



URDHVAEGE®

INNOVATING ENGINEERING EXCELLENCE

TURNKEY SOLUTIONS

Engineering Solutions for Modern Process Manufacturing

Food & Spice

Pharma

Nutraceutical

Aquatic Feed

Pet Feed



THINK
WORK
HOME

Safe

ABOUT US



Urdhvaege - means the Rising Sun and Urdhvaege India is an Engineering driven turnkey solutions provider delivering high performance processing units with a strong emphasis on efficiency, hygienic design, and operational reliability.

Specializing in Design, Fabrication, Integration with Automation and Commissioning of complete plants using Indian-Manufactured, Industrial-grade machinery aligned with acceptable quality standards.

Engineering Capabilities:

End-to-End Turnkey Execution:

- » Process Design
- » Layout Engineering
- » Manufacturing
- » Installation
- » Commissioning

Process Optimization:

- » Material flow analysis
- » Energy-efficient systems
- » Loss minimization
- » Hygenic and Modular designs
- » Automation Integration

Why Urdhvaege India ?

- ✓ Engineering Precision
- ✓ Market Readiness
- ✓ Reliable Performance

Our Vision:

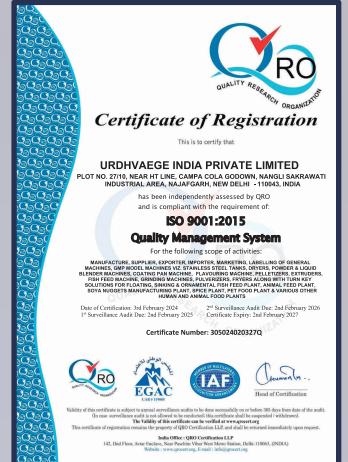
To become a preferred Engineering partner catering to processing needs of Manufacturers from various Industries by delivering Technically Superior, Market-Ready & Scalable Manufacturing units.

Our Mission:

To engineer and supply efficient, durable, and future-proof solutions that enhance productivity, profitability, and product consistency for our customers.

Our Commitment

At Urdhvaege India, We don't just supply machines — We build complete manufacturing ecosystems that enhance productivity, consistency and profitability for our clients.



What we offer

Turnkey Manufacturing Solutions	Process & Plant Engineering	After-Sales Support	Engineering Excellence
<ul style="list-style-type: none">» Complete execution from concept to commissioning» Single-point responsibility for plant setup» Customized solutions as per capacity & product	<ul style="list-style-type: none">» Process flow diagrams (PFD) & layout design» Single-point responsibility for plant setup» Customized solutions as per capacity & product	<ul style="list-style-type: none">» Technical support and preventive maintenance guidance» Spares and service availability» Long-term operational support	<ul style="list-style-type: none">» Robust Indian-manufactured machinery» Spares and service availability» Scalable and future-ready plant solutions

Nutraceutical & Herbal Processing

Food and Spice Processing



Cosmetic Processing



Industries we serve



Aquatic Feed Production



Animal & Pet Feed Manufacturing



Pharmaceutical & API Processing

INTEGRATED POWDER BLENDING SOLUTIONS



Urdhvaege India provides uniform integrated layout for powder blending purpose which is an critical process in food and pharmaceutical manufacturing, where uniformity, product integrity, and regulatory compliance are essential. Our Powder Blending Solutions are engineered to deliver reliable, repeatable, and contamination-free mixing for a wide range of powders, granules, and semi-dry materials.



AUTOMATION & PROCESS INTEGRATION

Our blending solutions can be seamlessly integrated with:

Automated weighing and batching systems
PLC & HMI-based control panels

POWDER BLENDING SOLUTIONS

- » Food Processing Industries
- » Nutraceutical Industries
- » Pharma Granulation Line
- » Building Material Industries
- » Chemical and Fertilizer Industries

Engineered for Uniform Blending

Our machines are designed with advanced mixing geometry to ensure homogeneous blending even at low inclusion levels. Optimized agitator design and controlled mixing speeds guarantee consistent distribution of ingredients, improving final product quality and batch-to-batch repeatability.

PROCESS FLOW

Bag Opening &
Weighing

Feeding Conveyor /
Pneumatic Transfer

Powder Blender

Discharge Bin

Vibro Sifter
(Optional)

Final Packing



Pharmaceutical Industry

- » API & excipient blending
- » Tablet & capsule pre-mixes
- » Dry syrups & nutraceutical formulations



Food Industry

- » Spice & seasoning blends
- » Bakery & premix powders
- » Nutraceuticals & protein powders
- » Beverage & instant food mixes

INDUSTRIAL ADVANTAGES

- » Robust and heavy-duty construction
- » Uniform mixing with minimal batch variation
- » Energy-efficient operation
- » Low maintenance & long service life
- » Scalable designs for future capacity expansion

COMPLETE POWDER BLENDING SOLUTIONS

From process design to machine manufacturing & system integration, We deliver end-to-end powder blending solutions tailored to your production needs. Delivering precision mixing for consistent quality — every batch, every time.

LIQUID BLENDING/ PASTE EMULSION SOLUTIONS

Urdhvaege India provides engineered liquid blending, emulsion/ paste manufacturing solutions for viscous and non viscous blends. Our systems are developed to meet the operational demands of food, pharmaceutical & cosmetic manufacturing facilities, combining robust mechanical design with process reliability and ease of maintenance.



Process Capability

- » Liquid-liquid mixing
- » Solid dispersion into liquids
- » Emulsification and Homogenization
- » Heating and cooling under controlled conditions
- » Batch and continuous processing operations

Each system is designed based on product characteristics, viscosity range, batch size and plant layout to ensure uniform mixing and repeatable batch quality.



Applications

Food & Nutraceuticals: Beverages, Syrups, Sauces, Liquid Supplements

Pharmaceuticals: Oral Liquids, Suspensions, Topical Formulations

Cosmetics & Personal Care: Creams, Lotions, Gels, Emulsions

Chemical and Fertilizers

Scope of Supply

Process Engineering	Equipment Manufacturing	Installation Support	Commissioning Assistance	Operator Training
Design & Construction	Mixing & Processing	Automation & Controls	Cleaning & Maintenance	
<ul style="list-style-type: none">» Product contact parts in SS304/SS316/SS316L	<ul style="list-style-type: none">» Liquid blending and mixing vessels	<ul style="list-style-type: none">» PLC-based control panels with HMI	<ul style="list-style-type: none">» CIP-compatible vessel and piping design	
<ul style="list-style-type: none">» Smooth internal surface finish to minimize product retention	<ul style="list-style-type: none">» High-shear mixers for emulsions & dispersions	<ul style="list-style-type: none">» Variable frequency drives (VFD) for speed control	<ul style="list-style-type: none">» Easy access for inspection and maintenance	
<ul style="list-style-type: none">» Hygienic welded construction with sanitary connections	<ul style="list-style-type: none">» Agitator assemblies (anchor, paddle, turbine, propeller)	<ul style="list-style-type: none">» Temperature, level and safety interlocks	<ul style="list-style-type: none">» Minimal dead zones for improved hygiene	
<ul style="list-style-type: none">» Top-mounted agitator arrangements	<ul style="list-style-type: none">» Sanitary pump systems for product transfer	<ul style="list-style-type: none">» Provision for SCADA integration	<ul style="list-style-type: none">» Designed for reduced downtime and efficient operation	 <p>A photograph of a small-scale liquid blending unit, similar to the one shown in the 'Applications' section, but with a more complex control system and a larger mixing bowl.</p>

SPICE POWDER MANUFACTURING PLANT

Urdhvaege India offers end-to-end solutions for setting up Spice Powder Manufacturing Plants suitable for Chilli, Turmeric, Coriander, Cumin, Pepper, & Blended Masala Powders.



TECHNICAL HIGHLIGHTS

- » Food-grade SS304 / SS316 construction
- » Low heat generation grinding technology
- » Energy efficient motors and blowers
- » Modular and expandable plant design

CAPACITY RANGE

- » 100 kg/hr to 3000 kg/hr (customizable as per customer requirement)

PROCESS FLOW

Raw Spice → Cleaning → Drying → Grinding → Sieving → Blending → Packing

Machinery Supplied

- » Raw Spice Cleaning System – Vibro Sifter, Rotary Sievers, Multi Deck Sifters
- » Spice Dryer – Tray Dryer / Belt Dryer
- » Spice Roasting – Continues Electrical Roaster/ Manual Pan Roaster
- » Grinding System – Impact Pulverizer / Hammer Mill
- » Pneumatic Conveying System – Blower, Cyclone, Pipeline
- » Sieving System – Vibro Sifter / Centrifugal Sifter
- » Blending System – Ribbon Blender / Paddle Mixer



Engineering Driven Turnkey Plant Solutions

- » Complete turnkey solutions
- » In-house engineering and fabrication
- » Proven installations across India
- » Reliable after-sales support



Urdhvaege India offers end-to-end solutions for Makhana (Foxnut) Roasting & Flavouring Plants, designed to deliver uniform Roasting, superior taste retention and consistent seasoning quality.

Our systems are engineered for commercial production, ensuring high efficiency, hygienic operation, and repeatable product quality, suitable for plain, salted, masala, cheese, peri-peri, and customized flavoured makhana.

Key Advantages

- » Uniform roasting and flavour distribution
- » Hygienic food-grade construction (SS304 contact parts)
- » Energy-efficient design
- » Low product breakage
- » Easy operation and maintenance
- » Suitable for small, medium and large-scale production



Capacity Range

Small Scale: 50–100 **Medium Scale: 200–300 kg/hr** **Industrial Scale: 500 kg/hr & above**

MAKHANA MANUFACTURING PROCESS



Machinery Supplied

Feeding System	Makhana Roaster	Oil & Seasoning Dosing	Flavouring/Coating Drum	Cooling & Discharge Section
Controlled & uniform feeding of makhana into the roasting unit <ul style="list-style-type: none"> » Designed to prevent breakage and dust generation 	Makhana Roaster <ul style="list-style-type: none"> » Uniform heat distribution for even puffing & crunch » Precise temperature control to avoid burning 	Oil & Seasoning Dosing <ul style="list-style-type: none"> » Gentle rotating drum for uniform oil & seasoning application » Suitable for dry powders, oil-based & compound seasonings 	Flavouring/Coating Drum <ul style="list-style-type: none"> » Accurate oil spraying & masala dosing » Ensures consistent taste in every batch » Adjustable as per recipe requirement 	Cooling & Discharge Section <ul style="list-style-type: none"> » Stabilizes product texture and flavour adhesion » Ready for packing for further processing

Trust We Provide to our Customers

- » Complete turnkey solutions
- » Process-Oriented engineering design
- » Indian manufacturing standards with global quality
- » Installation, commissioning & operator training
- » Custom solutions as per product and market need



BESAN (GRAM FLOUR) PRODUCTION FACILITY



Urdhvaege India offers end-to-end turnkey solutions for setting up modern, efficient, and hygienic Besan (Gram Flour) Manufacturing Plants. We provide Indian-manufactured machinery, delivering high yield, consistent quality, and long-term operational reliability.

OUR EXPERTISE IN BESAN PLANTS

We design & execute complete Besan Processing lines that ensure:

- » Consistent product quality
- » High yield with minimal losses
- » Energy-efficient operation
- » Food-grade hygienic standards
- » Uniform particle size and superior finish

Our plants are suitable for small, medium, and large-scale capacities



TURNKEY SCOPE OF SUPPLY



BESAN MANUFACTURING PROCESS



Key Features

- » Fully Customised Layout
- » Food Grade SS 304/316 Contact Parts as per Industry Acceptable Standards
- » Heavy Duty Cold Based Grinding Systems
- » Ease of Operation providing Reliable Maintenance
- » Complete Spares with full after Sales Support



Performance. Consistency. Scalability.

Urdhvaege India delivers fully integrated aquatic feed manufacturing plants engineered to produce uniform, nutritionally stable and high-performance pellets. Our turnkey solutions cover the complete process—from raw material intake and fine grinding to extrusion, drying, coating and packing—ensuring reliable production for shrimp, fish, hatchery and specialty aquafeeds. Driven by engineering precision and robust Indian manufacturing, our plants are designed for process stability, energy efficiency and long-term operational reliability with minimal wastage.



Complete Process Flow

Raw Material Intake & Dosing → Cleaning & Magnetic Separation → Fine Grinding / Micronization → Batching & Liquid Addition → Mixing & Conditioning → Extrusion → Drying → Oil & Nutrient Coating → Cooling, Screening & Packing

Single Screw Extruder – Core of the System

The Single Screw Extruder from Urdhvaege India ensures consistent cooking, controlled expansion and uniform aquatic feed pellets. Its heavy-duty screw and barrel design enables high starch gelatinization & precise control of pellet density for floating, slow-sinking & sinking feeds.

Built with wear-resistant alloy steel and feed-grade stainless steel contact parts, it offers long service life, hygiene and reliability. VFD-controlled drives, along with adjustable die and cutter systems, provide accurate throughput and pellet size control, while seamless integration with downstream equipment ensures efficient, smooth operation.

Key Features

- » Heavy-duty high-torque gearbox for stable operation.
- » Modular screw profile for varied kibble shapes & density.
- » Precision-controlled feeding & extrusion parameters.
- » Optimized barrel heating for uniform cooking & expansion.
- » Suitable for dog food, cat food & specialty dry diets.
- » Designed for continuous operation with low maintenance.

Equipment Highlights

- » Precision feeders and screw conveyors
- » Super-fine pulverizers for uniform particle size
- » High-efficiency mixers and conditioners
- » Single screw extruders with VFD control
- » Belt or rotary dryers with heat recirculation
- » Oil spraying and flavour coating systems
- » Automated cooling, grading & packing solutions

Capacity Range

Pilot to commercial-scale plants, configurable from 50 kg/hr to 1,000 kg/hr and above, with modular designs for future expansion.



Integrated Pet Feed Manufacturing Solutions

Dry (Kibbles) type food for Dogs and Cats

Engineering-Led Turnkey Systems for Consistent, Nutritious & High-Quality Pet Food

Urdhvaege India provides complete dry pet food plant manufacturing solutions, engineered to deliver consistent kibble quality, high throughput, and long-term operational reliability.

From compact pilot units to fully automated industrial plants, our solutions integrate robust Indian manufacturing, advanced extrusion technology and process-driven design tailored to modern pet nutrition requirements.



Complete Turnkey Scope

- » End-to-end plant design, engineering, manufacturing & commissioning.
- » Customized layouts aligned with capacity, formulation & space.
- » FAT, installation, trial runs & operator training
- » After-sales service, spares & process optimization support.

Plant Capacities

- » Pilot & R&D Lines: ~150 kg/hr
- » Small to Medium Scale: 150 – 500 kg/hr
- » Industrial Production: 500 – 3000+ kg/hr

Typical Dry Pet Food Process Flow

Raw Material Handling & Dosing → Grinding & Pulverizing →
Pre-Conditioning (Steam / Moisture Addition) → Single Screw Extrusion & Kibble Formation →
Multi-Zone Drying → Cooling → Sizing & Sieving → Oil / Palatant Coating →
Automatic Weighing & Packaging



Core Equipment Supplied

- » Raw Material Handling Systems – Silos, conveyors, feeders
- » Fine Grinding Systems – Hammer / Impact Pulverizers
- » Pre-Conditioners – Uniform moisture & heat distribution
- » Single Screw Pet Food Extruder – Cooking, shaping & expansion
- » Multi-Layer Dryer – Controlled moisture removal
- » Cooling Conveyor / Counterflow Cooler
- » Vibro Sifter & Grader – Size consistency & fines removal
- » Oil & Palatant Coater – Enhanced taste & nutrition
- » Automatic Packaging Lines – Hygienic, accurate & traceable

Key Features

- » Proven expertise in food & feed process engineering
- » Machines manufactured in India with international performance standards
- » Energy-efficient design with low operating cost
- » Modular plants allowing future capacity expansion
- » Reliable technical support & fast spare availability



OUR CLIENTELE

At Urdhvaege India

“From Individual Machines to Turnkey Projects - We Cover it All”

World Leader in Design & Manufacturing of Automatic equipments for Processing Sections of Various Industries



OUR CLIENT TESTIMONIALS



Ganesh Sharma

★★★★★ a week ago

The Colloid Mill I purchased from Urdhvaege India Pvt Ltd has truly proven to be a 'Game Changer' for my sauce business. As a business owner, I initially had concerns about performance and finishing, but this machine has taken my product quality to a whole new level. It is honestly an exceptional piece of machinery. I want to express my heartfelt gratitude to the team for their amazing support, reliability, and outstanding quality. If you refuse to compromise on quality, Urdhvaege is the perfect choice for you.



Sonu Saini

★★★★★ 3 months ago

I recently ordered 3 Automatic Lines for Liquid and Powder section (Nutraceutical). I am impressed by their Product quality, On time delivery, Customer services & problem solving things. In my view; Urdhvaege India Pvt Ltd is best Machine manufacturer in Delhi. I recommend everyone to meet one time with Mr. Rohit Verma related to machinary requirement.



Pawan Pandey

★★★★★ 3 months ago

The company is great provide best machines and mfg tools for our cleaning and cosmetic sector industry in India.



Aamiit Agnihotri

★★★★★ a day ago

We recently purchased a mass mixer machine from Urdhvaege India Pvt. Ltd., and we are extremely satisfied with the entire process. The machine quality is excellent, and delivery was completed within the committed timeline.

Mr. Rohit Verma, the owner, was very supportive and knowledgeable. He helped us evaluate the machine properly and explained every technical detail clearly, which made the purchasing decision easy and confident.

Overall, a very professional company with reliable products and outstanding customer service. We strongly recommend them.



Kiran Lata
1 review

★★★★★ 3 months ago

I appreciate the professionalism and dedication your firm brings to every project. Your firm's commitment to innovation and customer satisfaction is truly commendable.



Robert Ambrose

★★★★★ 3 months ago

If you're looking for a true collaborative partner and not just a supplier/vendor, look no further

Grateful to Rohit Verma & his team for all their support and we look forward to continued collaborations with them as we grow our business.

Best wishes for their success



Harsh Tushar

★★★★★ a year ago

Urdhvaege machines offer reliable performance and results.

Company's excellent customer support ensures timely assistance and maintenance services.



Litmus Food Analytics

★★★★★ a day ago

We have been working with Urdhvaege for our product development services, and our experience has been consistently positive. What stands out the most is their excellent after-sales support their team responds immediately to any issue and ensures it is resolved efficiently with minimal downtime.

Urdhvaege India Pvt Ltd

An ISO 9001 : 2015 CERTIFIED COMPANY

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Disclaimer :

Capacity rating, features and specifications vary depending upon the model & type of service. We reserve the right to change or modify our product at any time without notice.