



# AQUATHERM ENGINEERING CONSULTANTS (INDIA) PVT. LTD.



**QUALITY SERVICES TO POWER, PROCESS AND ENERGY**

**Aquatherm Engineering Consultants (AEC)** with a two decades old organization has emerged as a leading engineering consultancy company in the field of Power, Process and Energy Industries. AEC offers Basic Engineering, Detailed engineering, Project Management, Technology and Procurement services. AEC is having a dedicated and well experienced Engineers / Technical staff supported by Senior Consultants having more than 4 decades of engineering expertise in various fields of activities. AEC is an ISO certified company for the last 7 years.



## Operating Centre

- AEC's Engineering centre is located at Chennai and well equipped with National / International codes & standards and Engineering software / Hardware.
- AEC is having excellent communication facilities to meet the demanding project requirements with 30% of their operations being done in overseas serving countries like Malaysia, Indonesia, Kuwait, Iran, Iraq, Saudi Arabia, Netherlands, Kazakhstan, Cambodia and Thailand.
- AEC is having Basic / Detailed Engineering capabilities in various disciplines of Mechanical, Electrical, Piping, Control & Instrumentation, Civil & Process.
- AEC is also undertaking plant relocation engineering activities

## SECTORS OF OPERATIONS INCLUDE

### Power:

- Biomass
- Fossil Fuel Fired
- Gas
- Waste Heat Recovery
- Hydel Power
- Wind Power
- Solar Power

### Process:

- Bio-Diesel
- Ethanol
- Carbon Black

### Performance Improvements:

- Boiler
- HRSG
- Firing Systems

### Others:

- Piping Engineering
- Plant Relocations
- Procurement Services
- Project / Construction Management Support





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**QUALITY SERVICES TO POWER, PROCESS AND ENERGY**

## A. MAJOR OVERSEAS PROJECTS HANDLED

- Ranhill Powertron Sdn Bhd, Malaysia – Teluk Salut 190 MW Combined Cycle Conversion project.
- Wartsila Power Contracting Co. Ltd – Engineering for relocation of 3X16 ZAS 40/40 Sulzer Engines.
- SMEC Sdn Bhd, Malaysia – Detailed Engineering for 250,000 TPY Bio-diesel plant
- Integral Services Co. W.L.L., Kuwait – 1X30 TPH VP-60 Steam Generator
- SADID Jahan Sanat Company, (PVT International - Saveh) - Detailed Engineering Assistance for Carbon Black Expansion



- International Free company, Jordan – Detailed Engineering for Daura - 2x25 MW Gas Turbine Power Plant
- International Free company, Jordan – Detailed Engineering for Basra - 120MW Gas Turbine Power Plant
- Olam International Ltd., Singapore – Review Engineering for 4MW Cogen Power Plant
- Nias Consortium (PT. Indonesia Riau Sri Avantika Contractors) – Engineering Consultancy Services 3 x 7MW Thermal power plant at NIAS Island, Indonesia

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## B. MAJOR DOMESTIC PROJECTS HANDLED

### I. BIOMASS POWER PLANT

- ➔ Raghu Rama Renewable Energy Ltd, Paramakudi – 18 MW Biomass Based Power Plant
- ➔ ETA Powergencom Ltd – 10 MW Biomass Based Power Plant
- ➔ Shalivahana Biopower Ltd., Maharashtra – 10MW Biomass Based Power Plant
- ➔ Sri Guruprabha Power Ltd., - 10MW Biomass Power Plant
- ➔ Ind Barath Energies Ltd., Tamil Nadu – 20MW Biomass Power Plant





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## II. COGENERATION POWER PLANT



- S.V. Sugars, Palayaseevaram - 27.3 MW Cogeneration Plant.
- Empee Sugar & Distilleries Ltd., Tirunelveli – 2x25 MW Cogeneration Plant
- Shriram EPC Ltd., Maharashtra – 20MW Cogeneration Plant
- GSR Sugars Limited, - 16.5MW Cogeneration Plant

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## III. GAS ENGINE POWER PLANT

- Arkay Energy Ltd., Rameshwaram - 80MW Gas based Power Plant
- Coromandel Electric Co. Ltd - 27MW Gas based Power Plant
- OPG Power Ltd – 18 MW Gas based Power Plant



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## IV. GAS TURBINE POWER PLANT



- Ranhill Powertron Sdn Bhd, Malaysia - Teluk Salut 190 MW Combined Cycle Conversion Project.
- Arkay Energy Ltd, Ramanathapuram - 59MW (ISO) Gas based Power Plant

- International Free Company, Jordan – 2x25MW Daura Project, Iraq
- Lohrmann International Ltd., Germany - 2 x 25MW Gas Turbine Based Power Plant, Samawa





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## V. DIESEL ENGINE POWER PLANT

- Suryachakra Power Corporation Ltd, Hyderabad - 20 MW DG Power Plant
- Matrix Solutions, Bangalore – 7.8 MW HFO Gensets & 5 nos. of 5.4MW HFO Gensets
- Wartsila Saudi Arabia Ltd., Saudi Arabia - 11x10 MW DG Power Plants
- National Steel Company, Saudi Arabia - 3 x 10MW DG Based Power Plant
- Alsafwa Cement Company - 5 x 9.4MW DG Based Power Plant



## VI. BIO – DIESEL PLANT



- SMEC Malaysia Sdn. Bhd., Malaysia - 150,000 TPY Bio-Diesel Plant – Basic Engineering for BOP
- AGR Petro Surya, Malaysia - 200,000 TPY Bio-Diesel Plant – Basic and Detailed Engineering for BOP
- Jupiter Bio-Diesel Plant, Malaysia - 250,000 TPY Bio-Diesel Plant – Basic and Detailed Engineering for BOP

## VII. CARBON BLACK PROJECT

- SADID Jahan Sanat Company, Iran – Carbon Black Project Expansion
- LEO Carbon Black Project, West Bengal
- Scorpio Carbon Black Project, West Bengal





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## VIII. CAPTIVE POWER PLANT



- TCP Ltd, Chennai - 63 MW Coal Fired Power Plant, Chennai
- OPG Powergeneration Pvt. Ltd. – 3 x 80 MW and 1 x 180MW Coal based Power Plant, Gummidipoondi
- Ind Barath Powergencom Ltd. – 3x63 MW Coal based Power Plant, Tuticorin
- Ind Barath Thermal Power Plant - 3 x 150MW Coal based power plant, Tuticorin.
- OPG Energy Gujarat Ltd., 2 x 150MW Coal Based Power Plant, Bhadreshwar

- Suryadev Alloys & Power Pvt Ltd., at 2 x 80MW coal based power plant, Gummidipoondi
- PT Tria Talang Emas (In association with PEC Konsult Sdn Bhd - 2 x 60MW Coal Fired Power Project at Batam
- Krishna Godavari Power Utilities Ltd., - 1 x 60MW Coal Based power, Kodad
- Allied Energy System Pvt Ltd., for 3 x 150TPH Boiler, Auxiliaries & Turbo Blower System at Bhilai Steel Plant.



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## IX. BOILER & HRSG PROJECTS

- Foster Wheeler India Pvt. Ltd. - 330 MW PPN Cogeneration Project
- Integral Services Co. W.L.L., Kuwait - 1X30 TPH VP-60 Steam Generator at Shuwaikh - Water Desalination Plant



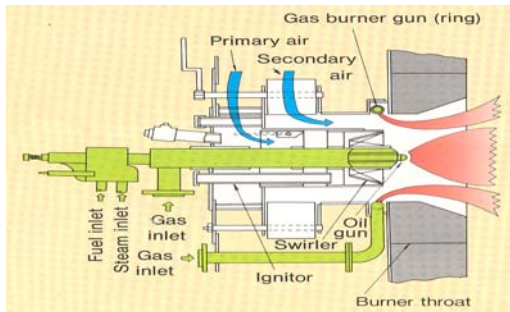


# AQUATHERM ENGINEERING CONSULTANTS (INDIA) PVT. LTD.



QUALITY SERVICES TO POWER, PROCESS AND ENERGY

## X. FIRING SYSTEM



- Magra Construction, Vijayawada - Introduction of Oil Firing system in place of coal firing in 8 TPH high pressure boilers at BHEL, Hyderabad
- Thirumalai Chemicals Ltd. - Engineering service for conversion of burner Oil Fired Boiler

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## XI. PIPING ENGINEERING PROJECTS

- Boiler Integral Piping for Thermax, Thermodyne
- Power Plant Piping for Steel Plants, Cement Plants and Sugar Plants
- Process Piping in Biodiesel – SMEC, Malaysia
- DG Plant Piping for Wartsila, Sulzer and Man Engines
- Petrochemical Piping for LEO Carbon and DSP, Iran



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## XII. SOLAR POWER PLANT

- South Asian Agro Pvt Ltd., Hyderabad - 5MW Solar Thermal Power Plant
- Ind Solar Ltd., - 2MW Solar power plant, Bihar
- Abhijeet Group, 50MW Solar Thermal Power Plant, Rajasthan





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## XIII. HYDRO POWER PLANT

- Carborundam Universal Ltd.,Pvt Ltd., - 2 x 6 MW Mini Hydel Power Plant at Maniyar
- Perchiparai Hydro Power Ltd., - 2 x 500 kW Pechiparai Mini Hydel Power Plant
- Nampha, Laos - 2 x 65MW Hydel Plant
- Ambuthirtha Power Plant Ltd., - 2 x 11MW Hydel Plant

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## C. SALIENT PROJECTS HANDLED

- Engineering Consultancy Services for 2x35 MW Captive Power Plant – Shree Virangana Steels Pvt. Ltd., Nagpur
- Basic Engineering for 150,000 TPY Bio-diesel Plant at Malaysia, SPC – Bio-Diesel.
- Detailed Engineering services for 50MW Gas Engine based Power Plant – RVK Energy (Rajahmundry) Pvt. Ltd., Andhra Pradesh
- Engineering Consultancy Services for 5000 TCD Sugar Plant – West Kenya Sugar Company Ltd.,
- Stress Analysis for 15MW CPP – GEA Cooling Tower Technologies (India) Pvt. Ltd.
- 3X7MW Hydro Electric Power Plant – Indsil Electros melt Ltd.
- Introduction of Oil Firing system in place of coal firing in 8 TPH high pressure boilers at BHEL, Hyderabad – Magra Construction, Vijayawada.
- Engineering Consultancy Services for 2x45MW Captive Power Plant – SBQ Steels Ltd., Gudur
- Engineering Consultancy Services for 3 x 7MW Thermal power plant at NIAS Island, Indonesia Nias Consortium (PT. Indonesia Riau Sri Avantika Contractors)
- Detailed Engineering Services for 350MW supercritical coal fired thermal power plant – VSF Projects Ltd.,
- Engineering Services for Marine works for 1 x 300MW Coal based power plant of Kaizen Power Ltd., (KPL) – Abhijeet Projects Ltd.,
- Owners Engineering Services for 2 x 35MW Coal Based Power plant – Tulyan NEC Ltd., Chennai
- Engineering Consultancy Services for 60MW Coal Based Power plant – ARS Steels & Power Ltd., Gummidipoondi
- Owners Engineering Services for 1 x 60MW Coal Based power – Krishna Godavari Power Utilities Ltd., Kodad
- Detailed Engineering Services for 2 x 80MW coal based power plant – Suryadev Alloys & Power Pvt Ltd., at Gummidipoondi
- Engineering Consultancy Services for 60MW coal based power plant – ARS Steels & Power Ltd., Gummidipoondi
- Engineering Consultancy Services for 2 x 25MW (Nett) Coal Based Power Plant, Kendari, Indonesia RPP Infra Projects Ltd.,



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**QUALITY SERVICES TO POWER, PROCESS AND ENERGY**

- Detailed Engineering Services for Raghu Rama Renewable Energy Ltd, Paramakudi – 18MW Biomass based Power Plant
- Detailed Engineering services for Shalivahana Projects Ltd, Maharashtra – 10MW Biomass based Power Plant
- Detailed Engineering Services for Teluk Salut 190 MW Combined Cycle Conversion Project - Ranhill Engineers & Constructors Sdn Bhd, Malaysia
- Detailed Engineering Services for 250,000 TPY Biodiesel at Indonesia, SMEC – Ciliandra Perkasa
- Detailed Engineering Services for Sugar Corporation of Uganda Ltd, SCOUL
- Engineering Consultancy Services for 3 x 80 MW Coal based Power Plant – OPG Powergeneration Pvt. Ltd at Gummidipoondi, Tamilnadu
- Engineering Consultancy Services for 180MW Coal Based power plant – OPG Energy Private Ltd., Gummidipoondi
- Engineering Consultancy Services for 2 x 150MW Coal Based Power Plant – OPG Energy Gujarat Ltd., Bhadreshwar
- Detailed Engineering Services for 3x63 MW Coal Based Thermal Power Plant – Ind Barath Powergencom Ltd., Tuticorin, Tamil Nadu
- Detailed Engineering Services for 3 x 150MW Coal based power plant – Ind Barath Thermal Power Plant., Tuticorin.
- Detailed Engineering Services for 2x25 MW Gas Turbine Power Plant – International Free company, Jordan
- Detailed Engineering Services for 120MW Basra Steel Power Plant – International Free Company, Jordan
- Review Engineering Services for 300 MW Coal Based Power Plant – Kaizen Power Ltd., Vizag
- Engineering services for relocation of 11X10 MW HFO Gensets in Iraq – Matrix Solutions – PP1 & PP2, Bangalore.
- Detailed Tender Specification & Review of EPC for 4 x 25MW Coal Fired Power Project – PT Tria Talang Emas (PEC Konsult Sdn Bhd

## CORPORATE CLIENTS



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