



Excelsource

International Private Limited

Technology :: Innovation :: EPC



Industry Verticals

- ▶ Mining & Mineral Processing Industries
- ▶ Edible Oil Refineries
- ▶ Bio-Diesel
- ▶ Waste to Energy
- ▶ Foods and Beverages Industries

Cross Industries

- Energy Audit
- Plant Capacity Debottlenecking
- HVAC Solutions
- Chilled Water Vacuum System
- Plant Automation with IOT



ABOUT COMPANY



Established in 2003, Excelsource International Private Ltd. (EIPL) offers complete turnkey Solutions to engineering goods, plants and machineries, consumable items, hospitality industry and project management to our clients across the globe. What began as a Sourcing Solutions provider went on to be reckoned as an extension of our clientele to address their complete requirements and offer end-to-end solutions.

A team that believes in letting the actions do the talking, we at EIPL have a talent pool from different walks of life, comprising engineers, consultants and top-notch procurement personnel. This diversity and rich experience of our team helps us understand our client's requirements better and offer them the right solution at the right time.

At EIPL, an expertise of such caliber has elevated us to the echelons of collaborators of our worldwide clientele for all their Projects, Consumables, Raw Materials for the plant, as well as emergency purchases required for their plant. Our commitment to excellence has earned us the pride of place in the hearts of our esteemed clients in Tanzania, Zambia, DR Congo, Kenya, Ghana, Uganda, Dubai, China and South Africa, to name a few.



- Greizzly Feeders, Screens
- Jaw Crusher, Cone Crusher
- Ball Mill
- Hydrocyclones and related Pumps and Accessories
- Belt Conveyers
- Dryers (Spin Flash, Peddle)
- Thickener
- Counter Current Decanter (CCD)
- Horizontal Belt Filters (HBF)
- Filter Press (Fully & Partially Automated)
- Agitators
- Electro winning Plants - Full Scale Plants, which Includes Poly Cells, Cathodes, Anodes, Rectifiers, Busbars, Cell top furniture, Shorting frame, EOT Crane, Lifting Bale, Cathode Stripping Machine
- Steam Boiler, Scrubber, Water Treatment plant, Cooling towers, Packing and Bagging Systems

HVAC Solutions

Sr. No.	Product	Location	Application	Type of Unit	Variants	Advantages	
1	AMS III (Mini VRF)	Home, Flats, Bungalows, Villas, Shops, Stores, Office, Showrooms, Cars, Bikes Other Open Spaces, Hospitals, Hotels,	Residential, Commercial	Split, Cassette, Concealed, AMS III (Mini VRF)	3 HP, 4 HP, 4.5 HP, 5 HP, 6 HP	Complete Inverter, Low Maintenance, Low Electricity, Hot & Cold, Soft Copper Pipes, Star Network	
2	TRANE LCU - DUCTABLE	Malls & Multiplex, Hospitals, Hotels, Big Offices, Open Spaces	Commercial, Industrial	Ductable Units- High Static	5 TR, 8.33 TR, 10 TR, 15 TR, 20 TR	High Static Machine, Auto Cut off during-voltage fluctuations, Industrial Grade make, Sturdy, Long life, Effective cooling in large spaces	
3	TVR II - VRF / GENYUI-VRF	Large Offices, Hotels, Offices, Hospitals	Commercial, Up to 100 TR	Split, Cassette, Concealed, Ductable	8 HP, 10 HP, 12 HP, 14 HP, 16 HP, 18 HP, 20 HP-Max Curcit of 80 HP	Complete Inverter, Low Maintenance, Low Electricity, Hot & Cold, Soft Copper Pipes, Star Network	
4	TRANE Rooftop	Showroom, Jewellery, Luxury, Industries	Commercial, Industrial	Ductable Units- High Static	From 5 TR to 300 TR	Packaged Unit, Saves Space, High Static Machine, Auto Cut off during-Voltage fluctuations, Industrial Grade make, Sturdy, Long life, Effective cooling in large spaces	
5	Water Cooled Ductable	All with different Shop Owners, Industries, Industrial Plants	Commercial, Industrial	Ductable Units- High Static	From 1 TR to 100 TR	Water based cooling, Highly energy efficient, Latest Technology, Space Saving, Low Capital Cost	
6	TRANE Chillers	Industries, Industrial Plant	100 to 1000 TR	Split, Cassette, Concealed, Ductable	8 HP, 10 HP, 12 HP, 14 HP, 16 HP, 18 HP, 20 HP-Max Curcit of 80 HP	Inverter Based VRF, Long life, Long Piping, Electrical Savings, Low Maintenance,	

- We provide Turnkey Projects on the HVAC Segment using the TRANE Products which Includes Advanced Multi Split (AMS III), Chiller based, and VRF Systems.
- We provide Ductable, Concealed, Cassette, Hi-Wall, Floor Mount, Ceiling Mount etc Indoor Units as per client's Needs.
- We also do Ducting Assignment based on Client's Needs.
- We also work on Energy Audit Assignments of the Existing HVAC Systems of the Clients, and Suggest the remedial Solutions as per current Market trends.
- We take Turnkey Assignments for the Overseas Clients also.



Food & Beverages, Dairy Industries Solutions

Food & Dairy Industries

- Milk & It's by-Product
- Lactose / Whey
- Milk Powder & Baby Food
- Sweetened Condensed Milk
- Fermented / Frozen Products
- Fruit Juices



Concentration & Drying System

System

- Evaporation
- Drying
- Fluid Beds
- Calcination
- Roasters

Industries

- Tea & Coffee / Egg
- Detergents / Dyes
- Pharma / Distillery
- Chemicals / Resins
- Paper / Polymers
- Starch / Ceramics



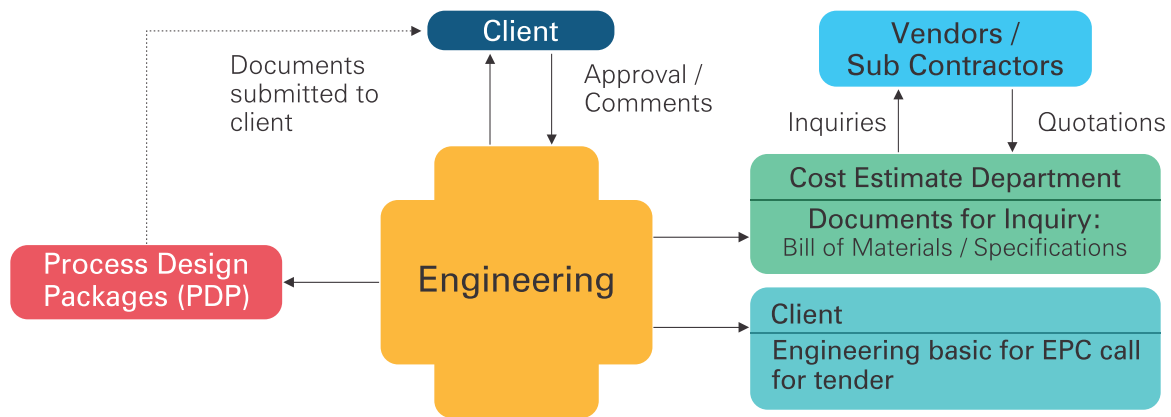
Pollution Control & Waste Management

- Thermal oxidizers / Incinerators
- Evaporators & Dry / Wet Scrubbers
- De-sulphurization for Flue Gas
- Zero Discharge Effluent Treatment





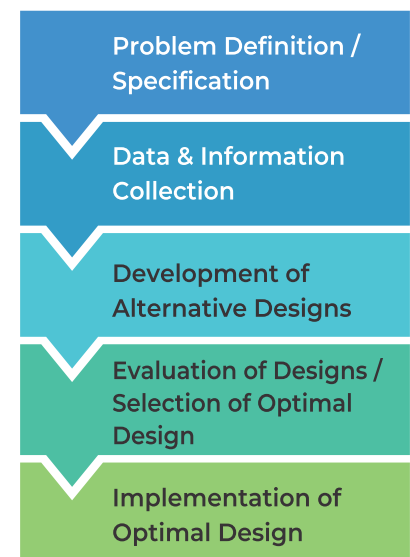
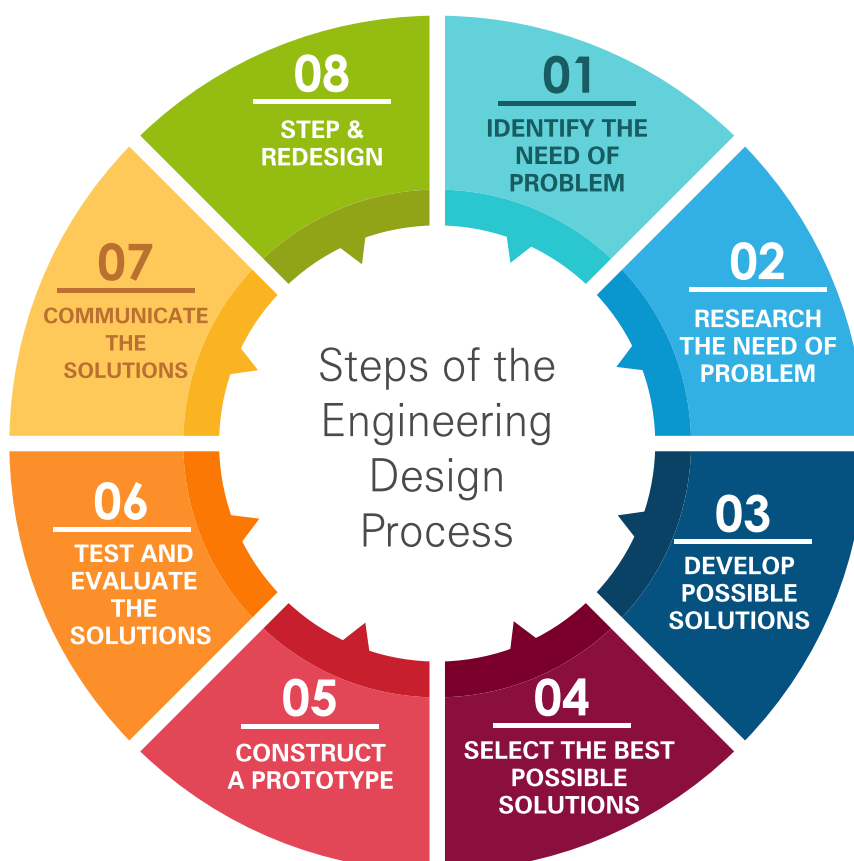
Design, Engineering & Turnkey Assignments



We under take plant basic engineering package (BEP) and front end engineering documentation loading (FEED) which includes following:

- Master documents list
- Process and Flow diagrams
- Process and instrumentation diagrams
- Heat and mass balance
- Equipment data sheet
- Process and control philosophy
- Electrical load list and generation of Single line diagram
- Instrumentation index and data sheet
- Utility balance and its specification sheet

Steps of the Engineering Design Process



Detail designing of project which include

- Layout development
- Civil and structural engineering
- Mechanical design and engineering
- Utility design and engineering
- Electrical and instrumentation design and engineering



Engineering Solutions for Edible Oil Refineries



► Concept to commissioning of setting up green field refinery



► Turnkey Projects including Design & Engineering



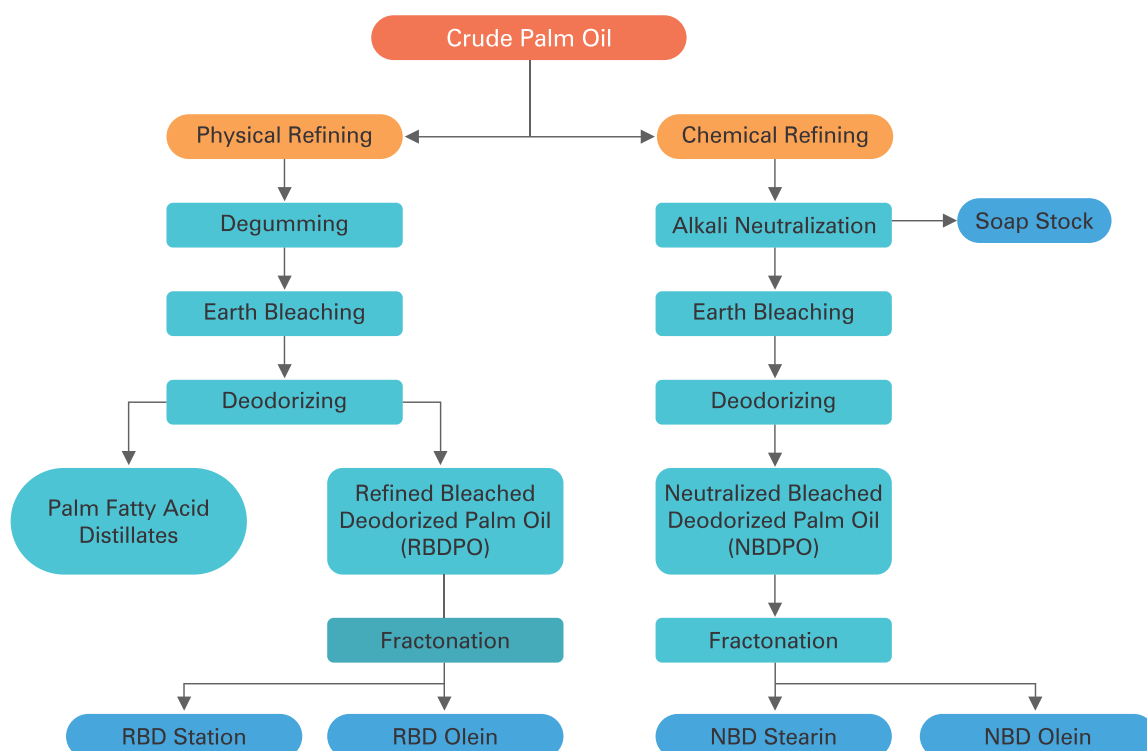
► Energy / Plant Audit

- Visit Plant
- Form team comprising of technical & commercial member
- Understand the problems
- Gather necessary information and data
- Study the data
- Propose right solutions



► Capacity Debottlenecking

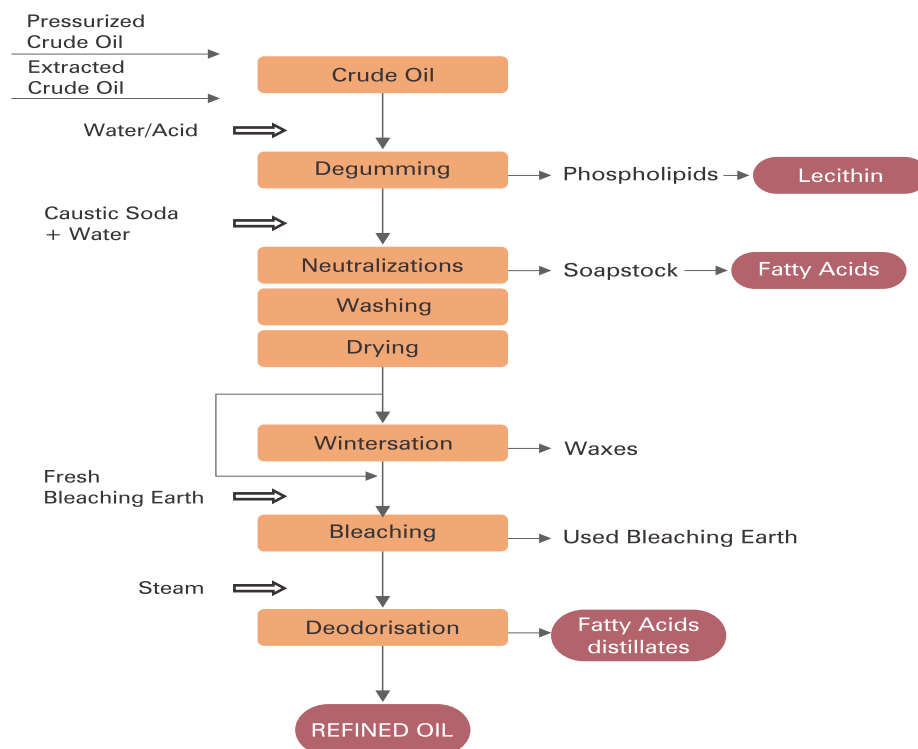
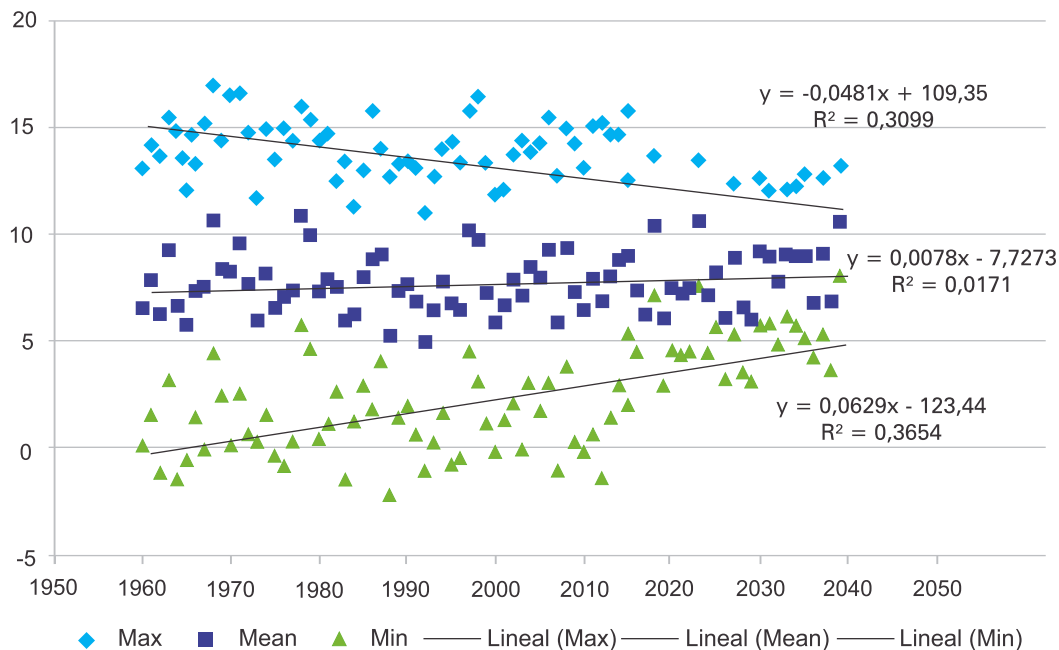
- Study the plan current operation
- Figure out the bottleneck by studying the plant operation parameter
- Suggest the area for improvement (Low hanging fruits, immediate action plan)
- Develop engineering package for increasing plant capacities without major investment





Chemical Consumption Optimization

- In edible oil refinery Phosphoric acid, caustic lye and bleaching earth is mainly used.
- Review of current chemical consumption with respect to input crude oil quality
- Algorithm approach is applied to optimized chemical consumption
- Conversion of conventional acid degumming to enzymatic degumming

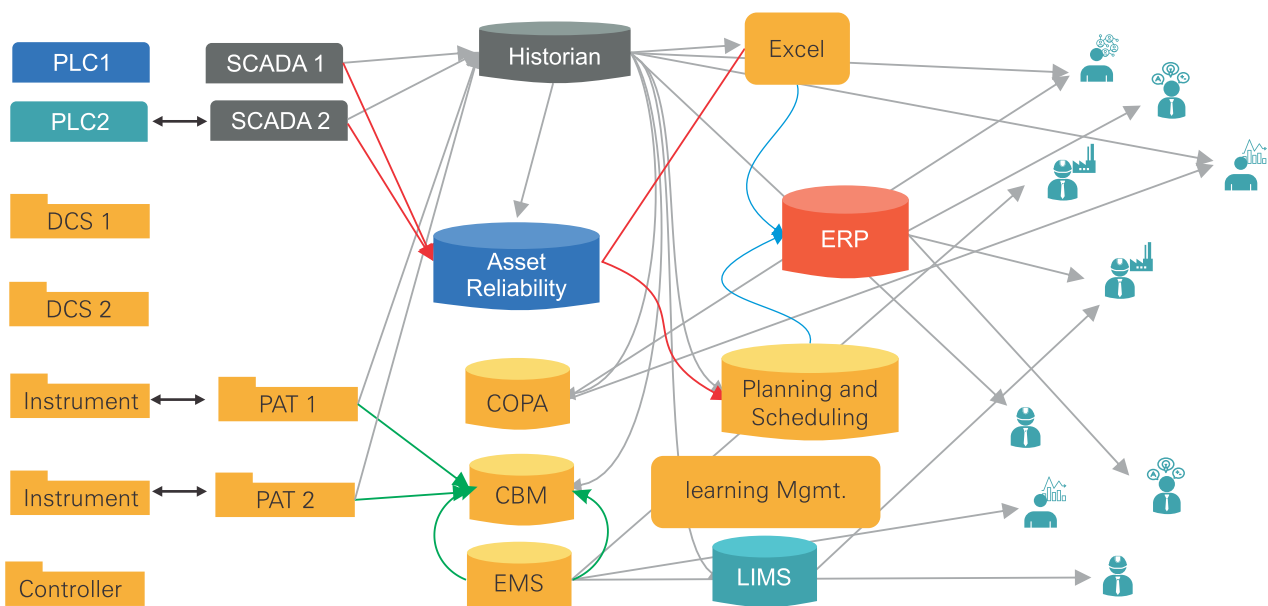
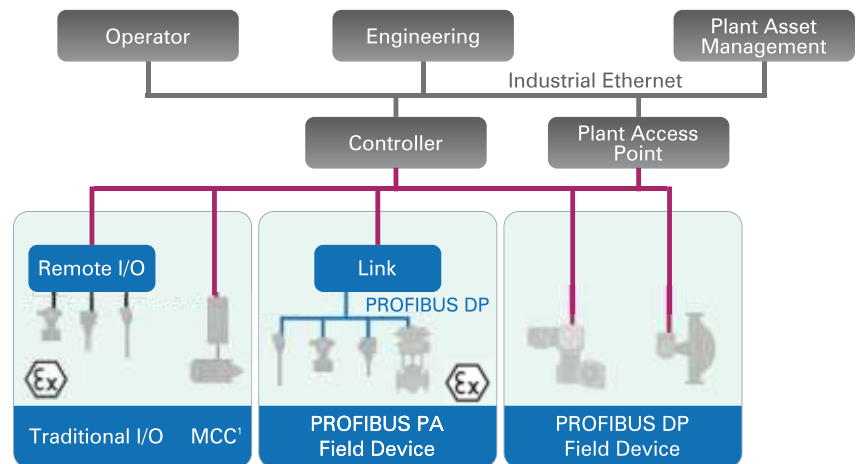




Plant automation with IOT & Process Integration System

We provide complete plant automation solution

Integrate plant automation system to independent platform, use this information to generate graphs which will help to analyze the plant performance with respect to standard consumption, plant efficiency, operational difficulties etc. Based on this information plant operational efficiency can be optimized.



Digital Transformation is the key to smarter ways of doing business. It's about speed, agility and efficiency that drive new and better customer experiences. All while maximizing value creation across asset and operations lifecycles to improve profitability and maximize return on capital.



There is a tremendous new force in industry - Digital Technology including:

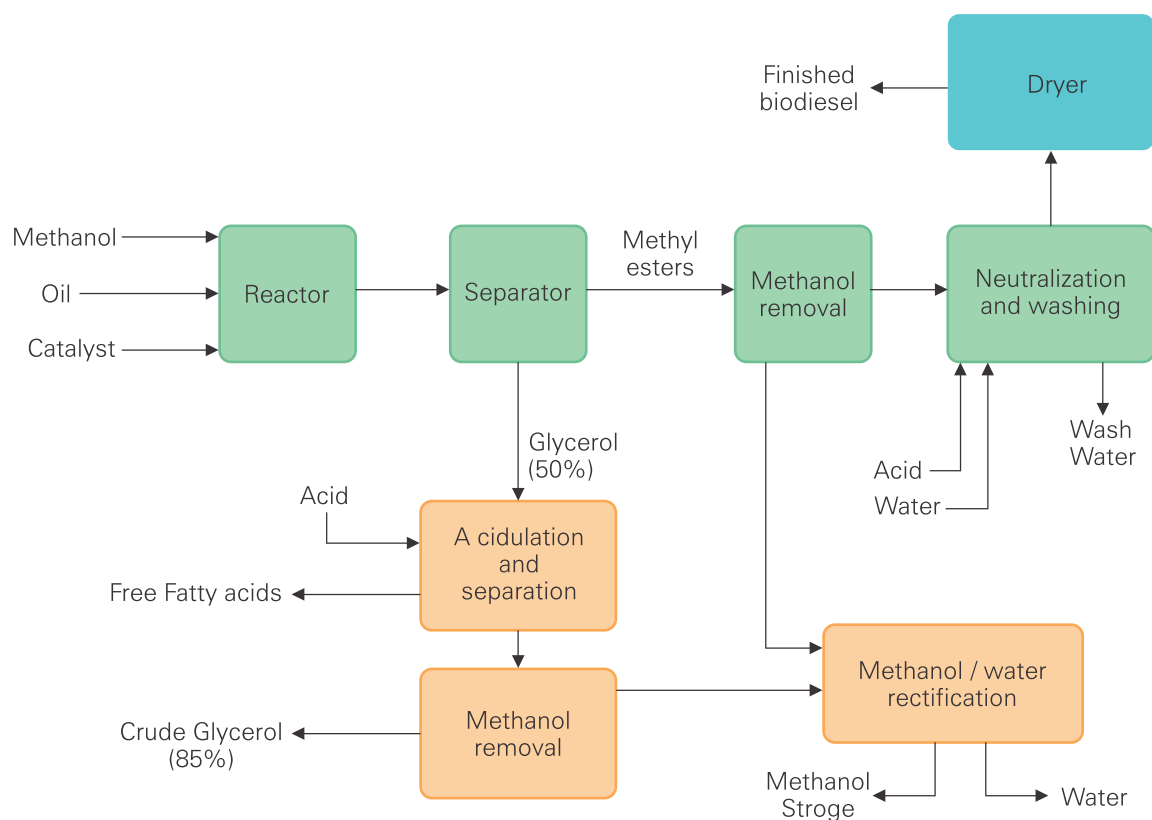
- Cloud-based Technology
- Industrial Internet of Things
- Artificial Intelligence
- Augmented and Virtual Reality
- This provides an opportunity for businesses to maintain a competitive edge.



Bio - Diesel

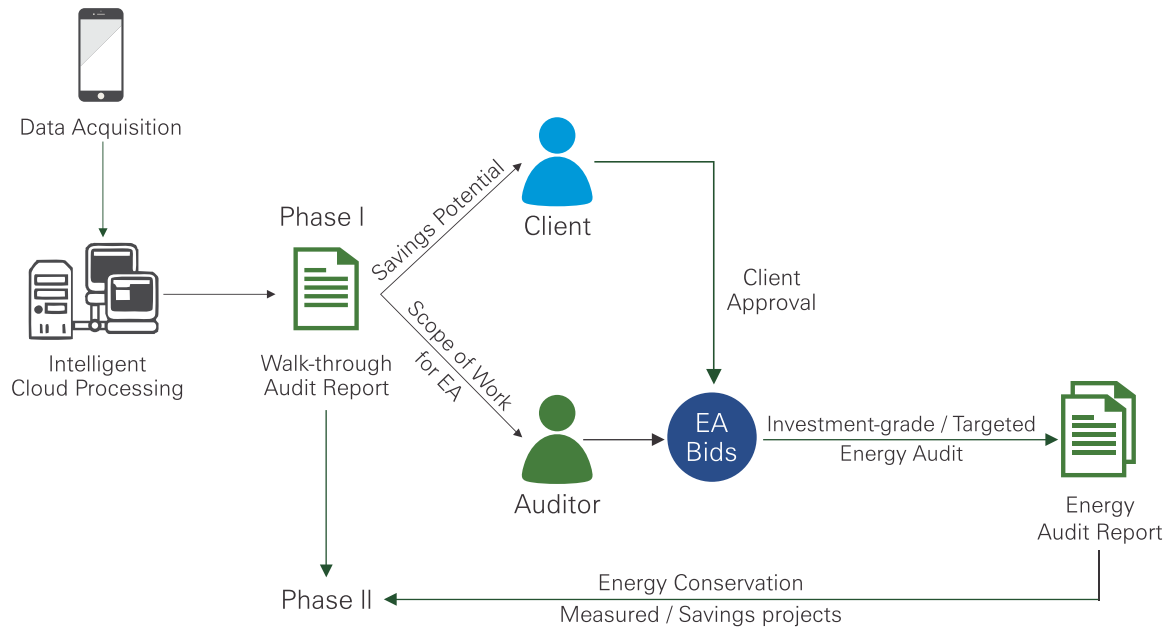


We work on the Enzymatic and conventional Bio-Diesel Production Technology. The technology is selected based on raw material to be used to produce bio diesel. Prima facie raw material used to produce bio-diesel is by product from edible oil refining such as acid oil, fatty acid distillate, Tank bottom sludge etc...



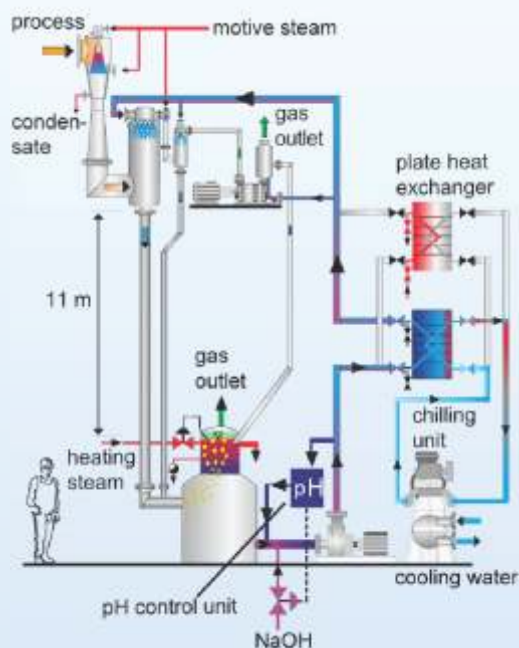


Energy Audit, Energy Efficiency & Heat Recovery Solutions



- Walk through audits and its findings including recommendations
- Detail audits and its findings including recommendations
- Conduct pinch analysis to find gap and suggest improved heat profile to optimize the energy consumption
- Find out low grade heat in the setup, offer solutions to utilize the low grade heat by using ORC or chilled water generation or heating building using hot water

New Generation Vacuum Systems



- Conduct feasibility study of current vacuum system with respect to operation and energy consumption
- Provide new generation vacuum system which will have following advantage
- Reduced energy consumption
- Reduced steam requirement
- Eliminate operation of contamination cooling tower
- Consistent vacuum throughout the year (Independent of seasonal effect)

Waste to Energy

- EPC of Bio-Gas Projects
- Biodegradable Waste to Energy
- Electrical and Thermal Energy
- Bio-Gas Up gradation (Bio-CNG & Bio-CO₂)
- Organic Fertilizers



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