

Branch Offices

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Head Office

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421203 Maharashtra, INDIA

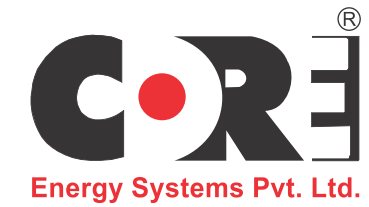
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committed

to excellence in
engineering solutions
and services



about us

CORE Energy Systems is a Manufacturer of Engineered Package Systems and EPCM Company providing Turnkey solutions through rich expertise, vision & innovation performance.

Our CORE business activities are in offering Engineered Skid Packages & solutions, undertaking Turnkey Installations, executing High end engineering services and supply of Electromechanical equipments.

We specialise in designing and supply of systems & project packages pertinent to Nuclear, Defense, Oil & gas, refinery petrochemicals and fertilizers Industry. The company also has wide exposure and expertise in to almost all other major industrial segments like Power, Chemicals, Steel, and

CORE's business philosophy is to offer value added cost effective quality solutions that meet the stringent technical requirements and deadlines.

The company is located in the Industrial area of Dombivali, in Thane district and has an overseas office in London and network of establishments in Middle East, Africa through association with several Business partners. CORE also has multiple offices and sites spread out across India and the network is growing continuously to cater to our fast growing business and increasing number of clients.

Core Business Philosophy

Business Model

Growth through Strategic Partnership.

Mission

Committed to total Customer Satisfaction & be amongst the most admired and trusted Partner delivering Reliable, Efficient & Quality Products and Services.

Vision

Emerge as a leading Integrated Solutions provider to the Nuclear, Oil & Gas, Defense Industry by leveraging on Technical Expertise and strong network of leading Global Partners.

Operating Principles

Create Value for our Customer.
Business with Ethics.

Operating Model

Value addition across the chain and deliver cost effective solution.

Our Structure

Group sets strategy
Divisions deliver results

Business Offering

Turnkey Projects ,
Engineered Systems &
Value added Services.

Our Behaviour

We build trust and respect. We cultivate an entrepreneurial culture. We encourage our people to excel. We deliver our promises.



Strengths

The CORE project management, Design & Engineering team has developed Innovative processes, technologies and capabilities to deliver customized solution across niche verticals.

CORE excels at

- **Project Management:** CORE has a comprehensive set of project management procedure which includes details of roles and responsibilities, legal, HSE, QA/QC, risk, cost and scheduling requirements.
- **Engineering:** Multi Discipline Engineering capability backed by customized design process that meets stringent and challenging applications.
- **Risk Management:** CORE has developed a layered approach to risk management that allows identifying and mitigating them.
- **HSEQ:** CORE has HSEQ management systems that minimises risks for companies, suppliers and contractor personnel associated with a project.
- **Procurement Management:** CORE has a comprehensive set of procurement management strategy by partnering with OEMs which helps in sourcing in a cost effective and shortest lead time.
- **E-Business:** All of CORE's business processes are full electronic and web enabled. This allows for the efficient flow of information to the various work sites.
- **Document Control:** CORE manages its entire project lifecycle with Innovative technology and in house software which are best in class and are used to manage various critical processes.

9 Reasons to Choose us

- Stringent Compliance to Safety and Environment.
- Being cost competitive and adherence to the Project Timelines.
- Strategic partnership with OEMs from around the world.
- Dedicated back-end technical team for on-demand technical solutions.
- Professional resource planning and allocation to meet short-notice needs of the customer.
- Quality Certified Systems and Standards. Technically Certified personnel by authorised bodies.
- Global service and spares support.
- Value Added Technical Services.
- Innovative Engineering Solutions.



Make In India

As a contribution to Make in India initiative, CORE is focussed on Indigenization of critical equipments and machinery that are manufactured abroad.

CORE methodology is to utilise local manpower and vendors so as to minimize project cost. By sourcing various components locally and fabrication in-house we deliver robust systems with uncompromised quality.



Key Verticals



ETS

Engineering & Turnkey Solutions

Design, Engineer, Procure, Construct, Erect & Commission Projects. We undertake the entire spectrum of activities right from feasibility study, design and planning of the project till its execution and commissioning.



EPS

Engineered Package Systems

Engineer, Customize, Integrate & Manufacture Skid Mounted Packages meeting customer Applications. Design and develop Import substitutes for critical applications.



IPS

Industrial Productivity Solutions

Supply range of Industrial Products, Capital, Electronic & Electrical Equipments, Instrumentation Products, Components, Accessories & spares in association and joint venture with reputed OEM's.



IES

Industrial Engineering Services

Executing High End Engineering Services like Operation & Maintenance, Shutdown Maintenance, Erection & Commissioning of Plant, Manpower Supply, Repairs & Maintenance for niche sectors.



NES

Nuclear Engineering Solutions

CORE has the capability for providing the entire range of nuclear services from site management through to waste management and decommissioning, in collaboration with a LEADING TECHNOLOGY partner






ETS

CORE provides complete range of services needed to design, engineer, construct, erect and commission projects. All projects are executed through effective and timely implementation by detailed planning, scheduling and continuous monitoring without compromising on Quality, Safety standards & Client requirements.

CORE is emerging as a holistic company with capability in residual and detailed engineering design. CORE's expertise coupled with domain knowledge gives an edge to our customers & Business associates to successfully execute even the most challenging projects on time.

We undertake Projects in Nuclear, Oil & Gas, Power, Petrochemical, Infrastructure and Other related Industries.



Engineering & Turnkey Solutions

ETS

Design & Engineering Consultancy

- FEED
- Pre Bid Engineering
- Basic & Detailed Engineering

EPCM/LSTK

- Electrical Transmission & Distribution
- Compressed Air & Gas Systems
- HVAC & Chilled Water Plant
- Fire Fighting Systems
- Water Treatment Plant
- Waste Management & Water Treatment Plant
- Material Handling project
- Surface Engineering & protection
- Plant Project Management
- Plant Erection & Commissioning

Engineered Package Systems EPS

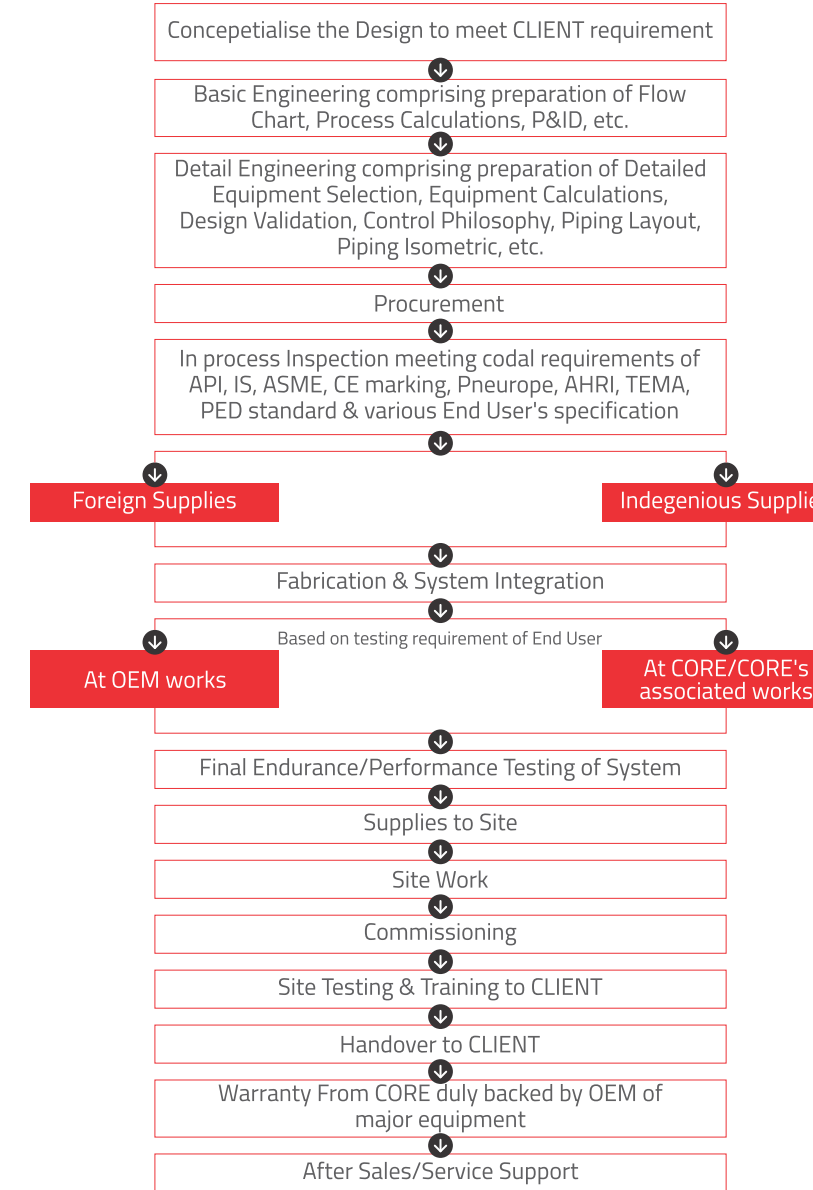
EPS

Our manufacturing techniques incorporate the industry wide best practices and are in full compliance with industry regulation and codes. We design and deliver Systems & Packages to meet the wide range of client requirements. CORE is fully equipped; International Standards and Codes qualified fabrication facility stands ready to assist you with all of your engineered packages needs.

However complicated your project, CORE will build-to-design according to your specifications. CORE will deliver the completed package optimized, certified, installed, and performance guaranteed for use anywhere in the world We can offer either standard package, available from stock, or specialized systems to meet your specific needs.



EPS Process



System Integration & Skid Packages

- Compressed Air & Gas Skid Packages
- Containerized Compressed Air Package
- Process Pumps Skid Package
- Fire Pump Packages
- Odorisation Skids
- Metering Skids
- Hydropneumatic Systems
- Fluid Control Valve Stations
- Nitrogen & Oxygen Generator Skid
- High Vacuum Hybrid Systems
- Diesel generator set air starting system

Nuclear

- Liquid Zone Control Compressor System
- ECCS Compressor Package
- Reactor Vault Door operations Vacuum Systems

Oil & Gas

- Flare Gas Recovery Systems
- CNG Compressor Packages



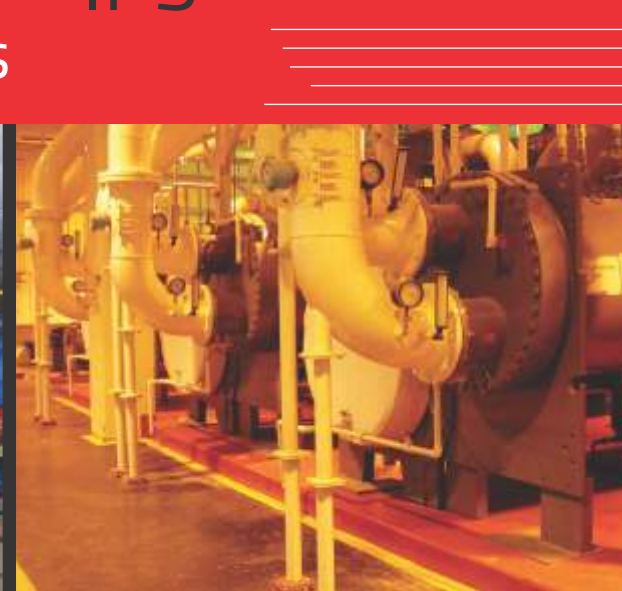
IPS

CORE has partnered with reputed International OEMs from around the world so that you have the most comprehensive range Capital and Electro Mechanical Equipments, Machineries, Electrical & Instrumentation products in India. Each OEM is a leader in its own segment and hence you can be assured that you will definitely find a product that meets your requirement and specifications.

We support our customers through an expert team of sales and factory trained service engineers, technicians and support staff. All the products we offer confirm to Highest Quality Standards and are energy efficient, Maintenance friendly with high consideration for Safety.

Industrial Productivity Solutions

IPS



Product	Category	Type
COMPRESSOR	Air Compressor	Reciprocating Compressor
		Screw Compressor
		Centrifugal Compressor
		Diaphragm Compressor
	CNG Compressor	Reciprocating CNG Package Compressor
	Air & Gas Compressors	High Pressure Compressors
	Pet Compressor	High Pressure Compressor for PET Application
	Gas Compressors	Gas Compressors for Helium, Ammonia, Propylene, Hydrocarbons, LPG etc.
	Refrigeration Compressor	Reciprocating, Screw, Centrifugal
COMPRESSOR ACCESSORIES	Liquid Ring Compressor	Helium, Flare Gas, Methane Gas, Well Head Gas Recovery & Boosting, Compression of Hazardous or Corrosive mixture, Vapour Recovery.
	Portable Air Compressor	Diesel/Electric Driven Screw Compressor
	Marine Compressor	Screw and Scroll(oil injected and oil free)
PUMPS	Air Dryers	Refrigerated Air Dyer
	Air Receiver	Heatless, Desiccant type Air Dryer
		ASME Section VIII Div. I/II/III, IS 2825
	Filtration System	Oil Filters, Air Filters, Gas Filters
	Water Pumps	Domestic, HVAC, Flushing, Hydropneumatic, Cooling Water Circulation, Water Transportation, Water Treatment, Water Supply Irrigation
		API Centrifugal Horizontal Pump
	Process Pumps	Canned Motor Pumps
		ISO Centrifugal Horizontal Pump
		Axially Split Pump
		Multistage Pumps
Vertical Turbine Pump		
Vertical Sump Pump		
Nuclear Pumps		
Self-Priming Pump		
Fire Pumps	UL Listed & FM Approved as per NFPA 20 Fire Pump	
	Non-UL Listed & FM Approved as per NFPA 20 Fire Pump	
Nuclear Pumps	Steam Generator, Reactor Feed Water, Reactor Coolant, Primary Coolant, Recirculation, Waste Water, Fuel Pool, Containment	



Product	Category	Type
VACUUM PUMPS	Vacuum Pumps	Rotary Screw, Lobe, Scroll, Rotary Vane, Dry Vacuum
METERING & DOSING PUMPS	Metering & Dosing Pumps	Gas Odourisation, Remote Head, Chemical Dosing, Metering, Process, Rotary, Centrifugal
HEAT EXCHANGER	Plate Heat Exchanger	Gasketed Plate Heat Exchangers
		Semi-Welded Plate Heat Exchangers
Fully-Welded Plate Heat Exchangers		
Brazed Plate Heat Exchangers		
	Shell & Tube Heat Exchanger	Process Cooling, Condensor Evaporator, Heating & Cooling of Fluids & Gases
HVAC	Chillers	Centrifugal Chillers
		Screw Chillers
		Scroll Chillers
	Air Conditioning	DX System
		Roof Top Machines
		Ductable Split Units
		High Wall Units
		Fan Coil Units
		AHU
		VRV
Cassette Units		
BLOWERS	Blowers	Lobe Blowers
		Screw Blowers
		Centrifugal Blowers
MATERIAL HANDLING	Material Handling Tools	Hoists
		Rail Systems
		Beam Damps
		JIB Cranes
	Marine Loading Arm	FBMA (Fully Balanced Marine Loading Arm), RCMA (Rotary Counterweighted Marine Arm), DCMA (Double Counterweight Marine Arm), MLA for Cryogenic Services, PMS (Position Monitoring System).
	Pneumatic Tools and Fluid Handling Equipments	Grinders
		Sanders
		Polishers
		Buffers
		AODD Pumps



Product	Category	Type
VALVES	Control Valves & Fittings	Butterfly Valves
		Check Valves
		Couplings & Fittings
		Expansion Joints
	Control Valves	Motorised, Pneumatic, Diaphragm Operated
	Valves	Butterfly, Gate, Globe, Ball, Knife, Check, SRV, Check
	Fire Fighting Valves	UL FM Approved Deluge, Alarm Valves
	Bellow Seal Valves	Forged and welded bellow gate and globe valves.
PIPE FITTINGS	Victualic Coupling & Fittings	Grooved Fittings, SS Hoses, Grooved Couplings, Grooved Valves, Strainer
NUCLEAR AND ROBOTICS	Electrical Penetration Assemblies (EPAs)	HT, LT, Instrumentation, Severe Accident Cable
	Robotics and Manipulator Arms	Manipulators, Telemanipulators, Telescopic Manipulator, Telescopic Master Slave Manipulator, ROV
	Underwater & Radiation Resistant Cameras	High Radiation ,Compact System, Shielded System
ELECTRICAL EQUIPMENTS	HT Transformers	Shell Type, Core Type
	Motors	LT & HT Motors
	Cables	HV, LV Power Cables, Control and Instrumentation Cables.
SURFACE TREATMENT AND PROTECTION	Adhesives, Sealants, Coatings	Anaerobic
	Fire-Proof Coatings and Heat Resistant Coatings, Epoxy Coatings	Industrial Application
TANK ACCESSORIES	Flame & Lightning Arrestors	Breather Valve, Flame Arrestor, Lightning Arrestor
	Tank Mounted Accessories	Floating Suction Units, Floating Skimmer System, Floating Roof Tank Equipment, Valves for Cryogenic Tanks, Gauging and Sampling Equipments.
AGITATORS AND MIXERS	Industrial Mixing Solutions	Industrial Agitators, Side Entry Industrial Agitators, Industrial Mixer, Large Tank Mixer, Portable Mixer.
RETROFITS SOLUTION	Spares	Retrofit Spares/Pumps-Turbines, Compressor





IES

CORE specializes in providing wide range of Facility management solutions covering Utilities, Processes, Mechanical, Electrical & Instrumentation plant.

CORE's IES vertical specialize in creating an efficient workplace that adds value to our client's business. We help reduce occupancy costs & improve efficiency by implementing & managing processes that yield tangible results. Through a range of services - from Operations & maintenance to energy management, we provide our clients with total Facilities Management.

Industrial Engineering Services IES

Operation & Maintenance

- Utility Plants
- Process Machinery & Equipments
- CNG Fuelling Stations
- Material Handling, Loading & Unloading of Solid, Liquid, Gas
- Pumping Systems
- Waste & Effluent Treatment Plant
- Tank Farm & Jetty Operations
- HVAC System
- Switchyard & Electrical SubStation

Shutdown Maintenance

- Nuclear
- Oil & Gas
- Petrochemicals
- Fertilisers

Manpower Supply

- Qualified Engineers and Mangers- Civil, Electrical, Instrumentation, Mechanical
- Safety Supervision
- Technical Domain Experts
- Industrial technicians
- Support Staff

Equipment Overhauls

- Rotary Equipments
- Reciprocating Equipments
- Gas & Steam Turbines





Nuclear Engineering Solutions NES

- Reactor Physics Assessment
- Radiological Protection
- Fuel Performance Assessment
- Remote Handling & Robotics
- Radiation Resistant Camera
- Electrical Penetration Assembly
- Nuclear waste & Environment Services



NES

This vertical was formed in collaboration with a technology Partner in the year 2010, with an objective of providing complete services for the Nuclear Industry from New Build up to Decommissioning.

In association with our partner we offer the capability for providing the entire range of nuclear services from site management through to waste management and decommissioning services.



Projects

Helium Liquid Ring Compressors

Location

- Kakrapar Atomic Power Station, Gujarat
- Rajasthan Atomic Power Station, Rajasthan

Description: NPCIL's Project involved Designing, Manufacturing, Testing, Supervising Erection and Commissioning and Seismic Analysis of 12 Helium Liquid Ring Compressors.

Instrument Air Compression System

Location

Rajasthan Atomic Power Station, Rajasthan

Description: Design, Detailed Engineering, Seismic Analysis, Manufacturing, Inspection of 8 compressor plants (including interconnecting pipes and spares) for NPCIL Common Service Package of RAPP-7 & 8.

Vapor Compression Chiller Package

Location

- Kakrapar Atomic Power Station, Gujarat
- Rajasthan Atomic Power Station, Rajasthan

Description: Design, Manufacture, Inspect, Test Rotary Screw Type Water Cooled Vapor Compression Chillers for NPCIL Common Service Package for KAPP-3 & 4 & RAPP-7 & 8.

Emergency Core Cooling System Compressor Package

Location

- Kakrapar Atomic Power Station, Gujarat
- Rajasthan Atomic Power Station, Rajasthan

Description: Design, Manufacture, Inspect, Test 4 ECCS Compressors for NPCIL's Primary Piping Package for KAPP-3 & 4 & RAPP-7 & 8.

Centrifugal and Vertical Pump Package

Location

Kakrapar Atomic Power Station, Gujarat

Description: Design, Manufacture, Inspect Horizontal Centrifugal and Vertical Sump Pumps for NPCIL UGP & WMP Package for KAPP-3 & 4.

Eldan Tyre Recycling Plant

Location

Silvassa, Gujarat

Description: Project Management, Erection, Installation, Commissioning and Testing of ELDAN Tyre Recycling Plant.

Clients



Business Associates



Awards

We have been rated amongst India's Top 100 SMEs for 2 consecutive years. We twice won the prestigious SME Achievers award (2012 and 2013) which is awarded by India SME Forum in collaboration with Government of India & Ministry of Micro Small Medium enterprises.

We are proud recipient of Leading SME of India 2015 award by DNB.

D & B SME Excellence award 2016.



Recognition and Certification

