

CO-GENERATION PLANT PROFILE (SUGAR PLANTS)



AVANT-GARDE ENGINEERS AND CONSULTANTS (P) LTD

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



Old No: 68A, New No: 79, Porur Kundrathur High Road, Porur
Chennai - 600 116, India

Tel: + 91 -44 -4598 1200 / 2482 8717 - 22

Fax: + 91 -44 -24828531

avantgarde@vsnl.com

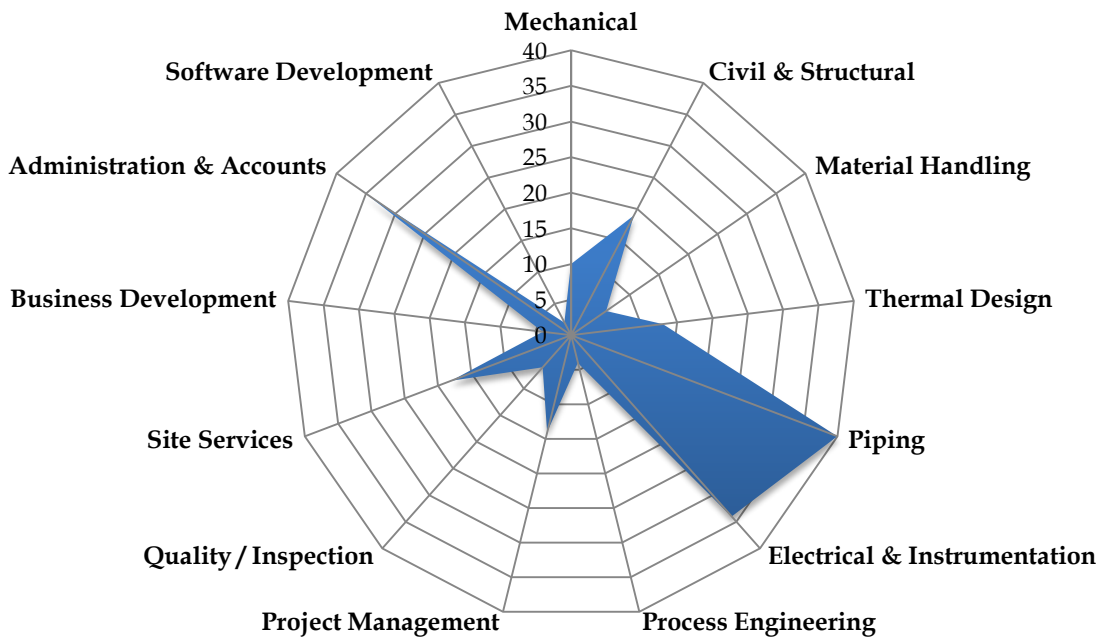
savantgarde-india.com | avant-garde.in

INCEPTION

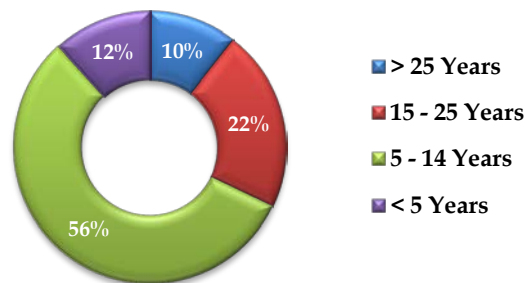
- ❖ YEAR OF ESTABLISHMENT - 1990

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 CO-GENERATION 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

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

CO-GENERATION PLANT EXPERIENCE

A. LIST OF COMMISSIONED PROJECTS

S.No	Project	Capacity	Regionwise Capacity
1.	Thiru Arooran Sugars Limited Unit - I, Tamil Nadu	18.68 MW	
2.	Thiru Arooran Sugars Limited Unit - II, Tamil Nadu	18.68 MW	
3.	Thiru Arooran Sugars Limited Unit - II, Tamil Nadu	9.5 MW	
4.	EID Parry (India) Limited, Nellikuppam, Tamil Nadu	30.00 MW	
5.	EID Parry (I) Ltd., Pudukottai, Tamil Nadu	18.00 MW	
6.	EID Parry (I) Ltd., Pugualur, Tamil Nadu	22.00 MW	
7.	EID Parry (I) Ltd., Pettavaithalai, Tamil Nadu	20.00 MW	
8.	Dharani Sugars & Chemicals Limited, Sankarapuram	22.00 MW	
9.	Dharani Sugars Limited, Tamil Nadu	15.00 MW	
10.	Bannari Amman Sugars Ltd., Unit - I, Tamil Nadu	20.00 MW	
11.	Bannari Amman Sugars Ltd., Thiruvannamalai	28.80 MW	
12.	Dhanalakshmi Srinivasan Sugars Ltd., Tamil Nadu	23.00 MW	
13.	Arunachalam Sugar Mills Limited., Tamil Nadu	19.00 MW	
14.	Auro Energy Ltd., (SASL Unit - I) Tamil Nadu	16.00 MW	
15.	Supreme Renewable Energy Ltd., (SASL Unit II) Tamil Nadu	40.00 MW	
16.	Sakthi Sugars Ltd., Unit 1, Tamil Nadu	35.00 MW	
17.	Sakthi Sugars Ltd., Modakurichi, Tamil Nadu	25.00 MW	
18.	Sakthi Sugars Ltd., Sivaganga, Tamil Nadu	35.00 MW	
19.	Rajashree Sugars and Chemicals Ltd., Mundiyaibakkam, Tamil Nadu	22.00 MW	
20.	Rajshree Sugars and Chemicals Ltd., Gingee, Tamil Nadu	20.00 MW	
			482.66 MW

S.No	Project	Capacity	Regionwise Capacity	
21.	Madras Sugars Limited., Thirukovilur	25.00 MW		
22.	Sudalagunta Sugars Limited, Andhra Pradesh	7.50 MW	203.95 MW	
23.	Varalakshmi Sugars Ltd., Andhra Pradesh	16.00 MW		
24.	NCS Gayatri Sugars Ltd., Andhra Pradesh	6.00 MW		
25.	Kakatiya Cement Sugar & Ind. Ltd., Andhra Pradesh	16.70 MW		
26.	Sagar Sugars & Allied Products Ltd., Andhra Pradesh	20.00 MW		
27.	Ganpati Sugar Industries Ltd., Andhra Pradesh	15.75 MW		
28.	Nizam Deccan Sugars Limited, Andhra Pradesh	20.00 MW		
29.	KCP Sugar and Industries Ltd., Vuyyuru, Andhra Pradesh	15.00 MW		
30.	KCP Sugar and Industries Ltd., Lakshmipuram, Andhra Pradesh	3.00 MW		
31.	Madhucon Sugars Ltd., Andhra Pradesh	26.00 MW		
32.	NCS Sugars Limited., Andhra Pradesh	20.00 MW		
33.	Krishnaveni Sugars Ltd., (A subsidiary of SCM Sugars Ltd), Andhra Pradesh	28.00 MW		
34.	Silk Road Sugar Private Ltd, Andhra Pradesh	10.00 MW		
35.	Shri Prabhulingeshwar Sugar works Ltd., Karnataka	17.50 MW		419.30 MW
36.	Ryatar Sahakari Sakkare Karkhane Ltd., Karnataka	2.00 MW		
37.	GEM Sugars Limited, Karnataka	16.50 MW		
38.	Ryatar Sahakari Sakhar Karkhane Ltd, Karnataka	5.00 MW		
39.	Shree Doodhaganga Krishna SSK Niyamit, Karnataka	20.00 MW		
40.	Bannari Amman Sugars Ltd., Unit II, Nanjangud, Karnataka	16.00 MW		
41.	Bannari Amman Sugars Ltd., Unit II, Nanjangud, Karnataka (Expansion)	20.00 MW		
42.	Bannari Amman Sugars Ltd, Kollegal, Karnataka	20.00 MW		
43.	The Mysore Sugar Company Ltd., Karnataka	30.00 MW		
44.	Shri Chamundeswari Sugars Ltd., Unit - I, Karnataka	26.00 MW		
45.	Bharat Sugar Mills Limited, Haliyal, Karnataka	26.00 MW		
46.	Vijayanagar Sugars (P) Limited., Karnataka	32.00 MW		
47.	GMR Industries - Ramdurg, Karnataka	6.00 MW		
48.	Shiraguppi Sugar Works Ltd, Karnataka	20.00 MW		
49.	SCM Sugars., Unit III (Shiruguppa), Karnataka	28.00 MW		
50.	Core Green Sugar & Fuels Pvt. Ltd, Gulbarga, Karnataka	25.00 MW		
51.	Shri Prabhulingeshwar Sugars& Chemicals Ltd, Siddapur	27.00 MW		
52.	Jamkhandi Sugars Limited., Unit - I, Karnataka	17.50 MW		
53.	Jamkhandi Sugars Limited., Unit - II, Karnataka	27.50 MW		
54.	GMR - Dhanalakshmi SSK Ltd, Ramdurg, Karnataka	7.30 MW		

S.No	Project	Capacity	Regionwise Capacity
55.	EID Parry (I) Ltd., Haliyal, Karnataka	8.00 MW	
56.	K.P.R Sugar Mills Ltd., Karnataka	30.00 MW	
57.	Agauta Sugars Limited, Uttar Pradesh	3.50 MW	
58.	Balrampur Chini Mills Ltd., Uttar Pradesh	19.55 MW	
59.	Haidergarh Chini Mills Ltd, Haidergarh, U.P	23.25 MW	
60.	Balrampur Chini Mills Ltd., Mankapur, U.P	34.00 MW	
61.	Gularia Chini Mills Ltd., BCML Unit, U.P	31.00 MW	
62.	Rauzagaon Chini Mills Ltd., BCML Unit, U.P	26.00 MW	
63.	Triveni Engineering and Industries Ltd., (Deoband), UP	22.00 MW	
64.	Triveni Engg & Industries Ltd., Khatauli, Phase-I, UP	24.00 MW	
65.	Triveni Engg & Industries Ltd., Khatauli, Phase-II, UP	22.00 MW	
66.	Dalmia Sugars Ltd., Jawaharpur Unit I, U.P	27.00 MW	
67.	Dalmia Sugars Ltd., Nigohi, Unit II , U.P	27.00 MW	
68.	Mawana Sugars Ltd., Nanglammal., U.P	20.00 MW	
69.	Mawana Sugars Ltd., Titawi., Uttar Pradesh	28.00 MW	
70.	Mawana Sugars Ltd., Mawana., Uttar Pradesh	26.00 MW	
71.	Upper Ganges Sugar Industries Ltd. U.P	25.00 MW	
72.	Ramgarh Chini Mills Ltd., Ramgarh, U.P	25.00 MW	
73.	Kesar Enterprises Ltd., Uttar Pradesh	44.00 MW	
74.	Khumbhi Chini Mills Ltd., Uttar Pradesh	13.00 MW	
75.	Gobind Sugar Mills Ltd., Uttar Pradesh	30.00 MW	470.30 MW
76.	Sri Renuka Sugars, Gujarat	30.00 MW	
77.	Sri Renuka Sugars, Gujarat	15.00 MW	45.00 MW
78.	A.B. Sugars Limited., (Phase-I), Punjab	11.00 MW	
79.	Nahar Industrial Enterprises Ltd., Unit Nahar Sugars, Amloh, Punjab	8.00 MW	
80.	A.B.Sugars Limited., (Phase-II), Punjab	22.00 MW	41.00 MW
81.	Shri Chatrapati Sahu SSK Ltd., Maharashtra	12.50 MW	
82.	Shri Pandurang SSK Ltd., Maharashtra	9.00 MW	
83.	Hemarus Technologies Ltd., Maharashtra	20.00 MW	
84.	Someshwar SSK., Maharashtra	18.00 MW	
85.	Sunil Hi-Tech Engineering Ltd.,(Gangakhed Sugars), Maharashtra	30.00 MW	
86.	Shree Datta Shetkari SSK Ltd., Maharashtra	36.00 MW	
87.	SMSMPSSK Ltd, Maharashtra	33.00 MW	
88.	Shree Tatyasaheb Kore Warana SSK Ltd, Maharashtra	44.00 MW	
89.	Lokmangal Sugars & Industries (Bhandarakavathe)	16.50 MW	
90.	Shri Ambalika Sugar Pvt Ltd, Pune, Maharashtra (Unit-I)	15.00 MW	
91.	Gammon India Ltd, Pravara Nagar, Maharashtra	30.00 MW	287.00 MW

S.No	Project	Capacity	Regionwise Capacity
92.	Lokmangal Mouli Industries Limited, Maharashtra	30.00 MW	
93.	Shri Datta Sakhar Karkhana (A Unit of Dalmia Bharat Sugar and Industries Limited), Maharashtra	23.00 MW	
94.	Mumias Sugar Co. Ltd., Kenya	34.00 MW	34.00 MW
95.	JDW Power (P) Limited (Ghotki Sugar Mills), Pakistan	26.00 MW	114.00 MW
96.	JDW Power (P) Limited (United Sugar Mills), Pakistan	26.00 MW	
97.	Chiniot Power Ltd, (Unit - I) Pakistan	31.00 MW	
98.	Chiniot Power Ltd, (Unit - II) Pakistan	31.00 MW	
99.	The Fiji Sugar Corporation Limited, Labasa, Fiji Islands	10.00 MW	15.00 MW
100.	The Fiji Sugar Corporation Limited, Rarawai, Fiji Islands	5.00 MW	
	TOTAL	2150.21 MW	2150.21 MW

B. LIST OF PROJECTS UNDER VARIOUS STAGES OF IMPLEMENTATION

S.No	Project	Capacity	Regionwise Capacity
1.	Sakthi Sugars Ltd., Appakudal, Tamil Nadu	25.00 MW	149.50 MW
2.	Shree Ambika Sugars Ltd., Kottur, Tamil Nadu	24.00 MW	
3.	Terra Energy Ltd., Thirumandankudi, Tamil Nadu	22.50 MW	
4.	Terra Energy Ltd., A. Chittur, Tamil Nadu	20.00 MW	
5.	Shree Ambika Sugars Ltd., Pennadam, TamilNadu	6.00 MW	
6.	Rajshree Sugars & Chemicals, Unit - 1, Theni	22.00 MW	
7.	Dharani Sugars and Chemicals Ltd, Polur, Tamil Nadu	30.00 MW	
8.	Sri Chamundeswari Sugars Ltd., Unit -III, Karnataka	18.00 MW	211.00 MW
9.	Shri Someshwar SSK Ltd., Karnataka	8.00 MW	
10.	Chincholi Sugar and bio industries Ltd., Karnataka	30.00 MW	
11.	Shree Bhasaveshwar Sugars Limited, Karnataka	26.00 MW	
12.	Keerthi Industries Limited., Karnataka	20.00 MW	
13.	GMR Industries Ltd, Raibagh, Karnataka	33.00 MW	
14.	Laila Sugars Limited., Karnataka	24.00 MW	
15.	C.F. Bio Tech, Karnataka	32.00 MW	
16.	Sri Chamundeswari Sugars Limited, Unit - II, Karnataka	20.00 MW	74.00 MW
17.	Sudalagunta Sugars Ltd., Expansion, Andhra Pradesh	16.00 MW	
18.	Trident Sugars Limited, Andhra Pradesh	22.00 MW	
19.	NCS Sugars (Nellore) Limited., Andhra Pradesh	36.00 MW	
20.	Nalawade Sugar Mills Ltd., Maharashtra	20.00 MW	
21.	Majalgaon SSK Ltd., Maharashtra	26.00 MW	
22.	Jarendeshwar Sugar Mills, Maharashtra	20.00 MW	

S.No	Project	Capacity	Regionwise Capacity
23.	Lokmanya Sakhar Udyog Ltd., Maharashtra	22.00 MW	307.00 MW
24.	Chintamani Agrotech (India) Ltd., Maharashtra	30.00 MW	
25.	Shree Siddheshwar Sahakari Sakhar Karkhana Ltd, Kumathe, Maharashtra	38.00 MW	
26.	Shri Ambalika Sugar Pvt Ltd,Pune,Maharashtra(Unit II)	18.00 MW	
27.	Rajarambapu Patil SSK Ltd, Sangli, Maharashtra	28.00 MW	
28.	Lokmangal Agro Industries Ltd., Maharashtra	30.00 MW	
29.	Fabtech Projects & Engineers Ltd, Maharashtra	22.00 MW	
30.	Karmayogi Shankarraoji Patil S.S.K Ltd, Maharashtra	25.00 MW	
31.	Athani Sugars Limited, (Unit - II), Bambawade, Maharashtra A/c. Udaysingrao Gaikwad S.S.K Limited	28.00 MW	
32.	The Seksaria Biswan Sugar Factory Ltd, Uttar Pradesh	32.00 MW	
33.	Wave Industries Ltd., Uttar Pradesh	40.00 MW	
34.	PBS Foods Pvt Ltd., Uttar Pradesh	40.00 MW	
35.	Gobind Sugar Mills Ltd., Uttar Pradesh (Phase - II)	16.00 MW	27.00 MW
36.	Indo Green Fuel Consultancy, Bihar	27.00 MW	27.00 MW
37.	Etihad Sugar Mills, Pakistan.	2 X 37.2 MW	480.4 MW
38.	Kashmir Sugar Mills Ltd, Pakistan.	40.00 MW	
39.	Ittefaq Sugar Mills Ltd, Pakistan.	30.00 MW	
40.	Swift Energy (Private) Limited, Pakistan	2 X 31.5 MW	
41.	Sheikhoo Power (Pvt) Limited, Pakistan	30.00 MW	
42.	Hunza Power (Private) Limited, Pakistan	2 X 24.9 MW	
43.	Mirpurkhas Sugar Mills Limited, Pakistan	25.5 MW	
44.	Mehran Sugar Mills limited, Pakistan	26.5 MW	
45.	Faran Sugar Mills limited, Pakistan	26.5 MW	
46.	Habib Sugar Mills limited, Pakistan	26.5 MW	
47.	Ramzan Energy Limited, Pakistan	27.00 MW	
48.	RYK Mills Limited, Pakistan	30.00 MW	
49.	Bahawalpur Energy Limited, Pakistan	31.2 MW	
50.	KCP Sugar and Industries, Vietnam	30.00 MW	30.00 MW
51.	The Fiji Sugar Corporation Limited, Rarawai, Fiji Islands	2 X 20 MW	40.00 MW
	TOTAL	1446.90 MW	1446.90 MW

C. LIST OF BANKABLE DETAILED PROJECT REPORTS

S.No	Project	Capacity
1.	S.V.Sugars Limited, Tamil Nadu	15.00 MW
2.	Sakthi Sugars Ltd., Unit - I, Tamil Nadu	10.00 MW
3.	Dharani Sugars Ltd., Expansion - Tamil Nadu	10.00 MW
4.	Salem Co-op. Sugar Mills Ltd., Tamil Nadu	16.00 MW
5.	Rajshree Sugars and Chemicals, Tamil Nadu	22.00 MW
6.	Pondicherry Co-op. Sugar Mills Ltd., Pondicherry	14.50 MW
7.	Manakula Vinayagar Sugar Mills Ltd., Tamil Nadu	18.00 MW
8.	Dharani Sugars and Chemicals Ltd, Polur, Tamil Nadu	30.00 MW
9.	Deccan Sugars Limited, Andhra Pradesh	9.00 MW
10.	Sarvaraya Sugars Ltd., Andhra Pradesh	10.00 MW
11.	Empee Power Co. Ltd., Andhra Pradesh	20.00 MW
12.	Chodavaram Cop-op. Sugars Ltd., Andhra Pradesh	2.00 MW
13.	GSR Sugars Ltd., Andhra Pradesh	16.50 MW
14.	NCS Gayatri Sugars Ltd.,Cogen Expansion, Andhra Pradesh	10.00 MW
15.	GMR Technologies and Industries Ltd., Andhra Pradesh	20.00 MW
16.	Nava Bharat Ventures Ltd., Unit II, Andhra Pradesh	20.00 MW
17.	Coromandel Sugars Ltd, Andhra Pradesh	20.00 MW
18.	Sri Sarvaraya Sugars Limited, Chelluru, Andhra Pradesh (Ongole unit)	20.00 MW
19.	Trident Sugars, Andhra Pradesh	22.00 MW
20.	VDB Sugars Ltd, Nellore	20.00 MW
21.	Malaprabha Co-op. Sugar Factory Ltd., Karnataka	12.00 MW
22.	Mysore Paper Mills Limited, Karnataka	10.00 MW
23.	Bhima Shankar Sugar Mills Limited, Karnataka	6.00 MW
24.	Global Energy Limited, Karnataka	20.00 MW
25.	Shree Mahadeshwar Sugar Mills., Karnataka	20.00 MW
26.	Mysore Fruit Products Ltd., Karnataka	20.00 MW
27.	Nandi Sahakari Sakkare Karkhane Ltd., Karnataka	18.00 MW
28.	Sri Sreerama SSK Ltd., Karnataka	8.00 MW
29.	ICL Sugars Ltd., Karnataka	12.00 MW
30.	Shri Prabhulingeshwar Sugar and Chemicals Ltd., Karnataka (Plant Expansion)	20.00 MW
31.	Shree Renuka Sugars Ltd., Unit - V, Havalga, Karnataka	25.00 MW

S.No	Project	Capacity
32.	Sovereign Distilleries Ltd, Karnataka	24.00 MW
33.	EID Parry (I) Industries Ltd, Karnataka	13.00 MW
34.	Laila Sugars Ltd, Karnataka	24.00 MW
35.	Sadashiva Sugars Ltd, Karnataka	20.00 MW
36.	Bannari Amman Sugars Ltd, Karnataka	27.00 MW
37.	Athani Sugars Ltd, Karnataka	25.00 MW
38.	Godavari Bio-Refineries Ltd, Karnataka	27.00 MW
39.	The Naranja SSK Ltd., Bidar, Karnataka	35.00 MW
40.	Purna SSK Limited, Maharashtra	16.00 MW
41.	Vaidhyanath SSK Ltd, Maharashtra	20.00 MW
42.	Shri Makai SSK, Maharashtra	18.00 MW
43.	Rajaram Bapu Patil Sahakhari Sakkhar Karkhane Ltd., Walwa, Islampur, Maharashtra	30.00 MW
44.	Rajaram Bapu Patil Sahakhari Sakkhar Karkhane Ltd., Wategaon, Maharashtra	16.00 MW
45.	Vaishnavi Sugars India Ltd., Maharashtra	8.00 MW
46.	Shri Dnyaneshwar SSK Ltd., Maharashtra	22.00 MW
47.	Prithvi Energy Ltd., Maharashtra	20.00 MW
48.	Shri Shankar SSKL Ltd., Maharashtra	7.00 MW
49.	Karmyogi Shankarraoji Patil SSK Ltd, Maharashtra	29.00 MW
50.	Shree Siddheshwar SSK Ltd, Maharashtra	26.00 MW
51.	Nira-Bhima SSK Ltd, Indapur, Maharashtra	9.00 MW
52.	Ghodganga Sahakari Sakhar Karkhana Ltd., Maharashtra	26.00 MW
53.	Shri Ambalika Sugar Pvt Ltd, Pune, Maharashtra	18.00 MW
54.	Rajarambapu Patil SSK Ltd, Sangli, Maharashtra	28.00 MW
55.	Lokmangal Agro Industries Ltd., Maharashtra	30.00 MW
56.	Shri Datta Sakhar Karkhana, Maharashtra	23.00 MW
57.	Indapur Sahakari Sakhar Karkhana Limited, Maharashtra	25.00 MW
58.	Cane Agro Energy India Ltd, Maharashtra	36.00 MW
59.	Athani Sugars Limited, (Unit - II), Bambawade, Maharashtra	28.00 MW
60.	Athani Sugars Limited, (Unit - III), Maharashtra	28.00 MW
61.	Ninaidevi SSK, (Dalmia), Maharashtra	23.00 MW
62.	Vikas Sahakari Sakhar Karkhana Ltd, Latur, Maharashtra	24.00 MW
63.	Daund Sugar Pvt. Ltd, Maharashtra	39.00 MW

S.No	Project	Capacity
64.	Jarandewhwar Sugar Mills Pvt. Ltd, Maharashtra	30.00 MW
65.	Astoria Agro and Allied Industries Pvt. Ltd, Maharashtra	30.00 MW
66.	Priyadarshini SSK, Maharashtra	26.50 MW
67.	Mahakaushal Sugar & Power Industries Ltd, Madhya Pradesh	12.00 MW
68.	The Seksaria Biswan Sugar Factory Limited, Uttar Pradesh	32.00 MW
69.	Agauta Sugars & Chemicals Limited, Uttar Pradesh	15.00 MW
70.	SMC Thermal Power Ltd., Uttar Pradesh	15.00 MW
71.	Kissan Sahakari Chini Mills Ltd, Najibabad, Uttar Pradesh	8.00 MW
72.	Kissan Sahakari Chini Mills Ltd, Belrayan, Uttar Pradesh	5.00 MW
73.	L.H.Sugar Mills Ltd., Piliphit, Uttar Pradesh	9.00 MW
74.	J.H.V. Sugars Ltd., Uttar Pradesh	12.00 MW
75.	Simbhaoli Sugars Ltd., Uttar Pradesh	19.00 MW
76.	Chilwaria Sugars Ltd., Uttar Pradesh	16.00 MW
77.	Modi Sugar Mills Ltd., Uttar Pradesh	15.00 MW
78.	SI-AL SBEC Bio Energy Ltd., Uttar Pradesh	20.00 MW
79.	Gobind Sugar Mills Ltd., Uttar Pradesh	30.00 MW
80.	A Infrastructure Limited (Kanoria Sugars), Uttar Pradesh	40.00 MW
81.	The Seksaria Biswan Sugar Factory Limited, Uttar Pradesh	26.00 MW
82.	Rai Bahadur Narain Singh Sugar Mills Ltd, Uttaranchal	15.00 MW
83.	Tirupathi Sugars, Bihar	30.00 MW
84.	Yamuna Bio-Power Limited, Haryana	15.00 MW
85.	Saraswathi Sugar Mills Ltd., Haryana	32.00 MW
86.	Wahid Sandhar Sugar Mills Ltd., Punjab	24.00 MW
87.	F.U.E.L Steam and Power Generation Ltd, Mauritius	90.00 MW
88.	Janpur Energy Limited, Pakistan	60.00 MW
89.	Tana Delta Development project, Malindi, Kenya	34.00 MW
90.	Nzoia Sugar Company Ltd, Bungoma, Kenya	10.00 MW
91.	Kibos Sugar & Allied Industries, Kisumu, Kenya	20.00 MW
92.	West Kenya Sugar Company, Kenya	34.00 MW
93.	South Nyanza Sugar Company Ltd, Kenya	20.00 MW
94.	Asiatic Oxygen Limited, Kisii, Kenya	18.00 MW
95.	Kinyara Sugars, Uganda	34.00 MW
96.	The Fiji Sugar Corporation Limited, Rarawai, Fiji Islands	40.00 MW

S.No	Project	Capacity
97.	Chiniot Power Limited, Pakistan	2 X 31 MW
98.	Etihad Sugar Mills Ltd, Pakistan	60.00 MW
99.	Kashmir Sugar Mills Ltd, Pakistan.	60.00 MW
100.	Ittefaq Sugar Mills Ltd, Pakistan.	60.00 MW
101.	Swift Energy (Private) Limited, Pakistan	2 X 31.5 MW
102.	Sheikhoo Power (Pvt) Limited, Pakistan	30.00 MW
103.	Hunza Power (Private) Limited, Pakistan	2 X 31.2 MW
	Total	2444.30 MW

Note: In addition, Avant-Garde have experience in providing Engineering services for various new Sugar Plants, Modernisation of existing plants and Addition of Co-Generation Plants in other major countries like South Africa, Swaziland, Kenya, Mauritius, Uganda, Vietnam, Philippines, Fiji Islands, Pakistan etc.

D. NUMBER OF BAGASSE BASED CO-GENERATION UNITS (CYCLE PARAMETER WISE)

S.No	Cycle Parameters (Bar(A)/° C)	Commissioned	Under Implementation
1	45/440 & < 45/440	15	5
2	67/485	23	1
3	87/515	29	6
4	110/535	26	29
5	125/545	2	7
	Total	95	48

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**)
- **Consultancy Development Centre (CDC)**
- 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)

* * * *