

PROFILE AT A GLANCE

SUPPLY & SERVICES



AVANT-GARDE SYSTEMS AND CONTROLS (P) LTD



(AN ISO 9001:2015 CERTIFIED ORGANISATION & ASME "S" STAMP HOLDER)

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| | | |
|-------------------------|---|--|
| YEAR ESTABLISHED | : | 1995 |
| KEY PERSONNEL | : | G.V. RAMAN S. BALASUBRAMANIAN P.S. SANKARANARAYANAN K. RAGOTHAMAN C. DAMODARAN SARAS A. ARULKUMAR |
| STAFF | | |
| MANAGERS | : | 200 + |
| ENGINEERS | : | |
| TECHNICIANS / DRAFTSMAN | : | |
| ADMIN & ACCOUNTS | : | |

CONTACT PERSON: P.S.SANKARANARAYANAN, MANAGING DIRECTOR

Avant-Garde Systems and Controls (P) Ltd (AGSC), is a professionally managed, an ISO 9001:2015 organization established by a group of well qualified engineers who had worked earlier with Bharat Heavy Electricals Limited. AGSC is having a group of professionals with vast experience and proven capability. AGSC is an associated company of Avant-Garde Engineers and Consultants Private Ltd, a pioneer Consultancy and Detailed Engineering Services organisation in India.

AREAS OF OPERATION

Engineering Procurement and Construction Services
Solar Thermal & Solar PV power plants
Fuel Feeding systems
Fuel Combustion systems
Electrical systems
Automation including Controls and Instrumentation
Project Management
Remnant Life Assessment of power plant equipment
Energy Audit of Power / Process Plants
Operation & Maintenance for Power Plants - Mechanical, Electrical and Automation
Erection & Commissioning assistance for Power Plants - Mechanical, Electrical and Automation
Performance Testing Services
Inspection Services
Training - Power plant equipment basic Design, Operation and Maintenance
Engineering Co-ordination at Site

DETAILED ENGINEERING SERVICES

Performance Improvement of existing Boilers
Capacity up-gradation of existing Boilers
Revamping of Fuel Feeding Systems
Renovation of Combustion Systems
Conversion of Furnace for Multi Fuel Firing
Plant Electrical System including Switchyard Design

PROCUREMENT SERVICES

Vendor Rating
Preparation of Specification
Evaluation of Offers
Preparation of Draft Purchase Order
Vendor drawing review
Expediting services

SERVICES OFFERED

MECHANICAL

Annual shutdown Inspection of Boiler
Study of Boiler for Performance Improvement
Study of Boiler for Capacity Up-Gradation
Study of Equipment for shifting, re-habilitation and re-installation
Study of Boiler for Renovation of the Combustion System
Study on Tube Failures
Study on auxiliary Power Consumption
Study of Boiler for Remnant Life Assessment (RLA)
Engineering services for Incorporation of Continuous fuel feeding system.
Engineering services for Implementation of the Performance Improvement Program
Engineering services for Implementation of Capacity up-gradation program
Performance test of Boilers as per the code

ELECTRICAL

Harmonic Studies.
Plant Illumination.
Physical installation Layout to show the locations of Electrical items.
Cable tray and trench Layout.
Cable schedule and interconnection chart for complete plant.
Earthing Layouts.

Bill of Materials for BoP

Preparation of relay setting chart and its coordination based on the study of the existing electrical distribution for safe, trip less operation of the plant to improve the availability of the plant.

Special study on unique problems being faced in the electrical system.

AUTOMATION

Preparation of P & ID

Preparation of Instrumentation Cable Schedule

Preparation of Instrument Hook up Drawing

Preparation of Instrument Specification

Preparation of Instrument Loop Drawing

Preparation of Safety Interlock Drawing

Design of Control Panels

Preparation of Erection BOM

Turnkey Execution of Instrumentation Systems including PLC, DCS, SCADA.

Annual Maintenance of Plant Instrumentation

Engineering Software Development for PLC, DCS, SCADA.

SPECIALISED SERVICES

Concept to commissioning services for conversion of Boilers to various alternative fuels such as Bagasse, Biomass, Coal etc., with the Fuel Handling, feeding and firing system.

Accurate Estimate of Erection Hardware for plant Instrumentation Tuning and commissioning of various complicated control loops like boiler three element drum level control, steam temperature control, combustion control etc

Modernization of old plant Instrumentation / changing over to new Instrumentation (like single loop controller/PLC/DCS) with minimum down time of plant Installation Services in big plants (more than 3000 I/Os) involving DCS and Field instruments

Study of old plants to envisage revamping of instrumentation to meet higher productivity / increased efficiency / safe operation with minimum investment
Design and development of complicated logics and control loops.

LIST OF SUPPLY ITEMS

MECHANICAL

1. Equipment for Continuous bagasse feeding system with silo
2. Three Drum type bagasse feeders
3. Single Drum Bagasse extractor
4. Screw Feeder
5. Pneumatic bagasse and Coal distributor

6. Rotary Air Dampers
7. Stainless Steel Flexible Hoses
8. Motorized Rack & Pinion Gates
9. Air lock ash discharge valves
10. SCAPH systems
11. Steam drier Boxes for steam drum of Boiler
12. Spare drums for Bagasse extractor
13. screw assembly with shaft/screw flight for screw feeder
14. Over fire Air Nozzles
15. Isolation / Control Dampers for air / Gas applications
16. Expansion bellows with SS convolutes for air / gas applications
17. Dumping Grate Assembly and Components
18. Travelling Grate Assembly and Components
19. Mechanical dust Collector and its Elements
20. Ash Silo and its elements
21. ID, FD & SA fans
22. Air pre-heater tube plates and tubes
23. Carbon steel, alloy steel and stainless steel tubes and pipes
24. Bagasse Carrier Chains
25. All major spares for Power plant and Sugar Plant Equipment
26. Boiler Pressure parts
27. Boiler non pressure parts

ELECTRICAL

1. Switchyards with voltage levels up to 220 kV.
2. System comprising of 33 / 11 / 6.6 / 3.3 kV Switchboards, HT bus duct, HT cables and HT motors.
3. Transformers.
4. Complete LT system comprising of LT PCCs, MCCs, MLDBs, VFD Panels, LT busducts, LT motors, LT cables, earthing and lightning system.
5. Load Sharing and Load Shedding Panels.
6. Refurbishment of existing relay panels with implementation of state of the art numerical relays.
7. Retrofitting jobs on panels like AVRs, VFDs etc, as required for the plant up gradation.
8. Illumination system including lights, fixtures, lighting DBs and other related accessories.
9. Energy Management System.
10. Cable trays with supports, earthing electrodes and earth pits, LPBS, adopter boxes and cable terminations.
11. Power distribution boxes, power sockets and Isolator boxes.
12. Lighting Transformers, Neutral Grounding Resistors and Earthing Transformers.

AUTOMATION

1. DCS
2. PLC
3. SCADA
4. Controllers
5. Control Panels
6. Transmitters
7. All Types of Field Instruments
8. All Types of Control & Instrumentation Cables
9. Instrument Erection Hardware

SUPPLY OF EQUIPMENT AND SPARES FOR POWER PLANT & SUGAR PLANT (PARTIAL LIST)

| S.NO | PROJECT | CLIENT |
|------|---|---|
| 1. | Supply of Bottling plant for Distillery Supply of Stainless-Steel valves & pumps for Distillery | JJSAM Consultancy and General Services Ltd, Kenya |
| 2. | Mechanical Dust Collector Air lock ash discharge valves Air pre-heater tube plates ID and SA fans Butterfly Dampers Multi Louver Dampers Universal Expansion bellows of assorted sizes Over Fire Air nozzles | Lopez Sugar Corporation Ltd, Philippines |
| 3. | Centrifugal Bowl for massecuite | |
| 4. | Travelling Grate Assembly for a 100 TPH Boiler | |
| 5. | Poly Isobutene grease for Travelling Grate | |
| 6. | Intake cone for FD fan and segmental orifice for SA fan including Transmitters, for air flow measurements | |
| 7. | Supply of Cone Vacuum Pump & Rotor Vacuum Pump | |
| 8. | Supply of bends for economizer | |
| 9. | Supply of Planetary Geared Motor | |
| 10. | Dumping Grate assembly for 135 TPH Boiler | |
| 11. | Dumping Grate assembly for 140 TPH Boiler | Descon Engineering Ltd, Pakistan |
| 12. | Metallic expansion bellow for large flue Gas Duct | Parry Sugar India Ltd, Karnataka |

| S.NO | PROJECT | CLIENT |
|------|--|--|
| 13. | Rubber plugs for Evaporator Tubes for Sugar Plant | Nzoia Sugar Company Ltd, Kenya |
| 14. | Supply of spares for pump | Kallakurichi Co-operative Sugar Mills Ltd - Villupuram |
| 15. | Supply of pump - C.I. Impeller | Perambalur Sugar Mills Ltd-Perambalur |
| 16. | Supply of spares for Injection pump | Arignar Anna Sugar Mills-Thanjavur |
| 17. | Supply of spares screw assembly with spares | Gangakhed Sugar & Energy Ltd, Karnataka |
| 18. | Supply of screw feeder casing | EID Parry India Ltd - Ramdurg |
| 19. | Supply of travelling grate spares | Rushi Engineering Works-Pune |
| 20. | Supply of spares for: <ul style="list-style-type: none"> • Syrup Pump • Lime Pump • Mud Pump • Filter Pump | M.R.Krishnamurthy Co-op. Sugar Mills Ltd - Cuddalore |
| 21. | Supply of Coupling between screw feeder Gearbox and Motor including bore & keyway machining | Greenesol Power Systems Pvt Ltd A/c. chanar Power-Pakistan |
| 22. | Supply of Screw feeder spares | E.I.D Parry (India) Limited -Ramdurg |
| 23. | Supply of Pneumatic Distributor | KBK Biotech Private Limited-Andhra pradesh |
| 24. | Super-heater coils for FCB & Alpha Boilers | Nzoia Sugar Company Ltd-Kenya |
| 25. | Dumping grate Bars | M/s. Subramaniya Siva Co-Operative Sugar Mills Ltd |
| 26. | Pocket feeders for Rice Husk | Singaraya Hills Green Power Genco Pvt Ltd, Andhra Pradesh |
| 27. | Assorted sizes of simplex and duplex chain & sprockets with flame hardening | ISGEC Heavy Engineering Limited, Uttar Pradesh |
| 28. | Horizontal tubular Air Heater Block | Tropikwood Industries Ltd, Fiji Islands |
| 29. | Lance pipes for soot blowers | Tropikwood Industries Ltd, Fiji Islands |
| 30. | Order for engineering, design, manufacture and supply of compact substation for Wairiki factory | Tropikwood Industries Ltd, Fiji Islands |
| 31. | Order for supply of VSD to Tropik wood | Tropikwood Industries Ltd, Fiji Islands |

| S.NO | PROJECT | CLIENT |
|------|--|---|
| 32. | Supply of walkway Grating | Tropikwood Industries Ltd, Fiji Islands |
| 33. | Refractory and insulation materials for Labasa and Rarawai Project | Fiji Sugar Corporation Ltd, Fiji Islands |
| 34. | Gate valve for Labasa and Rarawai Project | Fiji Sugar Corporation Ltd, Fiji Islands |
| 35. | Pipe and Pipe fittings for Labasa and Rarawai Project | Fiji Sugar Corporation Ltd, Fiji Islands |
| 36. | Soot blowers -LRSB | Sadhasiva Sugars Limited, Karnataka |
| 37. | Turbine Auxilliary Oil Pump | Mumias Sugar Company Ltd, Kenya |
| 38. | Boiler and bend Tubes | Fiji Sugar Corporation Ltd, Fiji Islands |
| 39. | Supply of pipe and pipe fittings for steam blowing | Gangakhed Sugar & Energy Ltd Karnataka |
| 40. | Spares for Boiler, Turbine, WTP, Electrical and Automation for a 34 MW, Co-gen Power Plant <ul style="list-style-type: none"> • Superheater Coils • Maintenance Spares for Compressor • Cooling Tower Spares • HP & LP Chemical Dosing Pumps • Oil Seals and Diaphragm • Lab Reagent • Gear Box for polymer dosing tank agitator • Cooling Tower distribution Nozzles • Cooling Tower fan Blades • Submerged Ash Belt Conveyor • Dense phase Ash handling system spares • Chemical Injection /Dosing Pumps • Travelling Grate Spares • ID and SA fans • Spare ID fan Impeller | Mumias Sugar Company Ltd, Kenya |

| S.NO | PROJECT | CLIENT |
|------|---|---|
| | <ul style="list-style-type: none"> High pressure water jet cleaning pumps Hold back assembly for belt conveyor gear unit Bagasse Carrier Chain Butterfly and Multi Louver Dampers Universal Expansion bellows of assorted sizes Over Fire Air nozzles Flying & dead knives for wood chipping Machine Data card for 250 KVA servo stabiliser | Mumias Sugar Company Ltd, Kenya |
| 41. | Screw flight for Screw feeder | The Cheyyar Co-operative Sugar Mills Ltd, Tamil Nadu |
| 42. | Screw flight for Screw feeder | Triveni Engineering & Industries Ltd, Uttar Pradesh |
| 43. | Screw flight for Screw feeder | Urjankur Shree Datta Power Company Ltd, Mumbai |
| 44. | Spare drum for drum extractor | |
| 45. | Spare drum for Drum extractor | EID Parry (I) Ltd, Andhra Pradesh |
| 46. | Spare drum for Drum Extractor | Rajshree Sugars & Chemicals Limited , Villupuram |
| 47. | <ul style="list-style-type: none"> Motorized Long Rectable Soot Blower Mechanical Grate With accessories | Saravaraya Sugars Limites, Andhra Pradesh |
| 48. | Primary and Secondary Superheater Coils | Tropikwood Industries Ltd, Fiji Islands |
| 49. | Water wall tubes | |
| 50. | Expansion Bellows for Hot air duct | Jayawant Sugars Ltd, Maharashtra |
| 51. | <ul style="list-style-type: none"> Square Shaft for dumping grate assy Cast iron fork clamp for bucksta Mechanical Dust Collector Super heater coil clamp Cast iron air nozzle | India Sugar and Refineries Limited, Hospet, Karnataka |
| 52. | <ul style="list-style-type: none"> ID fans with motors Dumping grate Assembly Mechanical Dust Collector Ash handling conveyor Flue gas ducting system Metallic & Non Metallic Expansion bellows for flue gas duct system Dampers for flue gas duct Ash Hoppers | Nzoia Sugar Company Ltd, Kenya |

| S.NO | PROJECT | CLIENT |
|------|---|--|
| | <ul style="list-style-type: none"> • Ash Conditioner with drive • Bucket elevator • Ash Silo • Boiler Economizer supporting structures • Economizer coils with headers • Screen tubes • Super heater coils • Feed water pipe and fittings • Rotary Soot Blowers • Steam pipe for soot blowers • Sample coolers with pipe • IBR & Non-IBR valves | |
| 53. | <ul style="list-style-type: none"> • Rotary Air Damper system • Over Fire Nozzles, • Expansion Bellow & Damper for OFA system | K. M. Sugar Mills Limited- Uttar Pradesh |
| 54. | Expansion Bellow | Shri Balaji Sugars & Chemicals Pvt. Ltd - Karnataka |
| 55. | Non Metallic expansion bellows | Rushi Engineering A/c. Jaywant Sugar Mills ltd- Maharashtra |
| 56. | <ul style="list-style-type: none"> • Spare drum for Bagasse extractor • Screw feeder flight with shaft • SS Flexible Hose | Gobind Sugar Mills Limited- Uttar Pradesh |
| 57. | <ul style="list-style-type: none"> • Bed material feeding arrangement • Stud Anchors for brick wall • Dampers for OFA Nozzle • OFA Nozzles | Sree Rayalaseema Alkalies & Allied Chemicals Ltd- Andhra Pradesh |
| 58. | Bend tubes for floor manifold (Water wall) | Fiji sugar corporation – Lautoka Fiji Islands |
| 59. | <ul style="list-style-type: none"> • Pocket feeder for bed material • Screw conveyor for Lime stone • Rack & pinion gate for bed material | Fives Cail - KCP Limited-Shimizu Corporation India Pvt ltd |
| 60. | <p>APH Assembly</p> <p>Bend tubes on Burner openings</p> <p>Hot air ducting</p> <p>Flue gas ducting</p> <p>Cold air ducting</p> <p>ID Fan with pony drive arrangement</p> <p>Bagasse spreader air fan with motor</p> <p>FD Fan with motor</p> <p>Dumping Grate assembly</p> <p>Fly ash arrestor assembly</p> <p>Softener Plant</p> <p>Steam piping and fitting</p> | Fiji sugar corporation Rarawai Fiji Islands |

| S.NO | PROJECT | CLIENT |
|------|--|----------------------|
| 61. | Rotary Air damper MS-SS over fire nozzles Isolation damper Universal Expansion Bellow | K.M. Sugar Mills Ltd |

EXPERIENCE IN COMBUSTION SYSTEM MODIFICATIONS / BOILER UPGRADATION (PARTIAL LIST)

| S.NO | PROJECT | CAPACITY | LOCATION |
|------|--|--------------------------|--------------------------------|
| 1. | SHREE CHAMUNDESWARI SUGARS LTD | 2 X 45 & 20 TPH | K.M. DODDI, KARNATAKA |
| 2. | THE MANDYA SUGAR COMPANY | 2 X 40 TPH | MANDYA, KARNATAKA |
| 3. | THE INDIA SUGAR AND | 1 X 30 TPH | HOSPET, KARNATAKA |
| 4. | SOUTH INDIA SUGARS LTD | 45 TPH | MUNDIYAMPAKKAM, TAMIL |
| 5. | SHREE AMBIKA SUGARS LTD | 70 TPH | PENNADAM, TAMIL NADU |
| 6. | THIRU AROORAN SUGAR MILLS LTD | 70 TPH | THIRUMANDANKUDI, TAMIL NADU |
| 7. | MRK CO-OP SUGAR MILLS LTD | 70 TPH | SETHIATHOPE, TAMIL |
| 8. | NPKRR COOP SUGAR MILLS LTD | 2 X 20 TPH | THALAINAYARU, TAMIL |
| 9. | TRIVENI ENGINEERING WORKS | 70 TPH | KHATAULI, UTTAR |
| 10. | E.I.D PARRY (INDIA) LIMITED | 50 TPH | NELLIKUPPAM, TAMIL |
| 11. | KUMBHI CHINI MILLS | 2 X 90 TPH | LAKHIMPUR KHERI, UTTAR PRADESH |
| 12. | GULARIA CHINI MILLS | 2 X 90 TPH | LAKHIMPUR KHERI, UTTAR PRADESH |
| 13. | MODI SUGARS | 2 X 35 TPH 1 X 25 TPH | MODI NAGAR, UTTAR PRADESH |
| 14. | LOPEZ SUGAR CORPORATION LTD | 1 X 100 TPH | PHILIPPINES |
| 15. | LOPEZ SUGAR CORPORATION LTD-SPARES FOR VACCUM PUMP | 1 X 100 TPH | PHILIPPINES |
| 16. | NZOA SUGAR COMPANY LTD | 2 X 27 TPH 1 X 54 TPH | KENYA |
| 17. | MUMIAS SUGAR COMPANY LTD | 1 X 120 TPH | KENYA |
| 18. | PARRY SUGARS INDUSTRIES | 2 X 45 TPH | RAMDURG, KARNATAKA |
| 19. | PARRY SUGARS INDUSTRIES | 1 X 85 TPH | BAGALKOT, KARNATAKA |
| 20. | RAMGARH CHINI MILLS | 2 X 45 TPH | SITAPUR, UTTAR PRADESH |
| 21. | TRIDENT SUGARS LTD | 1 X 38 TPH | MADHUNAGAR, ANDHRA PRADESH |
| 22. | AGRI GOLD PROJECTS LTD | 1 X 40 TPH | PRAKASAM DIST. ANDHRA PRADESH |

| S.NO | PROJECT | CAPACITY | LOCATION |
|------|------------------------------------|---------------------------|-----------------------------|
| 23. | BALRAMPUR CHINI MILLS LTD | 1 X 50 TPH | BABHNAN, UTTAR PRADESH |
| 24. | CHADHA SUGARS PVT LTD | 2 X 35 TPH | DHANAURA, UTTAR |
| 25. | RAUZAGAON CHINI MILLS LTD | 1 X 35 TPH 1 X 70 TPH | RAUZAGAON UTTAR PRADESH |
| 26. | SHREE DOODHAGANGA SSKN | 1 X 130 TPH | CHIKODI, KARNATAKA |
| 27. | MOHAN BREWERIES & DISTILLERIES LTD | 1 X 70 TPH | PALAYASEEVARAM , TAMIL NADU |
| 28. | S.V. SUGAR MILLS LTD | 1 X 100 TPH | PALAYASEEVARAM , TAMILNADU |
| 29. | GANPATI SUGAR INDUSTRIES LTD | 2 X 32 TPH | SANGAREDDY, ANDHRA PRADESH |
| 30. | MULA SSK LIMITED | 1 X 80 TPH | SONAI,MAHARASHTRA |
| 31. | JAYWANT SUGARS LIMITED | 1 X 66 TPH | KARAD, MAHARASHTRA |
| 32. | NANDI SAHAKARI SAKKARE KARKHANE | 1 X 35 TPH 1 X 105 TPH | VIJAYAPUR, KARNATAKA |
| 33. | FIJI SUGAR CORPORATION | 1 X 115 TPH | FIJI ISLANDS-RARAWAI |
| 34. | K.M. SUGARS | 1 X 100 TPH 1 X 50 TPH | MOTINAGAR-FAIZABAD |

SUPPLY OF STAINLESS STEEL MESH TYPE STEAM DRIER BOXES TO IMPROVE THE STEAM QUALITY (PARTIAL LIST)

| S.NO | PROJECT | LOCATION |
|------|--|--------------------------|
| 1. | SHREE CHAMUNDESWARI SUGARS LTD | K.M. DODDI,KARNATAKA |
| 2. | THE MANDYA SUGAR COMPANY LTD | MANDYA,KARNATAKA |
| 3. | THE INDIA SUGAR AND REFINERIES LTD | HOSPET,KARNATAKA |
| 4. | NPKRR CO-OPERATIVE SUGAR MILLS LTD | THALAINAYARU, TAMILNADU |
| 5. | KCP VIETNAM INDUSTRIES LTD | VIETNAM |
| 6. | TRIVENI ENGINEERING LIMITED | SAHARANPUR,UTTAR PRADESH |
| 7. | BALRAMPUR CHINI MILLS LTD | BHABNAN, UTTAR PRADESH |
| 8. | HEMARUS TECHNOLOGY AND INDUSTRIES LTD | BELGAUM,KARNATAKA |
| 9. | RAJASHREE SUGARS AND CHEMICALS LIMITED | GINGEE,TAMIL NADU |
| 10. | AARTI INDUSTRIES LIMITED | VALSAD.GUJARAT |
| 11. | KUMBHI CHINI MILLS LTD | LAKHIMPUR KHERI,UTTAR |

| S.NO | PROJECT | LOCATION |
|------|--|-----------------------------|
| 12. | GULARIA CHINI MILLS LTD | LAKHIMPUR KHERI,UTTAR |
| 13. | NZOIA SUGAR COMPANY LTD | KENYA |
| 14. | MADRAS SUGAR LIMITED | THIRUKOVILUR, TAMIL NADU |
| 15. | MANKAPUR CHINI MILLS LTD | MANKAPUR,UTTAR PRADESH |
| 16. | SADHASIVA SUGARS LIMITED | BAGALKOT, KARNATAKA |
| 17. | TROPIKWOOD INDUSTRIES LTD, | FIJI ISLANDS |
| 18. | VIKAS SAHAKARI SAKHAR KARKHANA LTD | MAHARASHTRA |
| 19. | CHINIOT POWER LIMITED | PAKISTAN |
| 20. | LOKMANGAL SUGAR ETHANOL &CO- GENERATION LTD | SOLAPUR-MAHARASHTRA |
| 21. | NINAI DEVI SAKHAR KARKHANA LIMITED | MAHARASHTRA |
| 22. | VILAS SAHAKARI SAKHAR KARKHANA | MAHARASHTRA |
| 23. | FIJI SUGAR CORPORATION- RARAWAI | FIJI ISLANDS |

SUPPLY OF AIR LOCK ASH DISCHARGE VALVE (PARTIAL LIST)

| S.NO | CUSTOMER / PROJECT | LOCATION |
|------|--|----------------------------|
| 1. | PONDICHERRY CO-OPERATIVE SUGAR MILLS LTD | PONDICHERRY |
| 2. | SHREE CHAMUNDESWARI SUGARS LTD | K.M. DODDI, KARNATAKA |
| 3. | THE INDIA SUGARS AND REFINERIES LTD | HOSPET, KARNATAKA |
| 4. | SINGARAYA HILLS GREEN POWER GENCO (P) LTD. | HASNAPUR, ANDHRAPRADESH |
| 5. | FIVES CAIL - KCP LTD, A/C. KCP VIETNAM INDUSTRIES LTD, | VIETNAM |
| 6. | FIVES CAIL - KCP LTD, A/C. FINCHAA SUGAR, 2 X 200 TPH BOILER | ETHIOPIA |
| 7. | FIVES CAIL - KCP LTD, A/C. RAJSHREE SUGARS & CHEMICALS | GINGEE, TAMIL NADU |
| 8. | LOPEZ SUGAR CORPORATION LTD, 100 TPH BOILER | PHILIPPINES |
| 9. | SADHASIVA SUGARS LIMITED | BAGALKOT, KARNATAKA |
| 10. | TROPIKWOOD INDUSTRIES LTD | FIJI ISLANDS |
| 11. | FIVES CAIL - KCP LTD,A/C UNITED SPIRITS, 1 X 20 TPH BOILER | UP,INDIA |
| 12. | FIVES CAIL - KCP LTD, A/C. JAMKANDHI SUGARS LTD, 1 X 22 TPH SLOP FIRED BOILER | KARNATAKA, INDIA |

| S.NO | CUSTOMER / PROJECT | LOCATION |
|------|--|--------------------------|
| 13. | FIVES CAIL - KCP LTD, A/C. BALRAMPUR CHINI MILLS LTD, 1 X 45 SLOP FIRED BOILER | UTTAR PRADESH, INDIA |
| 14. | FIVES CAIL - KCP LTD, A/C. MANKAPUR CHINI MILLS LTD, 1 X 45 SLOP FIRED BOILER | UTTAR PRADESH, INDIA |
| 15. | UGAR SUGAR WORKS LIMITED | BELGAUM,KARNATAKA |
| 16. | TERRA ENERGY LIMITED | CHENNAI,INDIA |
| 17. | SARAVARAYA SUGARS LIMITED, | ANDHRA PRADESH,INDIA |
| 18. | NZOIA SUGAR COMPANY LTD | KENYA |
| 19. | SISTON PRIVATE LIMITED,A/C MULA SSK LIMITED | PUNE,MAHARASHTRA |
| 20. | NANDI SAHAKARI SAKKARE KARKHANE | KRISHNA NAGAR,,KARNATAKA |
| 21. | RAMKY ENVIROPOL ENGINEERS | NEW DELHI |
| 22. | FIJI SUGAR CORPORATION- RARAWAI | FIJI ISLANDS |

SUPPLY OF EQUIPMENT FOR CONTINUOUS BAGASSE FEEDING SYSTEM (PARTIAL LIST)

Cogeneration plants using high pressure modern Boilers and TG working in parallel with the grid require continuous bagasse feed for the boiler to maintain the steam pressure constant, irrespective of minor interruptions / stoppages in sugar mill. Avant-Garde have successfully developed a continuous bagasse feed system, which is working in the following sugar mills:

| S.NO | PROJECT | BOILER CAPACITY (TPH) | NO. OF FUEL FEEDERS |
|------|--|-----------------------|---------------------|
| 1. | RAUZAGAON CHINI MILLS LTD, UTTAR PRADESH | 1 X 35 | 03 |
| | | 1 X 70 | 05 |
| | | 1 X 75 | 06 |
| 2. | GMR TECHNOLOGIES AND INDUSTRIES LTD, | 2 X 35 | 06 |
| | | 2 X 40 | 06 |
| 3. | NAVA BHARAT VENTURES LTD., ANDHRA | 1 X 64 | 04 |
| 4. | AKBARPUR CHINI MILLS LTD., UTTAR PRADESH | 2 X 80 | 12 |
| 5. | KCP VIETNAM INDUSTRIES LTD, VIETNAM | 2 X 70 | 10 |
| 6. | GSR SUGARS LIMITED., ANDHRA PRADESH | 1 X 90 | 04 |
| 7. | DHARANI SUGARS & CHEMICALS LTD, TAMIL | 1 X 110 | 05 |
| 8. | DHANALAKSMI SRINIVASAN SUGARS PVT LTD, | 1 X 110 | 05 |
| 9. | KRISHNAVENI SUGARS LTD, ANDHRA PRADESH | 1 X 110 | 05 |
| 10. | VIJAYANAGAR SUGAR PVT LTD, KARNATAKA | 1 X 120 | 05 |
| 11. | HEMARUS TECHNOLOGIES LTD, MAHARASHTRA | 1 X 110 | 05 |

| S.NO | PROJECT | BOILER CAPACITY (TPH) | NO. OF FUEL FEEDERS |
|------|---|-----------------------|---------------------|
| 12. | GANGAKHED SUGAR & ENERGY PVT LTD, MAHARASHTRA | 1 X 150 | 06 |
| 13. | SHREE SOMESHWAR SSKL, MAHARASHTRA | 1 X 100 | 05 |
| 14. | SIRUGUPPA SUGARS LTD, KARNATAKA | 1 X 110 | 05 |
| 15. | FINCHAA SUGAR FACTORY, ETHIOPIA | 2 X 110 | 10 |
| 16. | VEESONS ENERGY SYSTEMS PVT LTD (FOR | 3 X 200 | 21 |
| 17. | JAMKHANDI SUGARS LIMITED, KARNATAKA | 1 X 90 | 5 |
| 18. | GODAVARI BIO REFINERIES LTD, KARNATAKA | 1 X 120 | 5 |
| 19. | SHREE DATTA SSK LTD, KARNATAKA | 1 X 180 | 7 |
| 20. | MADRAS SUGARS LTD, TAMIL NADU | 1 X 130 | 5 |
| 21. | CHINCHOLI SUGARS & BIO INDUSTRIES LTD, KARNATAKA | 1 X 120 | 5 |
| 22. | SUKHOTHAI BIO ENERGY CO. LTD, THAILAND | 3 X 150 | 15 |
| 23. | INGENIO MAGDALENA, S.A., GUATEMALA | 1 X 220 | 8 |
| 24. | INGENIO PALO GARDO, S.A., GUATEMALA | 1 X 165 | 6 |
| 25. | KAMPANGPETCH BIO-ENERGY COMPANY LIMITED- THAILAND | 3 X 150 | 15 |
| 26. | INGÉNIO LA UNION SA.-GUATEMALA | 1 X 165 | 6 |
| 27. | KAKIRA SUGAR WORKS -JINGA-UGANDA | 1 X 160 | 6 |
| 28. | KESAR ENTERPRISES LIMITED, UTTAR PRADESH | 1 X 190 | 7 |
| 29. | ADDAX BIO ENERGY, SWITZERLAND | 2 X 80 | 6 |
| 30. | EL ALCARAVAN BIO ENERGY LIMITED, | 1 X 180 | 6 |
| 31. | MUMIAS SUGAR LIMITED, KENYA | 1 X 22 | 2 |
| 32. | KPR SUGARS MILLS LIMITED, KARNATAKA | 1 X 135 | 5 |
| 33. | LIZITEX, S.A. GUATEMALA | 1 X 220 | 8 |
| 34. | INGENIO, CHAPARRASTIQUE S.A.,D.E C.V., EL | 1 X 220 | 8 |
| 35. | COMPANIA AGRICOLA INDUSTRIAL SANTA ANA, S.A GUATEMALA | 1 X 220 1 X 120 | 8 5 |
| 36. | INGENIO RISARALDA, S.A., COLOMBIA | 1 X 159 | 6 |
| 37. | COMPANIA AZUCARERA TRES VALLES, S.A. ,D.E C.V., HONDRUS | 1 X 60 | 3 |
| 38. | BIOMASS ENERGY S.A. GUATEMALA | 1 X 220 | 8 |
| 39. | EID PARRY (I) LTD, HALIYAL, KARNATAKA | 1 X 120 | 5 |
| 40. | SRI DATA SAKHAR KARKHANA (A UNIT OF DALMIA) MAHARASHTRA | 1 X 120 | 4 |

| S.NO | PROJECT | BOILER CAPACITY (TPH) | NO. OF FUEL FEEDERS |
|------|--|-----------------------|---------------------|
| 41. | FIVES CAIL - KCP LIMITED A/C. RAJLAXMI PETROCHEM PVT LTD MAHARASHTRA | 1 X 16 | 2 |
| 42. | FIVES CAIL - KCP LIMITED A/C. BALRAMPUR CHINI MILLS LTD- BANBNAN | 1 X 45 | 3 |
| 43. | FIVES CAIL - KCP LIMITED- A/C. MANKAPUR CHINI MILLS LIMITED - MANKAPUR | 1 X 45 | 3 |
| 44. | FIVES CAIL -KCP LIMITED- A/C. SHREE BASAWESHWARA SUGAR MILLS LIMITED | 1 X 130 | 5 |
| 45. | FIVES CAIL - KCP LIMITED- A/C. EID PARRY INDIA LTD, HALIYAL | 1 X 45 | 3 |
| 46. | GREENESOL POWER SYSTEMS LTD- A/C. CHINIOT POWER LIMITED-PAKISTAN | 2 X 155 | 10 |
| 47. | GREENESOL POWER SYSTEMS PVT LIMITED- A/C. CHANAR POWER LIMITED | 1 X 110 | 5 |
| 48. | ISGEC HEAVY ENGINEERING LIMITED- A/C. CAVITE BIO FUEL PRODUCTS INC., | 1 X 42 | 3 |
| 49. | ISGEC HEAVY ENGINEERING LIMITED-A/C. CASUR-NICARAGUA | 1 X 170 | 6 |
| 50. | ISGEC HEAVY ENGINEERING LIMITED- A/C. STAR TRADING | 1 X 37 | 3 |
| 51. | ISGEC HEAVY ENGINEERING LIMITED- A/C. PT SUKSES MANTAO SELAHTERA-INDONESIA | 1 X 60 | 3 |
| 52. | ISGEC HEAVY ENGINEERING LIMITED- A/C. INGENIO CO GLORE- MEXICO | 1 X 200 | 4 |
| 53. | ISGEC HEAVY ENGINEERING LIMITED- A/C. GENERADORA CHINCHOTEPEC,EL SALVADOR | 1 X 170 | 4 |
| 54. | ISGEC HEAVY ENGINEERING LIMITED- A/C. RAJARAMBABUPATIL SSK LTD.- NOIDA | 1 X 140 | 5 |
| 55. | ISGEC HEAVY ENGINEERING LIMITED- A/C. SRI CHAMUNDESWARI SUGAR-NOIDA | 1 X 100 | 4 |
| 56. | ISGEC HEAVY ENGINEERING LIMITED- A/C. MADHUCON SUGAR | 1 X 100 | 4 |
| 57. | FIVES CAIL - KCP LIMITED- A/C. GOBIND SUGAR MILLS LIMITED-LAKHIMPUR-KHERI | 1 X 35 | 1 |
| 58. | FIVES CAIL - KCP LIMITED- A/C. KM SUGAR MILLS LIMITED-FAIZABAD-UTTAR PRADESH | 1 X 16 | 2 |
| 59. | FIVES CAIL - KCP LIMITED- A/C. DHAMPUR SUGAR MILLS LIMITED-UTTAR PRADESH | 1 X 35 | 3 |
| 60. | FIVES CAIL - KCP LIMITED- A/C. DHAMPUR SUGAR MILLS | 1 X 75 | 4 |
| 61. | FIVES CAIL - KCP LIMITED- A/C. KPR SUGAR MILLS- KARNATAKA | 1 X 40 | 3 |

| S.NO | PROJECT | BOILER CAPACITY (TPH) | NO. OF FUEL FEEDERS |
|------|--|-----------------------|---------------------|
| 62. | FIVES CAIL - KCP LIMITED- A/C. GULARIA CHINI MILLS -AFBC BOILER-UTTAR PRADESH | 1 X 60 | 3 |
| 63. | ISGEC HEAVY ENGINEERING LIMITED - A/C. SEKSARIA BISWAN SUGAR FACTORY- LUCKNOW | 1 X 160 | 5 |
| 64. | NANDI SAHAKARI SAKKARE KARKHANE NIYAMIT-VIJAYAPUR | 1 X 105 | 6 |
| 65. | DALMIA CHINI MILL, UNIT-RAMGARH | 1 X 120 | 5 |
| 66. | ISGEC HEAVY ENGINEERING LIMITED A/C. TWENTY ONE SUGARS - MAHARASHTRA | 1 X 120 | 5 |
| 67. | UTTAM SUCROTECH INTERNATIONAL PRIVATE LTD, NOIDA A/C. RAMALA SAHKARI CHINI MILLS | 1 X 150 | 6 |
| 68. | FIVES CAIL - KCP LIMITED- A/C. JAMKHANDI SUGAR MILLS | 1 X 105 1 X 22 | 5 2 |
| 69. | FIVES CAIL - KCP LIMITED- A/C. GEM SUGAR MILLS LIMITED | 1 X 22 | 2 |
| 70. | FIVES CAIL - KCP LIMITED- A/C. TRIVENI ENGINEERING AND INDUSTRIES LIMITED- | 1 X 60 | 3 |
| 71. | FIVES CAIL - KCP LIMITED- A/C. SHREE RENUKA SUGARS LTD-HAVALGA | 1 X 75 | 4 |
| 72. | FIVES CAIL - KCP LIMITED- A/C. SHREE RENUKA SUGARS LTD- ATHANI | 1 X 75 | 4 |
| 73. | FIVES CAIL - KCP LIMITED- A/C. DALMIA CHINI MILLS UNIT : JAWAHARPUR | 1 X 40 | 3 |
| 74. | FIVES CAIL - KCP LIMITED- A/C. DCM SHRIRAM UNIT : DHAURALA SUGAR MILLS LTD-UTTAR PRADESH | 1 X 35 | 3 |
| 75. | FIVES CAIL - KCP LIMITED- A/C.NARMADA- MADHYA PRADESH | 1 X 25 | 2 |
| 76. | FIVES CAIL - KCP LIMITED-TRIVENI ENGINEERING AND INDUSTRIES LIMITED - A/C. SABITGARH-UTTAR PRADESH | 1 X 60 | 3 |
| 78. | FIVES CAIL - KCP LIMITED- A/C. SHREE DURGA KHANDSARI MILLS - MADHYA PRADESH | 1 X 16 | 2 |
| 79. | FIVES CAIL - KCP LIMITED- A/C. MAJHAULIA SUGAR INDUSTRIES | 1 X 24 | 2 |
| 80. | FIVES CAIL - KCP LIMITED - A/C. PARLE BISCUITS PVT LIMITED-UTTAR PRADESH | 1 X 22 | 2 |
| 81. | FIJI SUGAR CORPORATION - RARAWAI | 1 X 115 | 6 |
| 82. | K.M.SUGARS | 1 X 16 | 2 |

ELECTRICAL SYSTEM

| S.NO | PROJECT | CLIENT |
|------|--|---|
| 1. | Supply, Erection, Testing and Commissioning of 110 kV Switchyard with total plant Electrical consisting of 11 kV Switchboard, Distribution / Furnace Transformer, PCC & MCCs, LT Bus Duct, Plant Earthing and illumination system | Sanmar Ferrotech Limited, Tamil Nadu |
| 2. | Supply of Electrical Spares for 34.2 MW Co-Generation Plant | Mumias Sugar Company Limited, Kenya |
| 3. | VFD panel for ID fan & control panels 24 V DC power supply module Signal & Power Cable and Trays Junction Box Display Indicator | Nzoia Sugar Company Ltd |
| 4. | Switch yard BOQ Materials <ul style="list-style-type: none"> • ACSR Panther Conductor • Terminal Connector • Junction box for CT • Junction Box for PT • Cable Tray • 7/9 SWG Earthing Wire for Lightning Protection. • Bay Marshalling Box | Thermax Limited, Pune, A/c Isabella Biomass Energy |
| 5. | Switch yard BOQ Materials <ul style="list-style-type: none"> • ACSR Panther Conductor • Terminal Connector • Junction box for CT • Junction Box for PT • 7/9 SWG Earthing Wire for Lightning Protection. • Bay Marshalling Box | Thermax Limited, Pune, A/c Bicol Biomass Energy |
| 6. | Switch yard BOQ Materials ACSR Panther Conductor <ul style="list-style-type: none"> • Terminal Connector • Junction box for CT& PT • 7/9 SWG Earthing Wire for Lightning Protection. • Bay Marshalling Box | Thermax Limited,Pune, A/c Lamson Biomass Energy |

| S.NO | PROJECT | CLIENT |
|------|---|---|
| 7. | <ul style="list-style-type: none"> • Boiler MCC Panel • Softener plant MCC Panel • VFD Panel for Drum extractor • Cables & Cable Trays • Earthing Conductors • Light fittings • Local push button station • Terminal material | Fiji Sugar Corporation Rarawai Fiji Islands |
| 8. | Compact substation 1.5 MVA/750 KVA/500KVA. | Tropik wood products - Wairiki - Fiji islands |
| 9. | 11kV & 3.3 kV Switch board with DG Transformer | Tropik wood Industries Ltd - Fiji Islands |

INDUSTRIAL AUTOMATION (PARTIAL LIST)

| S.NO | PROJECT | CLIENT |
|------|--|--|
| 1. | Total Project Management services for Effluent Treatment plant at GMR Vasavi Power Station, Basin Bridge. | New Chem Weir, Tamil Nadu |
| 2. | Detailed Engineering services, Procurement Of DCS, Instrumentation, Installation Management and Commissioning of 2 X 100 T/HR Boilers. | KCP Sugar and Industries Corpn. Ltd, Vuyyuru, Andhra Pradesh |
| 3. | Detailed Engineering for Sugar Plant Instrumentation for ABB automation. | ABB Automation, Tamil Nadu |
| 4. | Detailed Engineering of Instrumentation for various Co-generation plants with DCS: | Bannari Amman Sugars Ltd EID Parry (I) Ltd Thiru Arooran Sugars Ltd Jyothi Bio Energy Ltd Sagar Sugars Ltd Arunachalam Sugars Ltd Shree Prabhulingeshwar SWL |
| 5. | Project Management & Engineering Assistance for Slurry Preparation' for Catalytic Converter Plant. | Engelhard Environmental Systems (I) Ltd, Tamil Nadu |
| 6. | Design, Supply, Erection & Commissioning of Instrument Control Panel with Controllers. | Protchem Industries (India) Ltd |
| 7. | Supply, Installation and Commissioning of PLC based systems for Automation of Process Equipment | Priya Pickles, Andhra Pradesh |
| 8. | Supply of Temperature Scanners with PCIM software for SCADA application | Rane Brake Linings, Tamil Nadu |
| 9. | Supply of Field Instruments | SV Sugar Mills Limited, TamilNadu |
| 10. | Annual Maintenance of PLC/Instrumentation | Akash Aromatics Bush Boake Allen (I) Ltd Cookson India Ltd |

| S.NO | PROJECT | CLIENT |
|------|--|--|
| 11. | Software Development | Honeywell Automation India Ltd A/c. Siruguppa Sugars A/c. Lokmangal Sugars A/c. Gallent Ispat |
| 12. | Mild steel intake cone assembly for FD fan and mild steel segmental orifice assembly for SA fan | Lopez Sugar Corporation Ltd, Philippines |
| 13. | Temperature sensors and temperature transmitters | Lopez Sugar Corporation Ltd, Philippines |
| 14. | Supply of pressure transmitters with hardware materials for SA fan & FD fan in connection with 100 TPH Yoshimine Boiler | Lopez Sugar Corporation Ltd, Philippines |
| 15. | Supply of Instrumentation Spares | Mumias Sugar Company Ltd, Kenya |
| 16. | 1. Sensor Probe Speed Switch 2. Vibration Sensor | Mumias Sugar Company Ltd, Kenya |
| 17. | Supply of DCS Spares for WTP | Mumias Sugar Company Ltd, Kenya |
| 18. | Supply of Ash Hopper level probes | Mumias Sugar Company Ltd, Kenya |
| 19. | Supply, Erection and Commissioning of control and Instrumentation for 3 MW Solar Power Plant | Atria Power Corporation Ltd, Karnataka |
| 20. | Preparation of Control Scheme and Engineering for WTP | Praj Industries Limited, Dubai |
| 21. | Design, Engineering, Supply and commissioning of Process Simulator | Yokogawa India Limited, Karnataka |
| 22. | Supply of motorized & manual CBD valves, Online conductivity sensor & analyzer, Draft & temperature transmitter, Papalen recorder, Instrument control panel, Digital jumbo indicators, Pressure and temperature gauges, Thermo wells, Vibration transmitters | Nzoia Sugar Company Ltd, Kenya |
| 23. | Supply of erection hardware for instrument | The Metal Powder Company Limited |

| S.NO | PROJECT | CLIENT |
|------|--|---------------------------|
| 24. | <ul style="list-style-type: none"> • Instruments fir ETP Ultrasonic type level transmitter • Tubular type level indicator • Diaphragm seal type pressure gauges with accessories • Bourdon type pressure gauges • PH analyzer with accessories • Differential pressure transmitter with accessories • DO analyzers with accessories • Turbidity Analyzers with accessories | Voltas Limited, Bangalore |

SOLAR PV ROOFTOP POWER GENERATION SYSTEM

| S. NO | DESCRIPTION | LOCATION |
|-------|--|---|
| 1. | Design, Supply, Installation, Testing and Commissioning of 9.72 kWp Grid Connected Solar PV Rooftop Power Generation System. | Veelsons Energy Systems Pvt Ltd., Trichy |
| 2. | Design, Supply, Installation, Testing and Commissioning of 2 X 15.12 kwp Grid Connected Solar PV Rooftop Power Generation System. | Welcon Equipments Pvt Ltd., Gummidipoondi |
| 3. | Design, Supply, Installation, Testing and Commissioning of 15.12 kwp Grid Connected Solar PV Rooftop Power Generation System. | Faurecia Emissions Control Technologies, Singaperumal Kovil |
| 4. | Design, Supply, Installation, Testing and Commissioning of 30.61 kWp Grid Connected Solar PV Rooftop Power Generation system at our home office. | Porur, Chennai |
| 5. | Design, Supply, Installation, Testing and Commissioning of 11 kWp Grid Connected Solar PV Rooftop Power Generation System. | Alapakkam, Chennai |
| 6. | Design, Supply, Installation, Testing and Commissioning of 1 kWp Grid Connected Solar PV Rooftop Power Generation System. | Virugambakkam, Chennai |
| 7. | Design, Supply, Installation, Testing and Commissioning of 7.8 kWp Grid Connected Solar PV Rooftop Power Generation System. | Velachery, Chennai |
| 8. | Design, Supply, Installation, Testing and commissioning of 1 kWp Grid Connected Solar PV Rooftop Power Generation System. | Puzhal, Chennai |

| S. NO | DESCRIPTION | LOCATION |
|-------|---|-----------------------------------|
| 9. | Design, Supply, Installation, Testing and Commissioning of 9.9 kWp Grid Connected Solar PV Rooftop Power Generation System. | Formo Plastic Kakkalur Chennai |

SITE PROJECT MANAGEMENT CONSULTANCY (PMC) SERVICES FOR SOLAR PV PROJECTS

| S.NO | DESCRIPTION | CLIENT |
|------|---|---|
| 1 | PMC Services for 15 MW Solar PV Power Plant in Dindigul District, Tamil Nadu | Vedhaah Power Private Limited, Pudukottai |
| 2 | PMC Services for 10 MW Solar PV Power Plant in Dindigul District, Tamil Nadu | Vedhaah Green Power Private Limited, Dindigul |
| 3 | PMC Services for 15 MW Solar PV Power Plant in Pudukkottai, Tamil Nadu | Edison Energy India Pvt Limited., Chennai |
| 4 | PMC Services for 2 MW Solar PV Power Plant in Pudukkottai, Tamil Nadu | Edison Energy India Pvt Limited., Chennai |
| 5 | PMC Services for 1.2MW Solar PV Plant in Kanadukathan, Tamil Nadu | Visalam Energy Pvt. Ltd, Chennai |
| 6 | PMC Services for 5 MW _P Solar PV Power Plant in Aruppukottai, Tamil Nadu | Shree Saasthaa Wet Grinders, Coimbatore |
| 7 | PMC Services of 700 kW _P Rooftop Solar PV Power Plant in Madurai, Tamil Nadu | Oriano Clean Energy Pvt. Ltd, Mumbai |
| 8 | PMC Services for 20 MW _P Solar PV Power Plant with 66 kV Switchyard in Pavagada, Karnataka | Oriano Clean Energy Pvt. Ltd, Mumbai |
| 9 | PMC Services for the 18 MW Solar PV Plant in District Sahiwal, Punjab, Pakistan | Harappa Solar (Private) Limited, Pakistan |
| 10 | PMC Services for 2 MW _P Rooftop Solar PV Power Plant in Chiniot, Pakistan | Ramzan Energy Limited, Pakistan |
| 11 | PMC Services for 10 MW _P Solar PV Plant in Welikanda, Sri Lanka | Solar One Ceylon (Pvt) Ltd, Sri Lanka |

GROUP COMPANY

Avant-Garde Engineers and Consultants (P) Limited, Chennai.

Avant-Garde Engineers & Consultants FZC, Sharjah, U.A.E

AFFILIATIONS & MEMBERSHIP

The American Society of Mechanical Engineers (**ASME**)

MNRE - Channel Partner

TEDA Enlisted System Integrator

Indian Chamber of Commerce and Industry (**ICCI**)

Madras Chamber of Commerce and Industry (**MCCI**)

Engineering Export Promotion Council (**EEPC**)

Federation of Indian Export Organisations (**FIEO**)