

DISTILLERY & SLOP / VINASSE FIRED CO-GENERATION PLANT PROFILE



AVANT-GARDE ENGINEERS AND CONSULTANTS (P) LTD

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



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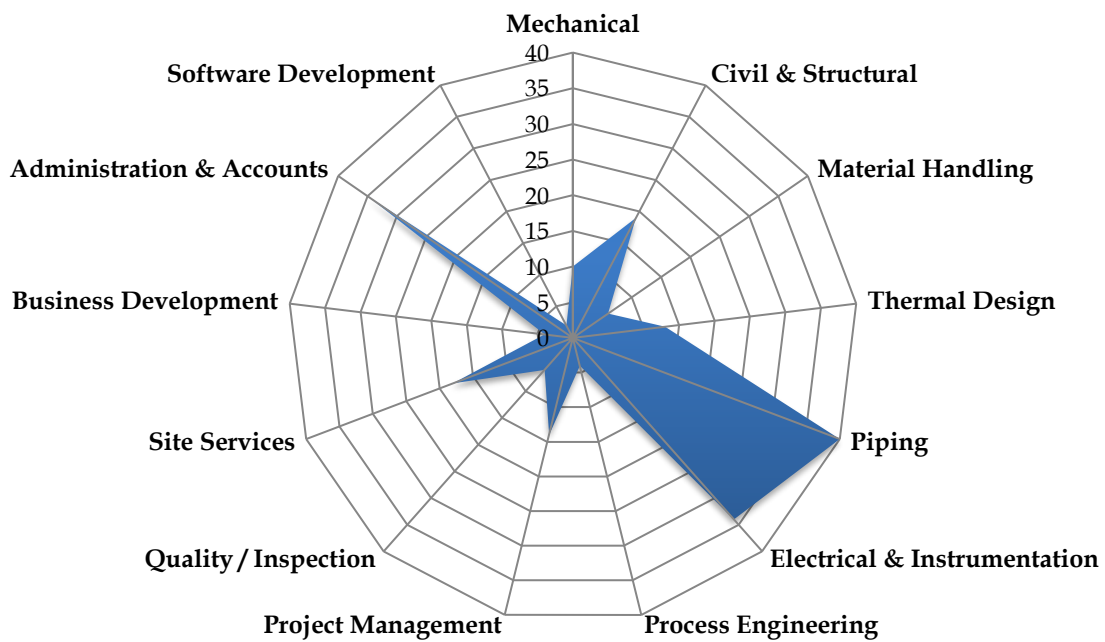
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INCEPTION

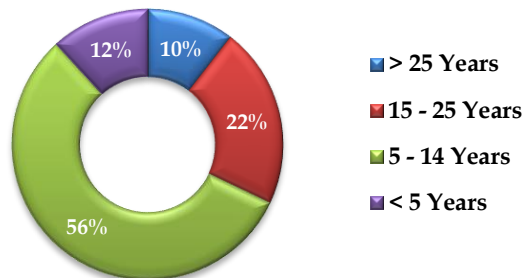
- ❖ YEAR OF ESTABLISHMENT - 1990

STAFFING

- ❖ MULTI DISCIPLINARY TEAM COMPRISE OF MORE THAN 200 WORKFORCE



YEARS OF EXPERIENCE



CONTACT PERSON

- ❖ P.S. SANKARANARAYANAN, DIRECTOR

ENGINEERING SERVICES PROVIDED FOR DISTILLERY

- Feasibility Report for Distillery installation in existing Sugar Plants
- Feasibility Report for Distillery installation in new Sugar Plants or stand alone plants
- Detailed Project Report for Distillery installation in new Sugar plants or stand alone plants
- Detailed Project Report for Distillery installation in existing Sugar plants or stand alone plants
- Plant layout, project design and equipment layout
- Distillery plant automation
- Detailed engineering of Electrical, Mechanical, Instrumentation, Civil & Structures for Distillery plant & ETP of distillery plant
- Piping for process area, steam distribution
- Instrumentation - DCS, PLC, Micro-processor
- Plant Building Design
- Civil works, foundation design for plant, equipment, TG, chimney etc
- Structural design and engineering.
- SLOP fired steam generator design and engineering
- Waste Water Treatment to ensure 'Zero' Liquid Effluent Discharge from the Distillery
- Third party inspection services
- Procurement engineering for Distillery plant & machinery
- Distillery turnkey consultancy services
- Site supervision services
- Engineering software development

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

DISTILLERY PLANT TURNKEY CONSULTANCY EXPERIENCE

I. DISTILLERY PROJECTS WITH EFFLUENT TREATMENT SYSTEM

A. LIST OF COMMISSIONED PROJECTS

S.No	Project	Description
1.	Mumias Sugars Company Ltd, Mumias Kenya	80 KLPD Multi product Distillery with Slop fired Boiler and 2 MW back pressure Turbogenerator system
2.	Madhucon Sugar and Power Industries Limited., Andhra Pradesh	65 KLPD Multi product Molasses & Grain based distillery with Slop fired Boiler and 2.3 MW back pressure Turbogenerator system
3.	S.V. Sugar Mills Limited, Tamil Nadu	Avant-Garde have provided Lender's Engineers services for 100 KLPD Distillery plant which includes Distillery with Bio-Gas, Evaporation system, Boiler, etc., This project has been commissioned and performing well

B. LIST OF PROJECTS UNDER VARIOUS STAGES OF IMPLEMENTATION

S.No	Project	Description
1.	Dhanalakshmi Srinivasan Sugars Private Ltd, Tamil Nadu	60 KLPD Multi product Distillery with Slop firing system
2.	Coromandel Sugars Ltd, Karnataka	45 KLPD Multi product Distillery with Slop firing system
3.	Gobind Sugar Mills Limited, Uttar Pradesh	60 KLPD Multi product Distillery with Slop firing system
4.	Rajarambapu Patil Sahakari Sakhar Karkhana Limited, Maharashtra	45 KLPD Distillery with Slop firing system
5.	Lokmangal Mauli Industries Limited., Maharashtra	120 KLPD Multi product Distillery with Slop firing system
6.	DSCL Sugar (DCM Shriram), Uttar Pradesh	150 KLPD Multi product Distillery with Slop firing system

C. LIST OF BANKABLE DETAILED PROJECT REPORTS

S.No	Project	Description
1.	Dhanalakshmi Srinivasan Sugars Private Ltd, Tamil Nadu	60 KLPD Multi product Distillery with Slop firing system
2.	Dharani Sugars and chemicals Ltd, Unit-III, Tamil Nadu	75 KLPD Multi product Distillery with Slop firing system

S.No	Project	Description
3.	Manakula Vinayagar Sugars Private Ltd, Pondicherry	30 KLPD Multi product Distillery with Slop firing system
4.	Nava Bharat Ventures Limited, Andhra Pradesh	45 KLPD Multi product Distillery with Slop firing system and 60 KLPD Multi product & Grain/Cassava based distillery with DDGS System
5.	HRUDAI Bio Tech Private Limited, Andhra Pradesh	60 KLPD Grain based Distillery Plant
6.	Hemarus Technologies Ltd, Maharashtra	45 KLPD Multi product Distillery with Slop firing system
7.	Sunil HiTech Enginerrrs Ltd, (Gangakhed Sugar & Energy Private Ltd), Maharashtra	60 KLPD Multi product Distillery with Slop firing system
8.	Lokmangal Agro Industries Limited, Distillery division, Maharashtra	80 KLPD Multi product Distillery expansion system with bio digestion, bio-gas introduction and bio composting
9.	Alkoplus Producers Private Limited., Maharashtra	Conversion of Distillery from Grain to Molasses and Slop fired Cogeneration Project
10.	Bhoruka Power Corporation Ltd (Bhagyalaxmi SSK Ltd) Karnataka	45 KLPD Multi product Distillery with Slop firing system
11.	Sri Chamundeswari Sugars Limited, (Hemavathy SSK Ltd) Unit-II, Karnataka	50 KLPD Multi Product Distillery with bio-composting
12.	Alagawadi Bireswar Sugars Pvt. Ltd, (GMR Group), Karnataka	100 KLPD Multi product Distillery with Slop firing System
13.	Shree Basaveshwar Sugars Ltd, Karnataka	60 KLPD Multi product Distillery with Slop firing system
14.	Coromandel Sugars Ltd, Karnataka	45 KLPD Multi product Distillery with Slop firing system
15.	C.F. Energy & Biofuels Private Ltd, Gadag, Karnataka	175 KLPD Sweet Sorghum / Sugar cane molasses based distillery with Slop firing system
16.	Gobind Sugar Mills Limited, Uttar Pradesh	60 KLPD Multi product Distillery with Slop firing system
17.	Concast Beverages Pvt. Ltd, West Bengal	45 KLPD Grain based Distillery Plant
18.	Nzoia Sugars Company Ltd, Bungoma, Kenya	Two phases of 45 KLPD Multi product Distillery with Slop firing system and other ETP system

S.No	Project	Description
19.	Kakira Sugars Limited, Uganda	60 KLPD Multi product Distillery with Slop firing and other ETP systems

D. DETAILED ENGINEERING SERVICES FOR PIPING, ELECTRICAL, CIVIL, INSTRUMENTATION PACKAGES AND ADDITION OF THERMIC FLUID HEATERS

S.No	Project	Description
1.	Dalmia Chini Mills Ltd, Unit-I, Jawaharpur, Uttar Pradesh	45 KLPD Distillery (Electrical & piping Engineering services)
2.	A.B.Grains and Spirits Ltd, Batala, Punjab	Power plant for 120 KLPD grain based Distiller
3.	Triveni Engineering Industries Ltd, Uttar Pradesh	160 KLPD Distillery (Electrical & Piping engineering services)
4.	Nanglammal Distilleries Ltd (Unit of Mawana Sugars), Uttar Pradesh	130 KLPD Distillery (Electrical & Piping engineering services)
5.	Sri Ambika Sugar Mills Ltd, Tamil Nadu	60 KLPD Distillery (Biomass fired boiler and 2 MW back pressure TG Power plant for the distillery and piping engineering services)
6.	GMR Industries Ltd, Haliyal, Karnataka	45 KLPD Distillery (Piping and Electrical Engineering services)
7.	Alkoplus Producers Private Limited., Maharashtra	Installation of Thermic Fluid Heater for 60 KLPD AA plant
8.	Lokmangal Agro Industries Limited., Maharashtra	Installation of Thermic Fluid Heater for 300 KLPD AA Plant.

II. SLOP FIRED CO-GENERATION PLANT IN DISTILLERY PLANTS

A. LIST OF COMMISSIONED PROJECTS

S.No	Project	Description
1.	Rajashree Sugars and Chemicals Ltd, Gingee, Tamil Nadu	Slop fired boiler and back pressure TG for 60 KLPD Multi product distillery
2.	EID Parry India Ltd, Sivaganga Unit, Tamil Nadu	Slop fired boiler and back pressure TG for 60 KLPD Multi product distillery
3.	Sunil HiTech Engineers Ltd, (Gangakhed Sugar & Energy Private Ltd), Maharashtra	Slop fired boiler for 60 KLPD Multi product distillery
4.	Shri Ambalika Sugar Pvt Ltd, Maharashtra	Slop fired boiler and back pressure TG for 45 KLPD Multi product distillery

S.No	Project	Description
5.	Daund Sugars Limited, Ahmednagar, Maharashtra	Slop fired boiler and back pressure TG for 110 KLPD Multi product distillery
6.	Bannari Amman Sugars Ltd, Nanjangud, Karnataka	Slop fired boiler and back pressure TG for 80 KLPD Multi product distillery
7.	GMR Industries Ltd, Haliyal, Karnataka	Slop fired boiler for 45 KLPD Multi product distillery
8.	Vijayanagar Sugars Ltd, Andhra Pradesh	Slop fired boiler and back pressure TG for 130 KLPD Multi product distillery
9.	Shri Datta SakharKarkhana, (A Unit of Dalmia Bharat Sugar and Industries Limited) Kolhapur Maharashtra	Slop fired boiler and back pressure TG for 60 KLPD Multi product distillery
10.	Mankapur Chini Mills Ltd, Uttar Pradesh.	Slop fired Boiler and back pressure TG for 100 KLPD Multi product Distillery
11.	Blue Nile Distilleries Limited	Study and evaluation of 63 KLPD grain based distillery with 1.8 MW CPP for the purpose of acquisition from M/s. Empee Distilleries, Andhra Pradesh

B. LIST OF PROJECTS UNDER VARIOUS STAGES OF IMPLEMENTATION

S.No	Project	Description
1.	Dhanalakshmi Srinivasan Sugars Private Ltd, Tamil Nadu	Slop fired Boiler and back pressure TG for 60 KLPD Multi product Distillery
2.	Sakthi Sugars Ltd, Unit-1, Tamil Nadu	Slop fired Boiler and TG for 135 KLPD Multi product Distillery
3.	Godavari Biorefineries Limited, Sameerwadi, Karnataka	Slop fired Boiler and back pressure TG for 200 KLPD Multi product Distillery
4.	Sudalagunta Sugars Ltd, Andhra Pradesh	Slop fired Boiler and back pressure TG for 130 KLPD Multi product Distillery
5.	Godavari Biorefineries Limited, Sakarwadi, Maharashtra	Slop fired Boiler and back pressure TG for 150 KLPD Multi product Distillery
6.	Jay Mahesh Sugar Industries Limited, Pawarwadi, Maharashtra	Slop fired Boiler and back pressure TG for 100 KLPD Multi product Distillery
7.	Athani Sugars Limited (Unit - II), Maharashtra.	SLOP Fired Cogeneration Plant for 90 KLPD Distillery
8.	Jarandeshwar Sugar Mills Limited, Maharashtra	Slop fired Boiler and back pressure TG for 45 KLPD Multi product Distillery
9.	Astoria Agro & Allied Industries Pvt Ltd, Maharashtra	Slop fired Boiler and back pressure TG for 45 KLPD Multi product Distillery

S.No	Project	Description
10.	Lokmangal Agro Industries Limited, Solapur, Maharashtra	Slop fired Boiler and back pressure TG for 160 KLPD Multi product Distillery
11.	Vikas Sahakari Sakhar Karkhana Ltd, Maharashtra (Unit - I)	Slop fired Boiler and back pressure TG for 2 X 30 KLPD Distillery Plant
12.	Rajarambapu Patil Sahakari Sakhar Karkhana Limited, Maharashtra	Slop fired Boiler and back pressure TG for 100 KLPD Distillery plant
13.	Jaywant Sugars Limited., Maharashtra	Slop fired boiler and back pressure TG for 47 KLPD Distillery Plant
14.	K.M Sugar Mills Limited., Uttar Pradesh	Slop fired boiler and back pressure TG for 55 KLPD Distillery Plant
15.	Gobind Sugar Mills Limited, Uttar Pradesh	Slop fired Boiler and back pressure TG for the proposed 60 KLPD Distillery Plant
16.	Balrampur Chini Mills Ltd, Uttar Pradesh. (Babnan Unit)	Slop fired Boiler and back pressure TG for 100 KLPD Multi product Distillery

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)