

COMPANY PROFILE



DEDICATED TO IRON, STEEL & POWER INDUSTRIES

EICS GROUP OF COMPANIES

(AN ISO 9001:2015 CERTIFIED ORGANIZATION)

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THE COMPANY

EICS - the consultancy organization founded by **Mr. S. N. Swamy** in 1997 for providing consulting engineering services for Iron & Steel plants in India. The company offers integrated design and engineering consultancy services from concept to commissioning for a wide range of projects like Sponge Iron plant, Steel Melting Shop, Power Plant, Blast Furnace, Rolling Mill, Ferro alloys and new technologies like Beneficiation, Pelletization, Sintering and Tunnel Kiln.



EICS specializes in project planning and appraisal, design and detailed engineering from green field to commissioning of the project. Over the years, EICS has built up a multidisciplinary team of about 200+ professionals with experience in various fields, fully abreast of state-of-the-art technologies and having an intimate understanding of the latest trends, combining creativity with initiative. EICS represents a unique combination of experience blended with talent, catering to the specific requirements of each project.

EICS has its headquarters in Bilaspur Chhattisgarh and has a network of offices at Chennai, Bellary (Karnataka), Dindigul (Tamil Nadu), India.

EICS also has an international presence in the form of its subsidiary company **EICS International LLC** based in Dubai, UAE which provides Designing, Engineering and Consultancy services for Solar Plants & Municipal Waste Management Plants. Additionally, it provides technical upgrade solutions in Steel and Cement industries in the MENA regions. Steel trading is one another avenue where the company holds a strong manifestation.

The organization has earned appreciation for its dedication and teamwork. Today, EICS name is synonymous with excellence in engineering consultancy services.

EICS is an ISO 9001:2015 certified



“VISION”

To be the preferred turnkey projects solution provider in the Asia and Africa continent, in the selected niche areas of Infrastructure Projects such as Iron Steel and Power, with focus on improvements in Quality, productivity, environment and safety.

“MISSION”

To be a knowledge driven, innovative and ethical business unit, striving to provide “The State of The Art” Turnkey project solutions and technologies in Iron, Steel, Power and other related Projects targeted to improve aspects of Quality, Productivity, environment and safety, in Infrastructure Projects.

“QUALITY POLICY”

EICS is dedicated to continual improvement of all applicable processes and services to meet the needs and expectations of the interested parties, by fully complying with requirements of the Quality Management System.

Continual Improvement is the motto of our company and is the responsibility of all employees.

Our success in realizing these quality goals will be evident from the satisfaction of our customer through staff development and mutual beneficial relation management of the interested parties.

Date: 24.05.2019

Chairman & Managing Director



KEY EXECUTIVES

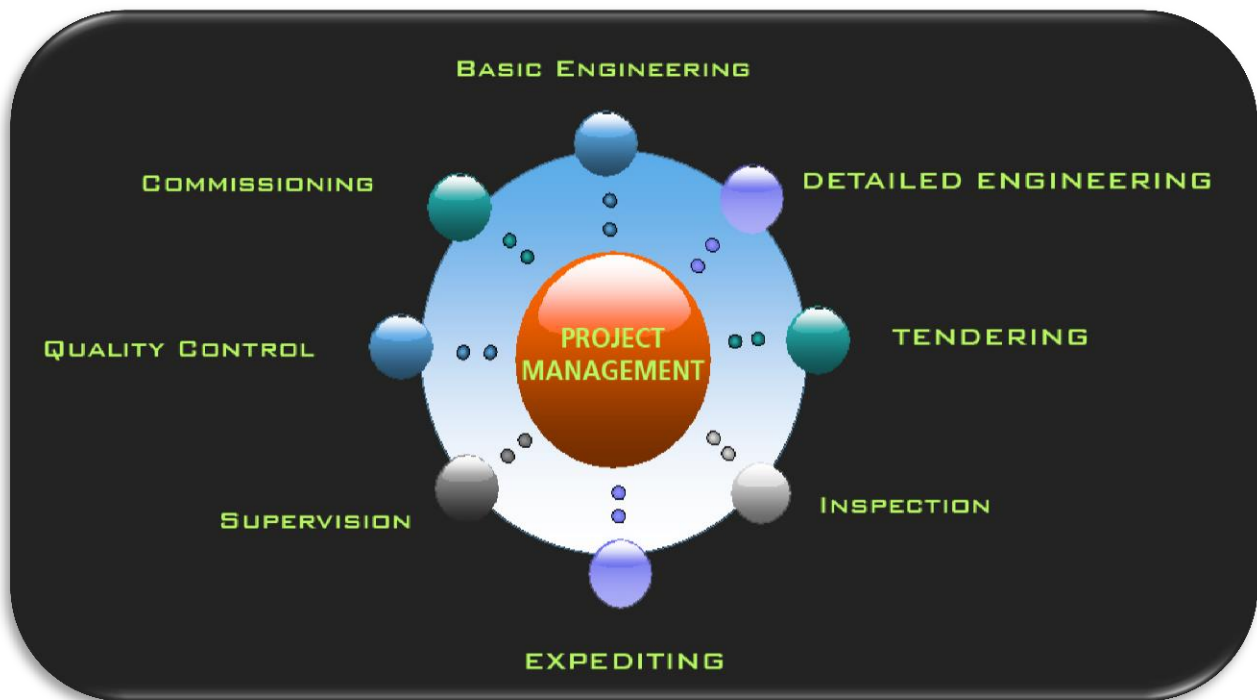


Mr. S N Swamy	-	Chairman & Managing Director
Mrs. Hemalatha N Swamy	-	Jt. Managing Director
Mr. S R Prasad	-	Sr. Vice President
Mr. T N Varadarajan	-	Sr. Vice President
Mr. E. Manoharan	-	Chief Executive
Mr. K S Reddy	-	Sr. G.M (Engineering)
Mr. Vellai Chamy	-	G.M. (E & I)
Mr. Swapan Basu	-	Technical Adviser (Beneficiation)
Mr. V.N. Jarnarthan Rao	-	Technical Adviser (Project Management)

FUNCTIONAL SETUP

EICS has earned the reputation of being a treasury of technical knowledge, skill and professional competence. In the course of setting up various projects, EICS has worked with a large number of engineering/contracting companies worldwide and is well versed with the engineering codes and practices followed internationally.

The Multi-dimensional services and vital experience gathered over the past years attract clients from all spheres of industry to this engineering consultancy and EICS offers them an entire gamut of services through consultancy services as well as in turnkey concept, by way of a co-coordinated functioning of the various specialist groups, as indicated in the graphic.



SERVICES OFFERED

In the past years, EICS has served an impressive array of clients in diverse fields of operation (Iron, Steel & Power). EICS takes up project both on a consultancy basis as well as on a turnkey basis, relieving the client of the tedious intricacies of project management, technology sourcing, hardware procurement and construction.



Our service packages, from which tailor made solutions are customized for client's specific project requirements, are as follows

- φ Pre-project activities like Market Survey, Preparation of Techno-Economic Feasibility Reports, Financial Analysis, Detailed Project Reports, Environmental Impact Assessment studies, selection and transfer of technology, and assisting owner in liaising with project financing agencies; statutory authorities etc.
- φ Project Proposal Preparation
- φ Basic Engineering, Detailed engineering and Know How
- φ Procurement assistance
- φ Site selection and Construction Management
- φ Project Management, Planning, Monitoring and Control on Total Responsibility basis.
- φ Inspection, including third party inspection and expediting services
- φ Manpower Training, Know-How and Operation & Maintenance Contracting
- φ Technical Advisory Services//Formulation package
- φ Safety, Energy and Environmental Audits & Conservation, Risk Analysis, disaster management studies, lightning protection adequacy studies etc. of existing plants.
- φ Revamp and retrofit of ailing plants
- φ Global Contract Bidding
- φ Turnkey Consultancy in Specialized Areas
- φ EPC Contracting on Turn-key basis

In addition to above consultancy services, EICS takes up projects on a lump sum turnkey contract basis and/or execution of the projects on total responsibility basis.



CAPABILITIES

EICS provides the complete range of services needed to conceptualize, design, engineer and construct projects to meet the specific requirements of its clients. Its association with clients extends beyond the commissioning of their plants through assisting in operation & maintenance. The Services offered by EICS include:

- Feasibility & Concept Studies
- Field Development Planning
- Process Studies & Design
- New Technology Application
- Project Management & Consultancy
- Planning & Scheduling
- Economic Assessment / Cost Engineering
- Basic & Detailed Engineering
- Procurement
- Construction Management
- Commissioning & Plant Start-up Assistance
- Process Audit, Energy Audit & Conservation
- Environmental Studies
- Owner's Consultant
- Plant Operations & Safety
- Advanced Control & Optimization
- Training

Feasibility Studies

EICS' experience in a variety of fields is available to clients for creation of new facilities or expansion or diversification of their existing activities. Services offered range from carrying out pre-investment studies to detailed feasibility reports and include sourcing and evaluation of alternative technology solutions, Market Analysis, various aspects of project development studies and detailed financial/economic analysis etc.



CAPABILITIES

Project Management

EICS has devoted considerable attention to the vital area of Project Management. Heading the project team is the Project Manager who serves as a crucial link between the client, sub-contractors, suppliers and EICS.

EICS' project management services comprise directions and coordination of the activities leading to the execution of a job in accordance with terms of the contract, in compliance with the job schedule and to the satisfaction of the client. The efforts of various agencies such as vendors, contractors/sub-contractors & EICS' inter-departmental interfaces are systematically coordinated to result in fruitful culmination of the project

The Project Manager is assisted by experts from three sub-groups:

- Planning & Scheduling and Cost Control Engineer
- Management Information Systems
- Completion of projects on schedule, within defined costs and without compromise on quality is the main objectives of the Group.
- The Chief of the unit(s), heads a multi-disciplinary Task Force comprising specialists from the following streams:
 - Process engineering & Systems design
 - Engineering : Civil & Structural, Mechanical, Electrical and Instrumentation
 - Planning, Cost control, Management Information System
 - Procurement: Purchase, Inspection & Expediting, Vendor Co-ordination, Stores Management
 - Site Management : Construction, Testing, Commissioning, Trial Run & Start up.

Planning & Scheduling

EICS ensures effective & timely implementation of projects through detailed assessment of work quantum, meticulous planning, micro level scheduling and dynamic monitoring. State-of-the-art, software packages on project management are deployed for preparation of plans / schedules and their analysis. These schedules are reviewed, updated and project completion outlook analyzed by planning engineers having vast experience in all phases of project planning. Corrective action plans are developed for functional & executive levels of project management wherever required.



CAPABILITIES

In addition, quantitative progress of the various phases of project is measured and reported through a well-designed reporting system, which enables complete evaluation of project performance.

Process Engineering

The functions taken care of by this group are:

- License and knowhow for technologies in selected areas
- Sourcing of Technology
- Selection of relevant technology option
- Preparation of Front-end engineering design packages
- Preparation of material & energy balance, Selection, Sizing & preparation of data sheets for process equipment, Process control & instrument protection system, utility requirements, utility distribution diagrams etc.

System functions like:-

- ▶ Development of Process and Instrumentation Diagrams(P&ID), equipment layouts;
- ▶ Preparation of Operation and Maintenance manuals .

Translation of basic engineering to detailed engineering deliverables

Detail Engineering

The process design package is converted into detailed engineering drawings and documents by specialist civil, structural, mechanical, electrical & instrumentation engineers. Computer aided design techniques are used as design aids to help develop optimum layout & design to assure maximum construction, operational & maintenance convenience.



CAPABILITIES

Detailed drawings and Bill of Materials are prepared, ensuring highest degree of accuracy and error-free drawings. Documents / Drawings are transmitted electronically using the LAN environment for in-house use and Internet for external use.

Detailed engineering leads to identification & specifications of equipment and material for procurement & needs of construction activities at site.

A wide spectrum of engineering disciplines figures in Detailed Engineering, each with a well-defined functional role.

- ▶ Architectural
- ▶ Civil and Structural
- ▶ Process
- ▶ Mechanical & Piping
- ▶ Rotating Equipment
- ▶ Electrical
- ▶ Instrumentation
- ▶ Process Control/Automation

Architectural, Civil and Structural

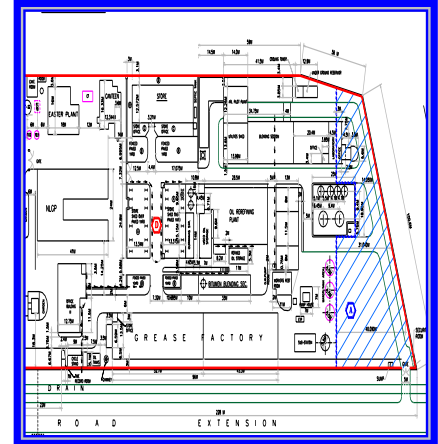
- Drawings for landscaping and establishing formation levels.
- Detailed designs for civil and structural works.
- Architectural plans for building and composite projects.



CAPABILITIES

Mechanical

- Layouts of plants
- Planning drawings
- Detailed specifications and drawings of plant systems and equipment for procurement
- Checking of vendor data for technical suitability.
- Preparation of piping production drawings, material control, stress and flexibility analysis, layout diagrams, isometrics etc.
- Preparation of installation specification of installation specifications and schedules of work.



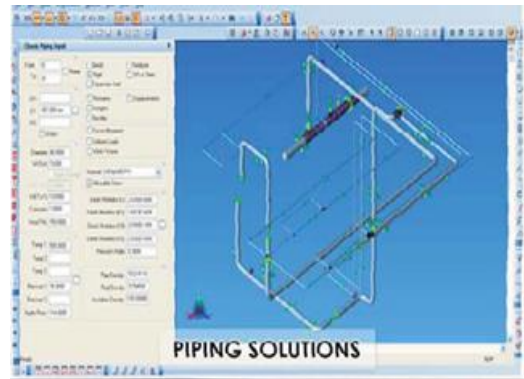
Electrical

- Design and Engineering of power distribution systems, fire alarm systems, power factor improvement systems, cathodic protection systems, lighting, heating, air-conditioning & ventilation system, lightning protection systems, communication systems etc.
- Detailed specifications for procurement.
- Sub-station layouts, cabling, earthing and lightning protection drawings.
- Single line diagrams, schematic diagrams etc.
- Vendor data review.
- Installation specifications and schedules of work.

CAPABILITIES

IBR & Non IBR Piping Solutions

- Preparation of P&I Diagrams
- Sizing & routing of piping based on optimum velocity & minimum pressure drop
- Design of distribution system with stress analysis
- Preparation of the schedules for piping, valve and instrumentation
- Design & selection of Insulation specifications for minimum radiation loss
- Sizing and selection of pump, control valve, safety valve, steam, material of construction, thickness, etc.
- Preparation of detailed report along with piping layout, plan, elevation, isometric drawings, BOM/BOQ
- Engineering of pipe supports and hangers.
- Preparation of Pipe Rack engineering.
- Inspection services for piping system component.
- Supervision of piping system erection & Commissioning including steam blowing of pipe work at site.
- Trouble shooting of piping system components
- Preparation of tender specification for piping design, supply, erection & commissioning
- Selection of expansion bellows
- Provision & support for detailed technical specifications for the procurement of valves, control valves, safety valves, steam trap, expansion bellow, strainers, spring hangers, pipes & pipe fittings and other specialties.



CAPABILITIES

Material Handling Systems

- Selection of suitable conveying mechanism and scheme
- Layout finalization
- G.A drawing and flow chart preparation
- Equipment sizing and selection
- Designs for support structures and buildings
- Complete civil engineering required for Material storage and conveying system
- Electrical, control and automation engineering for complete conveying system
- Complete Design and engineering for material storage yards and sheds
- Detailed engineering drawings with plan elevation, section, BOM and BOQ
- Manufacturing of different components and materials as per
- Specifications/Drawings/BOM/BOQ
- Procurement assistance
- Project planning and management services
- Equipment inspection services
- Complete Supervision of work
- Erection and commissioning
- Applicable areas: Any industry where there is a need of material conveying like Sponge iron plants, power plants, cement industry, sugar mills, paper mills, material crushing and beneficiation units etc.



CAPABILITIES

Instrumentation

- Plans for instrumentation, control, safety & shut-down interlocking, batch sequence logic & Recipe management, annunciation of plants & systems.
- Specifications for instruments and control systems, Hook-up dwgs, instrument layout drawings, control software development. e.g. block logic diagram, control schematics etc, control panel drawings, cable routing & interconnection dwgs, etc.
- Consultancy for updating of conventional instrumentation system to Distributed Control System/Programmable Logic Controller.
- Vendor drawings & data review.
- Installation specifications and schedules of work.



Advanced Control & Optimization

EICS has expertise in the field of modernization of instrumentation from pneumatic to microprocessor based Distributed Control system (DCS). EICS also undertakes scoping studies and implementation of advanced control strategies by utilizing on-line plant/supervisory computers.

With increasing awareness about plant automation, EICS has also developed adequate expertise in preparation of master plan for total plant automation/information systems & offsite automation including blending leading to total computer integrated processing system.



CAPABILITIES

Procurement

EICS offers comprehensive procurement services through a highly professional multi-disciplinary purchase team, effective monitoring and expediting group.

Following comprehensive procurement services are provided:

- Vendor identification, evaluation & pre-qualification/enlistment.
- Entire purchase activity, starting from floating of enquiry, Techno-commercial evaluation of bids and placement of order.
- Progress monitoring & expediting
- Inspection / dispatch clearance
- Transportation planning & coordination
- Customs, Port clearance & forwarding activities; etc
- Receipt, unloading, storage at site and issue of materials

A databank providing significant information on capable vendors is maintained and constantly updated.

EICS' procurement staffs are also experienced in International Competitive Bidding procedures and procurement practices through their association with projects funded by bilateral and multi-lateral funding agencies..

Inspection

This team is responsible for quality assurance and timely receipt at site of bought -out items. Their functions include;

- Inspection & Quality Certification at various stages of manufacture including FAT and SAT
- Expediting of supplies
- Testing of equipment before dispatch to site
- Vendor data co-ordination and,
- Third party inspection services.

EICS has a very good working experience with all leading third party inspection agencies(TPIA) by virtue of execution of several projects with them.



CAPABILITIES

Construction Management

Engineers in this team are specialists in various areas of civil and structural work, mechanical fabrication and erection, electrical and instrument installation and testing.

EICS' provides total construction management services at site including selection of construction contractors, warehouse management, quality control/quality assurance (QC/QA), progress monitoring & scheduling, review of heavy erection schemes, safety etc. Depending on client's need, EICS takes total site responsibility from survey & soil investigation to mechanical completion & commissioning / handing over.



Use of modern construction techniques, innovative construction procedures, emphasis on QA/AC are some of the hallmarks based on which it has been possible for EICS to reduce construction time of projects yet providing work of highest quality.

The major functions covered by the Construction Team are as under:

- Home office contract administration and over-all construction and over-all construction planning
- Field engineering
- Stores management
- Area supervision
- Health & Safety
- Quality control
- Certification of bills



CAPABILITIES

Commissioning & Plant Start-up

EICS' Commissioning team associates itself with the project right from the process design stage. It reviews process & engineering design documents especially with respect to operability & safety. The team also prepares operation manuals providing instruction for plant start-up, shutdown & handling various emergencies. It provides guidelines and supervises pre commissioning & commissioning activities at site. EICS' responsibility continues till production of specification products has been established to the full satisfaction of the customers. The team assists process department in conducting performance guarantee tests in order to establish plant operation at design through-puts with product of specified quality. EICS also provides technical guidance to customers in the area of trouble shooting.

After Commissioning Support

EICS does not restrict its services up to the handing over of the plant to the client, but extends its fullest support to its clients towards smooth running, sourcing of raw materials, maintenance of equipment and up gradation/enhancement of plant and facilities. EICS also provide necessary training to clients operating & maintenance personnel.

Plant Operations & Safety

As plants handling hazardous materials are growing in size and complexity, Risk Management are assuming critical dimensions, EICS has the expertise to undertake specialized investigation studies and their implementation, in the area of Risk Analysis & Safety Engineering, de-bottle necking, energy management. EICS has the capability to help the client in site selection, plant and equipment layout, optimum offsite storage capacity etc. taking total risk involved into consideration to ensure safety of the operating personnel and the community from fire, explosion or toxicity.



OUR HARDWARE & SOFTWARE SUPPORT

1.	SERVER	<p>DELL server (3)with 2U Rack, Quad-core or six-core Intel® Xeon® processor 5500 and 5600 series Processors, Intel®, Up to 12TB Storage capacity and Up to 288GB (18 DIMM slots) : 1GB/2GB/ 4GB/8GB/16GB DDR3 up to 1333MHz memory.</p> <p>Microsoft® Windows 2008 Enterprise Server , Windows 2008 Data center , Windows server 2008 Std. Edition.</p>
2.	SYSTEMS	<p>90 Nos. Dell PCs / with Intel Due Core CPU, 2.96 GHz, 4.0 GB RAM, 300 GB HDD, Dell Professional monitor, Window 7 Professional licensed version.</p>
3.	PLOTTER	<p>3 Nos. HP Design jet 500 (42”) A0 Size Plotter With 1200 DPI with 16 MB RAM</p>
4.	PRINTERS	<p>2 No. HP LaserJet 5025 MFP Printer With Scanner, Copier, with 64 MB RAM.</p>
		<p>2 Nos. HP Desk Jet Inkjet Color Printer 1050.</p>
5.	ENGINEERING SOFTWARES	<p>STAAD PRO 2006, AUTO CADD 2012, AUTO CAD DESIGN REVIEW 2012, AUTO CAD PLANT 3D 2012, AUTOCAD REVIT STRUCTURE 2012, AUTO CAD STRUCTURAL DETAILING 2012, NAVIS WORK SIMULATION 2012, AUTO DESK SHOWCASE 2012, SKETCHBOOK DESIGNER 2012, INVERTOR FUSION 2012, MICROSOFT OFFICE PROFESSIONAL 2010, AUTO CAD 2010.</p>
6.	UPS	<p>EACH 40 KVA WITH 5Hr. BACK-UP TIME</p>



CONTACT DETAILS

REGISTERED OFFICE

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