



Providing
Complete Power Solutions

CORPORATE OVERVIEW

Pavo power is the result of a constellation of technocrats, providing practical & workable solution for all thermal, hydro, solar and other renewable energy Power Projects. With a Combined experience of the team of experts, we can execute & provide complete solutions to Power Projects.

Pavo Power engineers have executed projects in various locations in India, Asia, ASEAN, SAARC, Middle-East, Europe and African countries. With a diverse customer and Vendor base both in India & abroad, we have the requisite exposure to different standards, policies and process required by our clientele.

Pavo power has signed a MOU with M/s G.B. Engineering Enterprises Private Limited, Trichy who manufactures high pressure Boilers to the tune of 660MW.

Pavo Power is an experienced engineering firm, in thermal, Solar, Hydro and oil & gas related projects.

OUR BUSINESS SEGMENTS

- Green field Power Plants(Thermal, Solar, Hydro & Biomass)
- Oil & Gas
- Steel Plants
- Chemical & Fertilizer Plants
- Sugar Plants
- Relocation, Refurbishment & Due Diligence
- Project Management Services
- Operation and Maintenance

OUR CAPABILITIES

Project management services

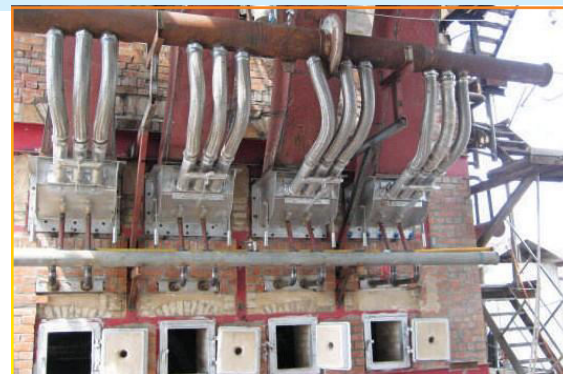
- Concept of Commissioning
- Relocation of Power Plants and retrofitting
- Residual Life Analysis and Life Extension Studies
- Performance Improvements and Capacity enhancement studies
- Inspection services
- Due diligence study of old Power Plants
- Feasibility report
- Detailed project report
- Design basis report

Design Engineering Services

- Design of Boiler, Pressure Vessel, Waste Heat Recovery System
- Solid/Liquid Fuel Handling & Firing Systems
- Design of Piping, Stress Analysis and Supports
- Design of Instrumentation System
- Design of Electrical Systems
- Balance of Plant
- Re- Engineering & Retrofitting Services,
- Pre-bid Engineering & Procurement Engineering
- Inter-linking of various systems.

Energy management System

- Burner management and Combustion System Improvements
- Automation to achieve optimum efficiency
- Electrical system – Energy Management study



PNEUMATIC SPREADERS FOR BOILER 9.5MW
BIOMASS BASED POWER PLANT
AT KRABI, THAILAND



ECONIMIZER ASSEMBLY DISMANTLING UNDER
PROGRESS - 150 TPH OIL & GAS FIRED
BOILER, BERLIN



STEAM DRUM ERECTION UNDER PROGRESS
150TPH OIL AND GAS FIRED BOILER
IN BERLIN

Operation & Maintenance Service

- Preparation of Operation and Maintenance manuals
- Talent acquisition for the O&M services
- Training
- Preparation of job description (JD)
- Preparation of equipment related log sheets
- Preparation of Standard Operation Procedure (SOP)
- Standard Maintenance Procedure (SMP)
- Technical services for identifying progress, Bottlenecks and quantifying limiting factors.
- Management information system.

Manpower support services

- Startup & Commissioning services
- O&M

Software skills

Thermal design of Boiler & heat exchangers, Piping stress analysis & 3D modeling CAD works, Short circuit calculations, AC and DC load to study, voltage drop calculations etc using ETAP and other software.

PROJECTS & SERVICES EXECUTED

- Engineering, Procurement & construction of used * 30 MW Thermal Power Plant, from Berlin, Germany to India for Coromandel Sugars.
- EPC of 15 MW Coal fired Power Plant, from France to Pakistan and modification of the boiler to fire agro fuels such as bagasse, wood chips etc. Up-gradation of steam generation capacity 100 TPH by adding suitable heating surface area.
- Operation & Maintenance [O&M] services contract for a Biomass based 1* 9.5 MW Power plant in Thailand for 2 years. Performance improvement and refurbishment of a 60 TPH Empty Fruit Branch [EFB] fired boiler in Thailand.
- Pre – Bid engineering services for refurbishment of Oil and Gas fired boilers for Doha-East and Shoiba South Power Plants in Kuwait
- Inspection and due diligence of 1* 100 MW, Coal fired Thermal power plant located in Germany for Clients in India.
- Supervision of Erection and Commissioning of 11 MW Steam Turbine relocated from Denmark to Pakistan.



30 MW TG - DISMANTLING
UNDER PROGRESS IN BERLIN



ERECTION OF 30 MW BAGASSE BASED POWER
PLANT IN KARNATAKA, INDIA



DISMANTLING WORK UNDER PROGRESS 1*15
MW POWER PLANT BOILER IN SWEDEN



POWER PLANT ENGINEERING
TEAM AT BERLIN

- Deputation of engineers for supervision of rotary equipment, Erection, & Commissioning for Essar Projects (India) Ltd, at MATIX Fertilizer Ltd, Panagarh, West Bengal.
- Design of +12 meter extension to the LSO TYPE TOWER for 230KV Transmission Line work including design of Foundation for TANTRANSCO
- Engineering services for Fuel handling system of new pellet, plant 2 for BMM Ispat Limited, Hospet, Karnataka.
- Commissioning of 70 MW thermal power project at BMM ISPAT Ltd, Hospet, Karnataka
- Pre bid Engineering Services for 160 MW Combined Cycle Power Plant Stage IV of RRVUNL Rajasthan on behalf of SPML, Delhi.
- Pre bid engineering services for complete 2*23MW, combined cycle power project for NEEPCO, Agartala on behalf of L&T ECC Chennai.
- Bid offer review for a 300MW TPP at Vizag, for Shriram EPC Limited, Kolkata
- Pre bid Engineering Services for 2* 67.5 MW captive TPP at Cuttack, for Bhubaneswar Power Private Limited on behalf on L&T, Chennai.
- Study of the boiler operation and suggest improvements for 2 numbers of 46 TPH Thermodyne make bagasse fired boiler for Coromandel Sugars Limited Makkavalli, KRPET, Mysore.
- Study and recommendation for remedy towards frequent failure of economizer coil for a 120 TPH boiler, for EID Parry at Pugalur, Tamil Nadu.



220 KV SWITCHYARD UNDER ERECTION FOR 160MW COMBINED CYCLE POWER PLANT PROJECT AT RAMGARH IN RAJASTHAN



CABLE TRENCH-160 MW COMBINED CYCLE POWER PLANT PROJECT AT RAMGARH IN RAJASTHAN



SURVEY OF 1*15 MW POWER PLANT-FRANCE



PERFORMANCE IMPROVEMENT STUDY
COROMANDEL SUGAR INDIA

- Study & recommendation for rectification of Reheater temperature control valve passing & auxiliary steam heater spray temperature control valve passing for STCMS [250MW] Thermal power project at Neyveli, Tamil Nadu.

- Study on Improvements of Heat Rate in SIEMENS 27MW Steam turbo generator for Dalmia cements Bharat limited, Ariyalur, TamilNadu.

- Inspection, recommendations & Revamping of 2*13.6 TPH And 1*25TPH IJT make Bagasse fired boilers for EID parry, Ariyur, Pondicherry

- Pre bid engineering services for complete 2*23MW, combined cycle power project for NEEPCO, Agartala on behalf of L&TECC, Chennai.

- Identification & analysis of a suitable 300MW Gas fired power project for Missan, Iraq on behalf of SVL engineering services private limited, Chennai.

- Combined Cycle Power plants- using Naptha, LDO and LNG- 320 MW-655 MW utility power plants

- Fuel conversion from any Hydro-carbon fuel to Biomass firing- Converted a 150 TPH, 105 Bar, 525 Deg C Oil & Natural Gas fired boiler to fire Biomass (Bagasse and other biomass available)-Running succefully.

- Supply of 10 No's drum feeders and SS pneumatic distributors for VEESONS energy systems private limited, for their 50 TPH and 200 TPH Boiler supplied to Thailand.

- Supply of pneumatic distributor, hose and air nozzle for Auomira Bioenergy, Pudukottai, India Limited for a 7.5 MW biomass power plant.



DUE DILIGENCE STUDY- 2* 125 MW SUB CRITICAL PRESSURE POWER PLANT IN GERMANY



DUE DILIGENCE STUDY- 2* 125 MW SUB CRITICAL PRESSURE POWER PLANT IN GERMANY



GENERATOR TRANSFORMER 9.5MW BIO MASS BASED POWER PLANT AT KRABI THAILAND



DUE DILIGENCE OF 2*320MW POWER PLANT EQUIPMENT AT KILROT POWER STATION NORTHERN IRELAND

Solar Energy is a genuinely exciting energy technology of the future. It is Flexible can be deployed in a wide range of applications and locations.

Pavo Power recognize this vast potential and scope and is focused on bringing the best technologies available in the world for its varied projects. Our solution is specifically tailored to Fit every situation perfectly

Pavo Power partnered with ONP the solar company formed by an award winning & visionary technocrats with more than a two-decade of experience in Renewable energy and IT. Our team earned respective specialties of various renewable energy solutions across the years over multiple projects. Our products are designed, manufactured & tested in par with international standards, to deliver the quality products to our customers. We constantly innovate and upgrade our product range to create more efficient products. This will help our customers to reduce expenses on grid power and avoid grid power dependency. As a company we consult, design, build, implement and maintain various renewable energy and energy saving products.



Our team is in constant drive to build and optimize the products. We upgrade ourselves in innovating new products of renewable energy and in the process "Save Energy". We at ONP are aware of the increasing cost of power. We are committed to build and deliver products and solutions to save and reduce the use of grid power. This will help to reduce expenses on grid power. To achieve the goal we have products with various combinations to produce power with various natural resources. We managed to build products with various capacities to suit our customer's requirements. We can also have custom engineered products to meet our client's requirements.

Besides our range of products, our expertise does not end with sale of product but it continuous with after sales and service, demonstration and training and annual maintenance contract. Every product is built and tested in line with international standards.



GreenBox is a innovative "all-in-one" product for Solar power generation, this consist of all parts required to go solar electrification in simple easy steps. The system comprises of solar panel (PV module with solar cells), controller box (charge controller + inverter), battery, solar panel stand, wires/cables and manuals. Solar Panels to be installed in the open or roof/ terrace exposed to sunlight, controller box and battery to be placed inside a protected place in home or office. The solar panels require periodic dusting for effective performance.

Ongoing Project : 10 MW Solar Power Plant in Sanjose City Philippines

DIRECTORS

Technocrats with combined experience of over 70 man years in Power Plants, Refineries, Power Plant Logistics Component manufacturing, Project Management, Due Diligence studies Trouble Shooting and Associated with Standalone Wind, Solar hybrid systems.

G. Mohana Prakasa - Director

Qualification : B.E [Mechanical] with B.O.E [Boiler Operation Engineer]

Over 38 years of experience in Power Plant domain. Worked in organizations such as BHEL, MHI- Japan, IDEA, Avant - Grade Engineering Pvt. Ltd., Aquatherm Engg Consultants, SM Chem Power Engg Pvt. Ltd. Responsible for handling various Power Projects Start Up Commissioning and Performance Testing of Industrial Steam Generators, Captive Power Plant in Sugar, Pulp, Paper, Fertilizer Steel, and Thermal Power Plant up to 660 MW. Passion towards relocation, refurbishment of boilers with improved performance. Evaluated and established improved fuel firing systems for various fuels such as HSD, FO, Natural Gas & Bio Mass. Due diligence services offered up to 600MW.



Memberships:

- a. Lifemember in Indian Society of Welding (IWS),
- b. Indian society for NDT [ISNT] and
- c. National Institute of Quality and Reliability [NIQR].

R.R.Ravi – Director (Business Development)

Qualification: B.E. [Electrical & Electronics Engineering]

Experience: 37 years in Power and Textile Sector. Started his career in the year 1980 with Govt. of Tamil Nadu, India as Assistant Engineer in Public Works Department.

Later joined Cethar Group, Trichy (Engineering and Power sector) as a Senior Engineer. In 10 years period, grew up significantly to uplift the company's turnover to USD 10 Million.

Travelled extensively to countries like USA, Europe, South East Asia and Middle East for business development and acquired great deal of exposure in International Marketing.



Involved in the design and implementation of more than 52 standalone solar photovoltaic power plant of varying capacities since 2010. Developed standalone wind-solar hybrid systems, which were tested and approved by Ministry of New & Renewable Energy, India

International

**Alnoor Sugar Mills Limited,
Pakistan**

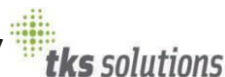


Shahmurad Sugars - Pakistan

Hoima Sugars, Uganda



TKS Solution GMBH, Germany



**Nyaman Makmur Sdn,Bhd
Malaysia**



West Kenya Sugar, Kenya



**Pinnacle Global Trading
LLC., Dubai**



Woodsol, Malaysia



**Saraff Energies Limited,
Thailand**



V-Mars, Philippines



**Serin Corporation
Philippines**



Domestic

Auromira Bio Energy Pudhukottai Ltd



NSL Sugars Limited



**Blackstone Group
Technologies Pvt Ltd**



Prudential Sugars Corporation Ltd



BMM Ispat Limited



**Rajshree sugars & Chemical
Limited**



Coromandel Sugars Limited



Shriram EPC Limited



EID Parry (India) Limited



SPML Infra Limited



ESSAR



ST-CMS Electric Company



Ganapati Sugars



S.V.Sugars Limited



Hi-Tech Engineering



Tamilnadu Sugar corporation Ltd



**Ind Bharath Thermal
Power Limited**



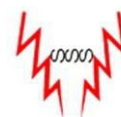
Tandex Engineering & Services



L&T ECC



**Triple S Electricals & Energy
Services**



**Matix Fertilizers & Chemicals
Limited**



Veelsons energy Limited



Noble Steels

