



MECHOTECH

Engineering Excellence in Extraction & Process Plant Solutions

DESIGN • MANUFACTURE • INSTALL • COMMISSION • SUPPORT



Leading the Future of **Extraction & Distillation** Plant Manufacturing

ENGINEERING EXCELLENCE • INNOVATION • QUALITY • RELIABILITY

FROM CONCEPT TO COMMISSIONING

Delivering World-Class Process Plants for Global Industries



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Your Trusted Global Partner for
Complete Turnkey Process Plant Solutions

COMPANY PROFILE



MECH O TECH

Engineering Excellence in Extraction & Process Plant Solutions

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MECH O TECH LLP is one of India's leading manufacturers of advanced Extraction, Distillation, Evaporation, Drying and Complete Turnkey Process Plants for the Nutraceutical, Pharmaceutical, Herbal, Botanical, Food Processing, Spice, Essential Oil, Chemical and Natural Products Industries.

With over **30 years** of engineering excellence, we specialize in designing and manufacturing customized process plants that combine innovative technology, superior engineering, energy efficiency and international quality standards. Our objective is to provide customers with reliable, high-performance systems that maximize extraction yield, reduce operating costs and deliver long-term value.

From laboratory-scale units to large commercial production facilities, MECH O TECH LLP offers complete Concept-to-Commissioning solutions under one roof. Every project is engineered according to the customer's product characteristics, production capacity, process requirements and applicable international regulations.



OUR EXPERTISE

We provide complete turnkey solutions for:

- ✓ Herbal Extraction Plants
- ✓ Nutraceutical Extraction Plants
- ✓ Phytochemical Extraction Plants
- ✓ Botanical Extraction Plants
- ✓ Oleoresin Extraction Plants
- ✓ Essential Oil Distillation Plants
- ✓ Natural Colour Extraction Plants
- ✓ Solvent Recovery Systems
- ✓ Evaporation & Concentration Systems
- ✓ Drying Systems
- ✓ Complete GMP Processing Plants



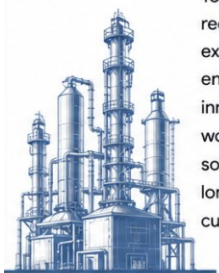
OUR STRENGTHS

Our key strengths include:

- ✓ Over 30 years of engineering experience
- ✓ Customized turnkey project execution
- ✓ In-house design and manufacturing
- ✓ GMP-compliant equipment design
- ✓ Stainless Steel (SS304/SS316/SS316L) fabrication
- ✓ Modern manufacturing infrastructure
- ✓ Experienced engineering and commissioning team
- ✓ PLC & SCADA automation solutions
- ✓ International quality standards
- ✓ Complete documentation and validation support
- ✓ Fast project execution
- ✓ Reliable after-sales service
- ✓ Global export capability



OUR VISION



To become a globally recognized leader in extraction and process engineering by delivering innovative, sustainable and world-class manufacturing solutions that create long-term value for customers worldwide.



OUR MISSION



Deliver high-quality engineering solutions that exceed customer expectations.



Continuously innovate through advanced process technologies.



Build long-term partnerships based on trust, quality and performance.



Provide complete customer satisfaction through timely delivery, technical excellence and outstanding after-sales support.



Promote sustainable manufacturing practices with energy-efficient and environmentally responsible designs.



OUR COMMITMENT

- At MECH O TECH LLP, every project is driven by engineering precision, uncompromising quality and customer success.
- We believe that our responsibility extends beyond supplying equipment—we become a long-term technology partner, supporting our clients from concept development through commissioning, validation and ongoing technical assistance.

PRODUCT PORTFOLIO

COMPLETE TURNKEY PROCESS PLANT SOLUTIONS

MECH O TECH LLP provides complete engineering, manufacturing, installation, automation, commissioning and validation support for a wide range of extraction and process plants. Every system is designed to maximize productivity, improve extraction efficiency, reduce operating costs and ensure compliance with international quality standards.



OUR PRODUCT RANGE

HERBAL EXTRACTION PLANTS



Advanced solvent extraction systems for processing medicinal herbs, roots, leaves, flowers, seeds and bark using water, ethanol and hydro-alcoholic solvents.

APPLICATIONS

- Ashwagandha ● Brahmi
- Shatavari ● Moringa
- Aloe Vera ● Giloy
- Tulsi ● Amla ● Neem
- Hundreds of medicinal herbs

NEUTRACEUTICAL EXTRACTION PLANTS



Customized plants for manufacturing standardized botanical extracts used in dietary supplements, functional foods and health products.

SUITABLE FOR

- Curcumin ● Boswellia
- Garcinia ● Green Tea Extract
- Ginseng ● Spirulina
- Plant Proteins ● Polyphenols
- Natural Antioxidants

PHYTOCHEMICAL EXTRACTION PLANTS



Engineered systems for isolating high-value bio active compounds with superior purity and yield.

EXAMPLES

- Alkaloids ● Flavonoids
- Glycosides ● Polyphenols
- Tannins ● Saponins
- Natural Pigments
- Active Pharmaceutical Ingredients (APIs)

OLEORESIN EXTRACTION PLANTS



High-efficiency extraction systems for producing premium-quality spice oleoresins.

APPLICATIONS

- Turmeric ● Black Pepper
- Capsicum ● Ginger
- Cardamom ● Cinnamon
- Clove ● Cumin
- Coriander ● Nutmeg

ESSENTIAL OIL DISTILLATION PLANTS



Steam, hydro, vacuum and pressure distillation systems designed for maximum oil recovery while preserving aroma and quality.

SUITABLE FOR

- Lemongrass ● Eucalyptus
- Lavender ● Rose
- Jasmine ● Sandalwood
- Mint ● Citronella
- Basil ● Vetiver

NATURAL COLOUR EXTRACTION PLANTS



Complete process plants for extracting natural colours from botanical sources.

APPLICATIONS

- Curcumin ● Paprika
- Beetroot ● Annatto
- Chlorophyll ● Spirulina Blue
- Butterfly Pea
- Caramel Colour

SOLVENT RECOVERY SYSTEMS



Energy-efficient solvent recovery units designed to minimize solvent loss, reduce operating costs and support environmentally responsible manufacturing.

FEATURES

- High recovery efficiency
- Reduced emissions
- Low energy consumption
- Automatic operation
- Safe process design

EVAPORATION & CONCENTRATION SYSTEMS



High-performance evaporation systems for concentration of herbal extracts and process liquids.

AVAILABLE OPTIONS

- Falling Film Evaporators
- Forced Circulation Evaporators
- Vacuum Evaporators
- Multiple Effect Evaporators (MEE)

DRYING SYSTEMS



Efficient drying technologies designed to preserve product quality and improve shelf life.

AVAILABLE SYSTEMS

- Spray Dryers
- Vacuum Tray Dryers
- Fluid Bed Dryers
- Rotary Dryers
- Belt Dryers

COMPLETE TURNKEY SOLUTIONS

MECH O TECH LLP provides comprehensive project execution, including:

- Process Design & Engineering
- Pilot Trials & Scale-Up
- Plant Layout & 3D Engineering
- Equipment Manufacturing
- PLC & SCADA Automation
- Utilities Integration
- Installation & Commissioning
- Validation Support
- Operator Training
- Annual Maintenance Contracts (AMC)
- Spare Parts & Technical Support



“
MECH O TECH LLP delivers complete process solutions that combine **innovation, precision engineering and long-term reliability**, helping customers achieve **superior productivity and sustainable growth**.
”



INDUSTRIES WE SERVE

COMPREHENSIVE PROCESS SOLUTIONS FOR DIVERSE INDUSTRIES

MECH O TECH LLP delivers advanced process engineering solutions to a wide range of industries worldwide. Our extraction, distillation, evaporation, drying, and solvent recovery plants are designed to meet the unique processing requirements of each industry while ensuring maximum productivity, product quality, regulatory compliance, and operational efficiency.

With extensive experience across multiple sectors, we help manufacturers enhance production capacity, improve product consistency, reduce operating costs, and achieve sustainable growth.



Nutraceutical Industry



We provide complete turnkey plants for manufacturing nutraceutical ingredients, botanical extracts, plant proteins, and functional food ingredients.

APPLICATIONS

- Curcumin ● Garcinia Extract
- Green Tea Extract
- Ashwagandha Extract
- Boswellia Extract ● Spirulina
- Moringa ● Plant Protein Extracts
- Natural Antioxidants
- Polyphenols



Pharmaceutical Industry



Our GMP-compliant extraction systems are designed for manufacturing pharmaceutical intermediates, APIs, herbal medicines, and standardized botanical extracts.

APPLICATIONS

- Active Pharmaceutical Ingredients
- Herbal Medicines
- Standardized Extracts
- Phytochemicals
- Pharmaceutical Solvents
- Medicinal Plant Processing



Ayurvedic & Herbal Industry



We manufacture complete extraction systems for processing medicinal herbs into high-quality extracts for Ayurvedic formulations and herbal healthcare products.

COMMON RAW MATERIALS

- Tulsi ● Shatavari
- Giloy ● Aloe Vera
- Neem ● Ashwagandha
- Brahmi ● Mulethi
- Amla ● Guduchi



Food & Beverage Industry



Our hygienic process plants support manufacturers of food ingredients, natural additives, flavours, colours, and functional beverages.

APPLICATIONS

- Fruit Extracts
- Vegetable Extracts
- Food Concentrates
- Natural Sweeteners
- Functional Ingredients
- Beverage Ingredients
- Nutritional Supplements



Spice Processing Industry



We offer high-performance extraction plants for producing premium-quality spice oleoresins, essential oils, and natural flavour compounds.

SUITABLE FOR

- Turmeric ● Cinnamon
- Black Pepper ● Clove
- Ginger ● Nutmeg
- Capsicum ● Coriander
- Cardamom ● Cumin



ESSENTIAL OIL & AROMATIC INDUSTRY



Our advanced steam, hydro, vacuum, and pressure distillation systems are designed to preserve the purity, aroma, and therapeutic properties of essential oils.

APPLICATIONS

- Lemongrass Oil ● Peppermint Oil
- Eucalyptus Oil ● Basil Oil
- Lavender Oil ● Citronella Oil
- Rose Oil ● Vetiver Oil
- Jasmine Oil ● Sandalwood Oil



Natural Colour Industry



We provide specialized extraction plants for producing high-quality natural colours for the food, cosmetic, pharmaceutical, and nutraceutical industries.

PRODUCTS

- Curcumin ● Spirulina Blue
- Annatto ● Lycopene
- Chlorophyll ● Carotenoids
- Paprika Oleoresin
- Beetroot Extract
- Butterfly Pea Extract



Cosmetic & Personal Care Industry



Our extraction and distillation systems support manufacturers of herbal cosmetics, skincare, haircare, and personal care products.

APPLICATIONS

- Herbal Extracts
- Essential Oils
- Floral Waters
- Botanical Actives
- Natural Preservatives
- Cosmetic Ingredients



Chemical & Speciality Process Industry



MECH O TECH LLP also designs customized process plants for specialty chemicals, industrial solvents, and fine chemical applications.

SOLUTIONS INCLUDE

- Solvent Recovery Systems
- Distillation Columns
- Chemical Reactors
- Mixing Systems
- Storage & Transfer Systems
- Vacuum Systems



Whether you are establishing a new manufacturing facility or expanding an existing one, **MECH O TECH LLP** provides **complete engineering solutions** tailored to your process requirements. Our commitment to **innovation, quality, and customer satisfaction** makes us the preferred partner for industries seeking **reliable and efficient process plants** worldwide.

ENGINEERING & MANUFACTURING EXCELLENCE



MECH O TECH

Engineering Excellence in Extraction & Process Plant Solutions

DESIGN • MANUFACTURE • INSTALL • COMMISSION • SUPPORT

At MECH O TECH LLP, engineering is the foundation of every successful project. We combine decades of industry expertise with advanced design tools, precision manufacturing, and strict quality control to deliver reliable, energy-efficient, and high-performance process plants. Every solution is tailored to meet the customer's product requirements, production capacity, regulatory standards, and future expansion plans.

Our engineering philosophy focuses on maximizing process efficiency, minimizing operating costs, ensuring operator safety, and delivering consistent product quality throughout the plant's lifecycle.

-  **Process Engineering Excellence**
-  **Mechanical Design & 3D Engineering**
-  **Advanced Manufacturing Infrastructure**
-  **Automation & Process Control**
-  **Quality Assurance & Compliance**
-  **Installation, Commissioning & Validation**



Our Commitment to Innovation



**20+ YEARS
OF INDUSTRY
EXCELLENCE**



**CUSTOMIZED
ENGINEERING
SOLUTIONS**



**R&D AND SKILLED
ENGINEERING
TEAMWORK**



**ECO-FRIENDLY
PLANT
DESIGNS**



**ADVANCED
MACHINERY**



**HIGH QUALITY
& SAFETY
COMPLIANCE**



**ON TIME DELIVERY
FOR EVERY
PROJECT**



**RELIABLE AFTER
SALES
SOLUTIONS**

MECH O TECH LLP | Delivering Engineering Excellence Through Innovation, Precision, and Performance.

Extraction Plants

We offer 300+ specialized extraction solutions designed to meet the needs of various industries. Our plants are built for high efficiency, precision, and reliable performance, ensuring consistent product quality in every application.

Innovation & Engineering Excellence:

Innovation drives everything we do. Our extraction plants are designed using the latest technology to deliver maximum efficiency, durability, and long-term reliability. Backed by an experienced engineering team, we provide customized solutions tailored to your specific process and business requirements.

Our Expertise:

We manufacture a wide range of extraction systems for batch, rotary, and continuous processing, including:

- Herbal Extraction Plants
- Oleo Resin Extraction Plants
- Floral Extraction Plants (Concrete & Absolute)
- Natural Color Extraction Plants
- Protein Extraction Plants
- Gums & Resins Extraction Plants
- Phytochemical Extraction Plants
- Alkaloid Extraction Plants
- Nicotine Sulphate Extraction Plants



**Solvent
Extraction Plant**



**Herbal
Extraction Plant**



**Oleo Resin
Extraction
Plants**



**Floral Concrete &
Absolute
Extraction Plants**



**Gums & Resins
Extraction Plant**



**Shilajit
Extraction Plants**



**Natural Colour
Extraction Plants**



**Phytochemicals
Extraction Plant**



**Protein
Extraction Plants**

- ✓ Tailored Extraction Solutions
- ✓ Advanced Extraction Technology
- ✓ High-Quality Component Yield
- ✓ Customizable Plant Design
- ✓ Efficient Process Automation
- ✓ Durable & Reliable Equipment
- ✓ Versatile Extraction Methods

Distillation Plants

Mech O Tech's Distillation plants are precision-engineered to deliver pure, high-quality extracts from Aromatic crops, Spices, and Natural oils.

Experience superior efficiency and reliability in every process.



**Tulsi Oil
Distillation Plant**



**Small Scale essential oil
Distillation Plant**



**Agar Wood Oil
Distillation Plant**



**Sandal Wood Oil
Distillation Plant**



**Spice Oil
Distillation Plants**



**Floral
Distillation Plants**



**Curry Leaves
Distillation Plant**



**Rose Hydrosol
Distillation Plant**



**Frankincense
Distillation Plant**



**Myrrh
Distillation Plant**

At **MECH O TECH LLP**, our mission is to innovate and deliver top-tier extraction and distillation solutions that empower industries to achieve excellence. We are committed to quality, sustainability, and customer satisfaction through advanced technology and expert craftsmanship.



Distillation is the art of transforming nature's essence into pure, refined excellence.





Our Licenses And Certifications



#startupindia



Our Global Presence



● Office Locations

◆ Installation Locations

OFFICE LOCATIONS

India | USA | UAE | Singapore | UK | Germany

Thank you for considering **MECH O TECH LLP** as your partner in Extraction and Processing solutions. We look forward to the opportunity to serve you and contribute to the success of your endeavours.



Scan to know more



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