-1	Detailed Engg for 110kV Switchyard	110/1
27	ALSTOM	Balrampur Chini Mills Ltd	Detailed Engg for 132kV Switchyard	132/1
28	ALSTOM	Nuziveedu Seed Limited	Detailed Engg for 66/33kV Switchyard	66/1 33/3

S.No	Client	Project	Project Description	kV/No. of Bays
29	ALSTOM	Agrigold Project Ltd	Detailed Engg for 33kV Switchyard	33/1
30	ALSTOM	Enercon India Ltd - EP2	Detailed Engg for 66/33kV Switchyard	66/2 33/6
31	ALSTOM	Supreme Renewable Energy	Detailed Engg for 110kV Switchyard	110/2
32	ALSTOM	Indur Green Power Pvt Ltd	Detailed Engg for 33kV Switchyard	33/1
33	ALSTOM	Perpetual Energy Limited	Detailed Engg for 33kV Switchyard	33/1
34	ALSTOM	Thiru Arcaram Sugar Limited	Detailed Engg for 110kV Switchyard	110/1
35	ALSTOM	PJS Investments Ltd	Detailed Engg for 66kV Switchyard	66/1
36	ALSTOM	Bannari Amman Sugar	Detailed Engg for 110kV Switchyard	110/1
37	ALSTOM	Jindal Steel and Power Ltd	Detailed Engg for 220kV Switchyard	220/1
38	ALSTOM	NDPL	Detailed Engg for 33/11kV Switchyard	33/1 11/1
39	ALSTOM	Hindalco Industries Ltd	Detailed Engg for 132kV Switchyard	132/1
40	ALSTOM	Jindal Steel and Power Ltd	Detailed Engg for 220kV Switchyard	220/2
41	ALSTOM	Power Grid Corporation Ltd	Detailed Engg for 400/220kV Switchyard	400/1 220/1
42	ALSTOM	Syrian Arabrepublic	Detailed Engg for 66kV Switchyard	66/15
43	ALSTOM	Bhushan Limited	Detailed Engg for 220kV Switchyard	220/10
44	ALSTOM	Jindal Steel and Power Ltd	Detailed Engg for 220kV Switchyard	220/3
45	ALSTOM	NDPL	Detailed Engg for 66kV Switchyard	66/5
46	ALSTOM	Brakes India Limited	Detailed Engg for 110kV Switchyard	110/1
47	ALSTOM	Haryana State Industrial Development Corporation	Detailed Engg for 132kV Switchyard	132/4
48	ALSTOM	Rajshree Sugars & Chemicals Ltd	Detailed Engg for 110kV Switchyard	110/2

S.No	Client	Project	Project Description	kV/No. of Bays
49	ALSTOM	Rathi Ispat	Detailed Engg for 132kV Switchyard	132/2
50	ALSTOM	Saint Gobain - Sriperumbudur	Detailed Engg for Earthing	-
51	ALSTOM	Mohan Breweries and Distillery Ltd	Detailed Engg for 110kV Switchyard	110/1
52	ALSTOM	Eid Parry (I) Ltd, Pudukkottai	Detailed Engg for 110kV Switchyard	110/1
53	ALSTOM	Prathyusha Power	Detailed Engg for 110kV Switchyard	110/1
54	ALSTOM	Akbarpur Chini Mills	Detailed Engg for 132kV Switchyard	132/1
55	ALSTOM	Mankapur Chini Mills	Detailed Engg for 132kV Switchyard	132/1
56	AREVA	Kamachi Sponge and Power Corporation	Detailed Engg for 33kV Switchyard	33/3
57	PROJECT	Kakatiya Cement Industries Limited	Detailed Engg for 132kV Switchyard	132/1
58	AREVA	Eid Parry (I) Ltd, Pugalur	Detailed Engg for 110kV Switchyard	110/1
59	SIEMENS	Visakapatnam Steel Plant	Detailed Engg for 220kV Switchyard	220/15
60	SIEMENS	Dhamra Port, Orissa	Detailed Engg for 132kV Switchyard	132/5
61	SIEMENS	Janki Corporation Ltd., Karnataka	Detailed Engg for 110kV Switchyard	110/1
62	IKE	Datta SSKL, Maharashtra	Detailed Engg for 132kV Switchyard	132/5
63	IKE	Warana SSKL, Maharashtra	Detailed Engg for 132kV Switchyard	132/5
64	GET	Gupta Energy Pvt. Ltd., Maharashtra	Detailed Engg for 220kV Switchyard	220/9
65	NAMRATA	Vasantrao Dada Patil SSKL, Maharashtra	Detailed Engg for 132kV Switchyard	132/3
66	NAMRATA	Vithalrao Shinde SSKL, Maharashtra	Detailed Engg for 33kV Switchyard	33/1
67	NAMRATA	Indreshwar Sugars Ltd. Maharashtra	Detailed Engg for 33kV Switchyard	33/1
68	NAMRATA	Bhima Patas SSKL. Maharashtra	Detailed Engg for 132kV Switchyard	132/1

S.No	Client	Project	Project Description	kV/No. of Bays
69	Hi-Tech Electricals	Jhamkandi Sugars, Karnataka	Detailed Engg for 110kV Switchyard	110/1
70	AREVA	Greenesol Power Systems	Detailed Engg for 220kV Switchyard	220/7
71	Emco Limited, (EMCO), Thane	66kv Substation for 40MW PV Plant in Gujarat	Order for Pre-Bid Engineering of 66kV Substation for 40MW PV Plant in Gujarat	66/5
72	Namrata Services (NS), Pune	Manjara SSK Ltd.,Latur	Detailed Engg for 33kV Switchyard& Distribution System	33/1
73	Shri Jyoti Renewable Energy Private Limited, Haryanan	Shri Jyoti Renewable Energy	Providing Engineering Services for 110 kV Switchyard Package	110/1
74	L & T Limited, Bahrain	220 kV Switchayrd at Tatweer	220kV Outdoor Switchyard (Central, North & South) for Civil and Structural for Tatweer Petroleum Project	220/5
75	Emco Limited, (EMCO), Thane	36MW - Chanju Project(HP)	Pre-Bid Engineering Services for 36MW - Chanju Project (HP)	
76	Namrata Services (Ns), Pune	Majalgaon SSKL, Sundernagar	Detailed Engineering of 11/132KV, 25MVA Transformer Bay With Associated 132kV Equipment & Electrical Distribution System for Cogen & Sugar Plant	132/3
77	Bmm Ispat Limited	220KV Switchyard Interconnection	Detailed Engineering Services for Interconnection of 220kV Line Between 2 X 70 MW and Existing 220 kV Substation in 1 X 70 MW Plant	220/3
78	Rana Sugars Limited, Punjab	132KV Switchyard at Belwara	Detail Engineering of 11/132kV Switchyard With Two (2) Nos of Transformer Bay and One (1) No of Line Bay	132/3
79	Emco Limited, (Emco), Thane	400/220KV GSS at Jaipur(North)	Pre-Bid 400/220kV GSS at Jaipur(North)	400/4 & 220/10

S.No	Client	Project	Project Description	kV/No. of Bays
80	Hightech Electricals, Belgaum	Shree Basaveshwar Sugars	Engineering of 110kV Plant End Switchyard	110/1
81	Hightech Electricals, Belgaum	Jamkhandi Sugars Unit II	Engineering of 110kV Plant end Switchyard	110/1
82	Shravanthi Infratech Limited	100 MW Wind Power Plant at MP	Drawing / Document Review for 220 / 33kV Substation	220/5 & 33/10
83	Chettinad Cement Ltd, Karikali	110kV Switchyard Bay Extension	Providing engineering services for 110kV substation work at Karikali Unit III	110/2
84	BMM Ispat Limited, Karnataka	220KV Switchyard Interconnection	Detailed Engineering Services for Interconnection of 220kV Line Between 2 X 70 MW and Existing 220 kV Substation in 1 X 70 MW Plant	220/3
85	Shri Shakti Alternative Energy Limited , Rajasthan	33/132kV Pooling Substation for 100MW Solar PV Plant	Engineering of 33/132kV Pooling Substation at Rajasthan Solar Processing Zone.	132/3 & 33/12
86	Namrata Services (Ns), Pune	33kV Switchyard	Detailed engineering of 11/33kV, 12MVA Transformer and Metering (A/c. Audambarraoji Patil Sakhar KarkhanaLtd)	33/2
87	Namrata Services (Ns), Pune	Nira Bhima SSKL, Indapur Dist, Pune	Detailed Engineering of 11/132kV,20MVA Transformer Bay with associated 132kV Equipment & Electrical Distribution System	132/3
88	Namrata Services (Ns), Pune	Bhima Shankar, Ambegaon Dist.	Detailed Engineering of 11/132kV, 18MVA Transformer Bay with associated 132kV Equipment & Electrical Distribution System	132/3
89	Namrata Services (Ns), Pune	MSETCL Bay at Majalgaon S/S end & Telgaon S/S	Detailed Engineering of MSETCL Bay at Majalgaon S/S end & Telgaon S/S end A/c. Majalgaon SSKL, Sundernagar	132/2

S.No	Client	Project	Project Description	kV/No. of Bays
90	Hightech Electricals , Belgaum	Shiruguppi Sugars	Engineering of 110kV Plant End Switchyard	110/1
91	Delhi Electric Co, Limited, Delhi	33kV Switchyard at Chandanpur & Milaknarayanpur	Engineering services for 33kV Switchyard	33/2
92	Delhi Electric Co, Limited, Delhi	33kV Switchyard at Adani Mines	Engineering services for 33kV Switchyard at Adani Mines	33/4
93	Delhi Electric Co, Limited, Delhi	130MW Solar Power plant - Pooling Substation	Pre-Bid Engineering Services for Welspun Solar Limited	132/3 & 33/12
94	Bharat Bijilee Limited	Delhi MSW, Delhi	Engineering services for 66kV Switchyard	66/1
95	Namrata Services (Ns), Pune	MSETCL Bay at Karmayogi Plant	Detailed Engineering of 132kV LILO MSETCL Bay at Karmayogi SSKL	132/3
96	SAE Switchgears Limited	60TPH GCU Unit at Delhi	Pre-Bid Engineering Services for 60TPH GCU Cement unit	
97	Delhi Electric Co, Limited, Delhi	132kV Substation at Parsa and Tarkeshwar	Pre Bid Engineering Services for 132kV substation at Parsa and Tarkeshwar on account of Welspun	132/4&132/3
98	Idea Engineers Limited, Pune	132kV Substation at Shri Datta, Maharashtra	Detailed Engineering of 132kV Plant end and LILO MSETCL Bay at Shri Datta SSKL	132/3
99	Alstom India Limited	66kV Substation at Bannari Amman Limited, Kollegal	Detailed Engineering of 25MVA, 66kV Plant end and KPTCL end substation	66/2
100	Namrata Services (Ns), Pune	220kV System at Vithalrao Shinde SSK	Detailed Engineering of 43MVA, 220kV Plant end and LILO MSETCL Bay	220/3
101	Namrata Services (Ns), Pune	132kV substation at Shrigonda SSK Ltd	Detailed Engineering of 24MVA, 132kV Plant end switchyard	132/1
102	Rungta Mines Limited, Chhattisgarh	132kV Switchyard at RML, Chaliyama Plant	Engineering of 132kV switchyard plant end	132/2
103	Fabtech Projects & Engineers Ltd	132kV Switchyard at Fabtech plant	Engineering services for Power Evacuation System and Transmission line for 16 MW Co-Generation Plant	132/3

S.No	Client	Project	Project Description	kV/No. of Bays
104	Alstom T&D India Limited	132 KV hybrid substation	Electrical Engineering services for 2 X 145 kV hybrid substation and 4 nos of 33 kV air insulated system at Hindalco, Hiraku Project	132 & 33
105	SAE Switchgears and Services	132kV transformer Bay with 31.5 MVA Transformer	Electrical Engineering services for 11/132kV, 31.5/40MVA Transformer Bay with associated 132kV Equipment	132/1
106	ISABELA, Philippines on A/c of thermax india	69kV transformer Bay with 20 MVA Transformer	Detailed Engineering services for 13.8/69kV, 25MVA Transformer Bay with associated 69kV Equipment	69/1
107	Namrata Services (Ns), Pune	132kV transformer Bay with 25 MVA Transformer	Detail engineering Services for 132kV switchyard and its distribution system for Reliable Sugars	132/3
108	Namrata Services (Ns), Pune	132kV transformer Bay with 20 MVA Transformer	Detail engineering Services for 132kV switchyard for Siddanath Sugars	132/3
109	Greenesol Power Limited	132kV Switchyard with 2x30MVA Transformer bays and line bays	Detail Engineering for Chiniot Power Limited, Pakistan	132/5
110	Namrata Services (Ns), Pune	220kV Switchyard with 25MVA Transformer	Detail engineering Services for 220kV switchyard for Vittal SSK	220/3
111	Namrata Services (Ns), Pune	220kV Switchyard with 25MVA Transformer	Detail engineering Services for 220kV switchyard for Swaraj SSK	220/3
112	Namrata Services (Ns), Pune	132kV Switchyard with 20MVA Transformer	Detail engineering Services for 132kV switchyard for Bhima Takali SSK	132/3
113	SAE Switchgears Limited	132kV Switchyard with 25MVA Transformer	Detail engineering Services for 132kV switchyard for Tirupathi Sugars, Bihar	132/1
114	EPS Instrumentation System	132kV Switchyard with Two nos of 31.5 MVA Transformer	Detail engineering Services for 132kV switchyard for Rungta Mines Chaliyama Plant	132/5
115	Namrata Services (Ns), Pune	220kV Switchyard with 20 MVA Transformer	Detail engineering Services for 220kV switchyard for Sant Tukaram	220/3

S.No	Client	Project	Project Description	kV/No. of Bays
116	Thermax India Limited	69kV Transformer Bay with 12.5 MVA Transformer	LAMSAN, Philippines	69/1
117	Thermax India Limited	69kV Transformer Bay with 2x5 MVA Transformer	BICOL, Philippines	69/1
118	SAE Switchgears Limited	132kV Switchyard with LILO System	Detail engineering Services for 66kV switchyard for Narayangarh Sugars Mill	66/2

E-BOP ENGINEERING EXPERIENCE

S. No	Client	Project	Project Description
1	L&T	Vemagiri Power Generation Ltd.,	Preparation of Equipment, Earthing & Lighting Layout Drawings for 388.5MW Combined Cycle Power Plant
2	IKE	Vijayanagar Sugars Pvt. Ltd, Karanataka	Engineering of E-Bop Package for 32MW Co-Generation Power Plant
3	IKE	Sree Datta SSSKL, Maharastra	Engineering of E-Bop Package for 34MW Cogeneration Power Plant
4	IKE	Sree Warana SSSKL, Maharastra	Engineering of E-Bop Package for 44MW Cogeneration Power Plant
5	GET	Krishnaveni Sugars P. Ltd, Andhra Pradesh	Engineering of E-Bop Package for 30MW Cogeneration Power Plant
6	GET	Siruguppa Sugars & Chemicals P. Ltd, Karnataka	Engineering of E-Bop Package for 30MW Cogeneration Power Plant
7	GET	Gupta Energy P. Ltd., Maharastra	Engineering of E-Bop Package for 2x60MW Cogeneration Power Plant
8	Peeraj, Dubai	Ethanol Distillery Project at Mumias Sugar Company Limited	Engineering of E-Bop Package for Ethanol Distillery Project
9	IKE	24000 TCD White Nile Sudan Project	Preparation of Layouts, Tray Routing , Equipment, Earthing & Lighting Layout Drawings
10	TKII	Thyssenkrupp Industries Limited	Electrical Balance of Plant Engineering for 3x70MW plant for Anrak Aluminum Limited
11	Alstom Grid, Singapore	Nighi Son Thermal Power Plant Construction Project, Vietnam	Preparation of Electrical Drawings for Nighi Son Thermal Power Plant Construction Project, Vietnam

S. No	Client	Project	Project Description
12	Sequent System Integrators	20MW Co-Generation Project at Shiraguppi Sugar Works Ltd	Engineering Services for Bop Electrical for 20MW Co-Generation Project at Shiraguppi Sugar Works Ltd
13	IKE Electric Pvt. Ltd., Pune	NOCL, Cuddalore	Engineering Services for WTP Plant at Nocl, Cuddalore
14	Delhi Electric Co.Limited	44 MW Cogeneration Project at Kesar Enterprises Ltd	Engineering Services for BOP Electrical for 44 MW Cogeneration Project at Kesar Enterprises Ltd
15	IKE Electric Pvt. Ltd., Pune	30MW Co-generation plant at KPR Sugar Mills, Karnataka	Engineering for Balance of Plant (Electrical) Package for KPR Sugars Limited 30MW Co-generation plant.
16	Delhi Electric Co.Limited	2x20MW Cogeneration plant - Wonji Soha, Ethiopia	BOP Electrical Engineering services for Uttam Sucrotech International (P) Limited - SAE Switchgears and Services
17	Delhi Electric Co.Limited	Wave Steel Rolling Plant, Dhanuera	Engineering for services for Wave Steel Rolling Plant, Dhanuera - Balance of plant Electrical Engineering for Steel Rolling Plant
18	Felguera Gruas India Pvt. Ltd	Tuticorin Conveyor Port Expansion Project	Detailed Engineering Services for Electrical and Instrumentation services for Turicorin Conveyor port expansion project
19	IKE Electric Pvt. Ltd., Pune	30MW Co-generation plant at Gammon India Limited	Engineering for Balance of Plant (Electrical) Package for Gammon India Limited 30MW Co-generation plant.
20	SAE Switchgears Limited, Delhi	Refinery Project at kandala Port for Uniworld Sugars	Engineering for Balance of Plant (Electrical) for sugar refinery unit at Kandala for Uniworld sugars
21	SAE Switchgears Limited, Delhi	23MW Co-generation plant at Dalmia SSKL	Engineering for Balance of Plant (Electrical) Package for Shri Dalmia Datta 23MW Co-generation plant.
22	Thyssenkrupp India Limited, Pune	43MW CPP plant at Karnataka	Complete Electrical Engineering Services for 1x43MW CPP for Orient Cements, Karnataka
23	Felguera Gruas India Pvt. Ltd	Krishnapattinam Port Project	Detail Engineering Services for Electrical and Instrumentation for Krishapattinam Port expansion for conveying system
24	SAE Switchgears Limited, Delhi	40MW Co-generation plant at Dalmia SSKL	Engineering for Balance of Plant (Electrical) Package for Gobind Sugars Limited
25	JDW Unit-II, Pakistan	Mill Electrification of 8500TCD	Electrical Engineering for the entire mill system

S. No	Client	Project	Project Description
26	Ramky Enviro Engineers Ltd.,	3x150MW TPP at Haldia	Detailed Engineering for Electrical and Instrumentation for 3x150MW TPP at haldia.
27	Aqua Designs India Private Limited	RO Plant - IOCL Barauni, Refinery	Detail Engineering of Electrical and Instrumentation system
28	IKE, Pune	Ambalika Sugars	Engineering for Balance of Plant (Electrical) Package for Ambalika Sugars 3MW Distillery Plant
29	SAE Switchgears Limited	Mohan Gold Water, Unnao	Detail Engineering of Electrical and Instrumentation system for entire brewery plant
30	IKE, Pune	Daund Sugars	Engineering for Balance of Plant (Electrical) Package for Daund Sugars Distillery Plant
31	Namrata Services, Pune	Rajarambabu Sugars	Detail Engineering of Electrical system for cooling tower and conveyor system

SYSTEM STUDY & FAILURE ANALYSIS

Project	Particulars of the works
Rauzagaon Chini Mills	Fault Level Analysis and Plant Stabilization Project
Industries Chimiques Du Senegal, Dekar Senegal	Engineering Study for Short Circuit & Load Shedding
Kakatiya Sugars & Cements Ltd., Andhra Pradesh	Analysis on Failure of Generator
Aarthi Steels Limited, Orissa	Analysis on Failure of Generator
Bannari Amman Sugars, Nanjangud	Analysis on Failure of Transformer
Gallant Ispat Limited, Gujarat	Analysis on Failure of Generator
Triveni Sugars & Distilleries Limited, Khatauli	Analysis on Failure of Transformer
Maithan Ispat P. Ltd, Orissa	Analysis of Relay Setting to Avoid Nuisance Tripping
Rauzagaon Chini Mills, U.P	Analysis of Relay Setting to Avoid Nuisance Tripping
Industries Chimneyques Du Senegal Dekar, Senegal	Load Shedding, Short Circuit Analysis & Relay Setting Coordination
Ultratech Cements Ltd, Ariyalur	Synchronization Scheme, Load Shedding Logics, Preparation of Fault Level Calculation & Relay Setting Co-Ordination Chart
Shri Ram Chandra Mission, Porur	Engineering for feasibility study to convert

Project	Particulars of the works
	existing LT system to HT System with budgetary cost
WEG Industries - Hosur	Electrical System Study for Continuous Operation of plant with Test Lab during outage of 22kV Supply.
Electrosteel Castings Ltd - West Bengal	Electrical System review for 2 X 60 MW CPP with 220kV GIS system
EGE, Chez	IPB modification study for Generator at Northern Power generation Company, Pakistan
Dalmia Sugars Limited, Jawaharpur	Electrical system study of mill and sugar plant

GROUP COMPANY

- Avant-Garde Systems and Controls (P) Limited, Chennai.
- Avant-Garde Engineers & Consultants FZC, Sharjah, U.A.E

AFFILIATIONS & MEMBERSHIP

- CEAI - Consulting Engineers Association of India (CEAI is member of **FIDIC International Federation of Consulting Engineers**)
- Registered with Indian Renewable Energy Development Agency (IREDA)
- Enlisted with Power Finance Corporation of India and Asian Development Bank
- IIT, Chennai - Industrial Associateship Scheme (IAS) Membership and Library Membership
- Anna University - Industrial Associateship Scheme (IAS) Membership and Library Membership
- BIS - Bureau of Indian Standards Library Membership
- Institute of Engineers Fellow Membership - Directors (Chartered Engineers)
- Indian Chamber of Commerce and Industry (ICCI)
- Madras Chamber of Commerce and Industry (MCCI)
- Indian Wind Power Association
- Indian Welding Society
- Institute of Fire Engineers
- Bureau of Energy Efficiency (BEE)
- Maharashtra Energy Development Agency
- South Indian Sugarcane and Sugar Technologists Association
- Sugar Technologist Association of India (STAI)
- Engineering Export Promotion Council (EEPC)

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