



THE POWER WITHIN

ARANI POWER SYSTEMS LIMITED

An ISO 9001:2008 Certified Company

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Arani energizing the society



K. CH. Peraiah
Promoter & Managing Director

The present power scenario across the globe demands rapid transformation of the existing organisations to meet the expectations and requirements of the power demand.

The demand for Power in India in recent days has increased by leaps and bounds and the existing supply is far too inadequate to meet the requirements. This scenario opens great opportunities for new players to venture into the power generating equipment manufacturing. The Government of India is framing new policies and plans to encourage entrepreneurs in the field of power generation to bridge this demand supply gap.



Arani Power Systems Ltd is a formidable force in the field of Steam Turbine manufacturing, committed to engage ourselves in building power infrastructure and meeting the needs of the core sectors of economy. We offer Turbo-Generator packages for Co-generation, IPP's, CPP's in Sugar, Steel, Cement, Paper, Biomass and other core sectors including Utility segment.

Eminent experts in specialized disciplines form the bedrock on which our company is founded. The in-depth experience of our team members, that spans over more than three decades with well known steam turbine manufacturing companies across the country and overseas, places our organization at a vantage, to fulfill the needs of the Power industry across the globe.

Our thorough expertise in the area of power generating equipments has spurred us to venture into the business of manufacturing Steam Turbines and allied auxiliaries, to provide complete Power Generating Solutions.

Evolving to meet ever increasing demand we at Arani, use the latest and superior technology in developing Steam Turbines according to global standards. This gives our team an opportunity to design and deliver customized products meeting customers specific requirements. We have built trusted relationships over the last few decades with our clients and stakeholders that has transformed into this new venture Arani Power Systems Limited.

Quality is our passion and priority of our corporate policy. We pride ourselves on building quality satisfaction through unsurpassed products and services. We adhere to quality plans and procedures as per ISO 9001. Creativity and innovation are an intrinsic part of our work ethos.

Our Research and Development team comprises the intellectual cream across the world in the field of turbine development and manufacturing with proven talent in design of products specific to the Indian scenario.

Propelled by our many inherent strengths, Arani is the regional OEM, located strategically in Hyderabad that offers immediate access to customers, for ever responsive after sales service, apart from products with prompt delivery.

We are confident that our commitment towards meeting and exceeding customer expectations shall result in unmatched growth potential and a brighter future.

Arani- Your Reliable Partner in Power

Arani Power Systems Limited was established by a group of topnotch technocrats, with a wealth of varied experience at the forefront of R&D, Design, Engineering, Manufacturing, Erection & Commissioning, Troubleshooting and after sales service of the steam turbine industry. Arani is an Original Equipment Manufacturer of 2.5-60 MW Steam turbines customised specially for core industrial sectors such as Steel, Cement, Sugar, Paper, including Utility sector. The company's strength lies in engineering expertise, domain excellence and speedy completion of assignment and delivery.

Arani partners the progress of its customers, delivering optimum Steam Turbine based solutions ensuring the highest quality possible.

Vision

To be a global player in energy sector with environment friendly products.

Mission

- To develop cost effective, efficient and environment friendly products.
- To keep up the state of art manufacturing facilities.
- To optimize material and manufacturing cost.
- To continually upgrade man power skills.
- To continually improve the processes and systems to attain quality and customer satisfaction.

Values

- Integrity and fairness in all aspects
- Focus on technical requirements with customer centric
- Treat the suppliers and sub contractors as your business partners
- Be conscious about safety of employees and environment
- Loyalty and pride in working

The Dynamic Team at the Top

Shri Ramesh Yerramsetti, Founder Chairman

Mr. Ramesh holds a graduate and post graduate degree from BITS, Pilani. He has a 15 years of experience in building successful, scalable and sustainable organisations right from concept. His versatile capability, strong analytical, problem solving abilities made him successful in many international markets and under adverse market conditions.

He is the Founder and Managing Director of GSS Infotech Ltd. Trading on BSE and NSE. His uncompromising Quality, Continuous improvement in all aspects of business, value based culture, customer delight and business continuity some of his core strengths. He has worked with several reputed organisations like IBM, Morgan Stanley and Council of Scientific and Industrial Research.

Shri K.CH Peraiah, Promoter and Managing Director

A well known personality in the field of Steam Turbines, his unrivaled experience spans over 3 decades of illustrious years and is well known for his contemporary designs. His remarkable and path-breaking contributions include development of a new series of Turbines, low pressure twisted blades and Patented axial exhaust hood during his tenure

with the prestigious organization like BHEL. He has rich experience in Research and Development, Product Design, Manufacturing, Operation, Troubleshooting, Commissioning, RLA Studies, Performance Evaluation, Re-engineering and Re-Powering.

Mr.Peraiah was involved in more than 500 Turbo unit projects and these projects are even today running smooth and proved reliable. His design and developments are widely used in Co-generation units, Captive Power Plants, Combined Cycle Plants, Compressor Drive Turbing Plants, Independent Power Plants based on Biomass.

His vast acumen includes training of M/s Siemens, Germany on technological aspects of Steam Turbines upto 120 MW capacity.

Shri C.K.Khot, Member, Board of Directors

A distinguished specialist Steam Turbines in India, he was pioneer in introducing the Steam Turbines, Compressors and Gas Turbine Technologies from M/s Skoda, M/s Neuopigone and M/s GE in India. He has held Executive Director position during his services with BHEL and was also on the board of BHEL.

M. Gopalakrishna, Board of Director

An IAS officer of supreme distinction served under the Governments of Assam, Andhra Pradesh and Government of India. He has held very senior positions in the Government both at state and central including that of Chairman Rural Electrification Corporation and Chairman Standing Conference of Public Enterprise (SCOPE).

He is at present Chairman/Director of a few Public Limited Companies and also President Southern Region & Hyderabad Chapter of the National HRD Network.

Technocrats at the helm

Arani takes pride in a distinguished Technical Board that marks the coming together of topmost achievers in different specializations of Steam Turbine industry.

Dr.J.S. Rao, Member, Technical Board

Dr J.S. Rao, is a beacon light of knowledge in the Power industry. Having held various positions including Doctoral Commonwealth Fellow in many national and international institutes, his name is synonymous with 'rotor dynamics'. His rich repertoire constitutes scientific research in Vibrations, Turbo machine Blade, Aero & Structural Dynamics, Rotor dynamics, CFD, life estimation. He has authored award winning papers and books. His invaluable contributions to the Power industry encompass the areas of research, education and R&D. He has also authored award winning papers and books.

Active at the forefront of research, his recent landmark contributions to Gas Turbine research are

- * Establishment in the LP compressor design
- * Identifying the root causes of continued HP compressor blade failures over the last 3 years
- * Efforts to speed up the Kaveri design activities to make the engine for a Light Combat Aircraft

Dr. Udai Singh, Member, Technical Board

Professor Udai Singh is highly specialized in the field of Aero Thermal (including stress analysis) engineering. His expertise in the development of steam and gas turbines is recognized internationally. His vast experience spans over 30 years in the development/ application of CFD tools for internal flows. He has over fifty publications related to the design of turbo machine components.

He has worked with and acted as a consultant to many manufacturers like GEC, Alstom, ABB, GE, QUEST and Ministry of Defence UK.

Some of the designs he has been involved in are wide cord fan and LP Gas Turbine, 20:1 axial compressor, 14 inches diameter centrifugal compressor, LP steam turbine stages ranging from 12 to 60 inches.

Dr. M. V. A. Murthy, Member, Technical Board

Dr. Murthy has 34 years of enriched experience in Design of Steam turbines, Aero thermodynamics of compressors, and 3-D Viscous Flow analysis of multi stage turbo machines through CFD.

One of his major achievements is the development of software for conceptual design and optimization of flow path configuration & blade sections of steam and gas turbines. He has made valuable contributions in CFD analysis & turbo-machinery components for testing of KAVERI Engine.

Mr. Balasubramanya, Head of Manufacturing

He has a 35 years of experience in steam turbine manufacturing and has proven expertise in Production Planning and Control, Industrial engineering, Vendor development and sub Contracting, Workshop management and Industrial Relationship, Project Management - Expansion of Plant capacity, machinery and modernization.

Mr. V. Y. V. Prasad, GM of Materials, PPC & Production

Worked for 24 years in Mahindra & Mahindra in Quality Assurance & Materials Management activities. Holds B.Tech (Mechanical) & PG Diploma in Management Development by M/s Werlingkar (Mumbai) and Statistical process control by M/s Indian Statistical Institute (Hyderabad). Conversant with Vendor Development & Subcontract, Purchase & Planning, ISO & TS Quality systems implementation.

Mr. S. Butchayya, Vice President (Engineering)

Has worked for 35 years in BHEL, R.C.Puram. Trained in Siemens works, Germany, developed various turbo-generator modules from 2.5 to 150MW. His area of expertise are Design calculation & development, detailed product design and troubleshooting.

Mr. G. Vishnu Murthy, Vice President (Quality)

Has worked for 35 years in BHEL, R.C.Puram in quality department and headed it for 5 years Specialized in manufacture of rotating machinery, implemented various quality systems like ISO, TQM, six sigma, RCA for continuous improvement of quality of products. Trained by M/s Siemens at their works for implementation quality practices of ST sets upto 120MW.

Mr. A.K. Chatterjee, Dy. General Manager (BOPE)

30 years of demonstrated engineering & troubleshooting experience on controls, Instrumentation, protections, Electricals and other BOPE items. His area of expertise are development on PLC based control systems, electronic governing system and fail safe redundant control protections.

Arani - Strong growth Momentum

The state of the art steam turbine manufacturing facility is at Cheriya near Patancheru, Hyderabad which is the hub of the Turbine industry activity where there is no dearth of vendor and talent pool, which further influences in minimizing the manufacturing lead time.

The corporate office is located in Hyderabad at an ideal place which is easily accessible to clients and stake holders by Air, Rail and Road.

We offer customised Turbo-Generator packages from 2.5-60 MW for Co-generation, IPP's, CPP's, CCP's and Biomass power plants for Steel, Cement, Paper, Sugar, Petrochemicals, Pharmaceutical, Fertilizers, Textile etc.

Marketing activities have commenced in full swing and discussions are underway for a marketing tie-up with reputed industry houses in Middle East for promoting Arani Products and services.

Association with Global giants

In order to achieve targeted goals, the company has firmed up a marketing tie-up with M/s Turboatom of Ukraine which is one of the world's largest enterprises for design and manufacture of a wide range of Steam, Gas, Hydel and Nuclear turbines. Turboatom has a prominent presence in 35 countries including India. Turboatom production range for steam turbines extends from 1 MW to 1100 MW.

Arani will promote their Steam Turbines (60-150 MW) packaged along with other auxiliaries in India, sub-continent and other neighboring countries.

Arani Offers you a competitive edge

- * Design, manufacture of steam turbines from 2.5-60 MW and complete TG island
- * Packaged power solutions for 60-150 MW
- * Essential services including erection & commissioning
- * Project consulting, customization and cost effective solution
- * Application of standardized project solutions wherever possible
- * Solutions based on modular designs for steam turbines
- * Trouble shooting, supply of spares & servicing for all makes of existing turbines
- * Refurbishing and modernization of all turbines
- * Long term service and maintenance contracts

Our Technical Strengths

High-end expertise in analysis like Rotor Dynamics, Finite Element Analysis, Computational Fluid Dynamics, High Cycle Fatigue(HCF), Low Cycle Fatigue (LCF), & Creep to improve the performance and life cycle of the turbine.

Various time tested high-end software codes are used in design development for following analysis.

- * Aero-profiles modelling codes
- * CFD codes for developing blades and steam flow path
- * Grid meshing codes
- * FEA codes for structural analysis
- * Solid modelling codes for modelling components and assemblies
- * Codes for unbalance response, stability analysis, torsional and short circuit analysis
- * Pro/E & Autocad for Mechanical Design
- * In-house programs (VBA code) for lateral torsional, blade vibration & stresses

Quality Management System

Arani Power Systems Limited is an ISO 9001:2008 certified company having quality management systems and guidelines in order to give full value addition to the customers with respect to customer relationship management and information security management systems

Our quality manual has been aligned to meet the requirements of following international standards.

- ISO 14001 Environmental Management System
- ISO 18001 Health & Safety Management System
- ISO 20000 Customer relationship Management
- ISO 27000 Information Security Management System



Quality Policy

Customer Delight is our aim

Arani Power Systems is engaged in Design, Develop, Manufacture and Commissioning of Steam Turbines.

In line with our Vision, Mission and Core Values, we are committed to enhance customer satisfaction and achieve sustainable growth through :

- Design, Develop, Manufacture and Supply of Defect- Free, Reliable and Customized products to the satisfaction of customers,
- Continual improvement in all facets through infrastructure upgradation and practicing management systems, and
- Inculcation of Total Quality culture at all levels of Arani Power Systems.

