Balaji Engineering

SINCE 1990

balajiengineering.net

- SOLVENT EXTRACTION PLANT
- EDIBLE & NON-EDIBLE OIL REFINING PLANT
- DERIVATIVES PLANTS
- CUSTOMIZED EQUIPEMNTS AND MACHINERIES
- SPARES SUPPLY & SERVICES

MANUFACTURING TRUST...

... ACROSS THE GLOBE

WE ARE BALAJI

Balaji Engineering

Balaji Engitech Private Limited

About Us

BALAJI is a process engineering company that design, manufacture, and installs modern oil mills, solvent extraction plants, and edible oil refining plants for industries in India and overseas. We started as a modest firm called BALAJI ENGINEERING WORKS.

In 2009, as a next milestone we founded BALAJI ENGINEERING in Gujarat with the latest production technology and machinery. We provide customized, value-driven solutions, as well as technically sound equipment with exceptional engineering. We've earned the trust of over 500 consumers throughout the world by our hard work, ethics, and focus on timely service. Now we have expanded our production facilities with adding new venture Balaji Engitech Private Limited.

We are always improving our technologies in order to become the "customers preferred company". Our organization's mission is to become the one-stop solution for our clients and customers.

4,140 sqm Manufacturing Infrastructure

200+ Staff

50+ Projects

500+ Customers

3+ Countries

FOUNDER's MESSAGE

Balaji Engineering

Welcome to Balaji Engineering, a company with a vision of becomes a trusted partner for our each client.

As a founder I am proud of our journey from beginning as a small scale workshop to become a forefront company in oil engineering.

It is result of our continuous learning & improvements, technology & innovations, excellence & advancements to deliver exceptional quality, reliability and safety in each project we undertake.

Our mission is to transform lives through our expertise in engineering.

I personally thank our clients for considering Balaji as their engineering partner.

G. N. YADAV
FOUNDER & CEO

WHAT SETS US APART ?

MANUFACTURING STRENGTH

- Globally Proven technologies into our operations.
- Years of plant construction experience.
- With our product, we were ready to cater to the critical needs.

ONE-STOP SOLUTION

Use our services at different stages of project

- from consultancy to
- analysis (econometrics and statistical) to
- on-ground work (surveys, Designing)
- Project hand over after completion.

COST OPTIMIZATION

- Leverage network of field teams across the country.
- A unique cost advantage of deploying local teams.
- Operational costs lower than competitors.

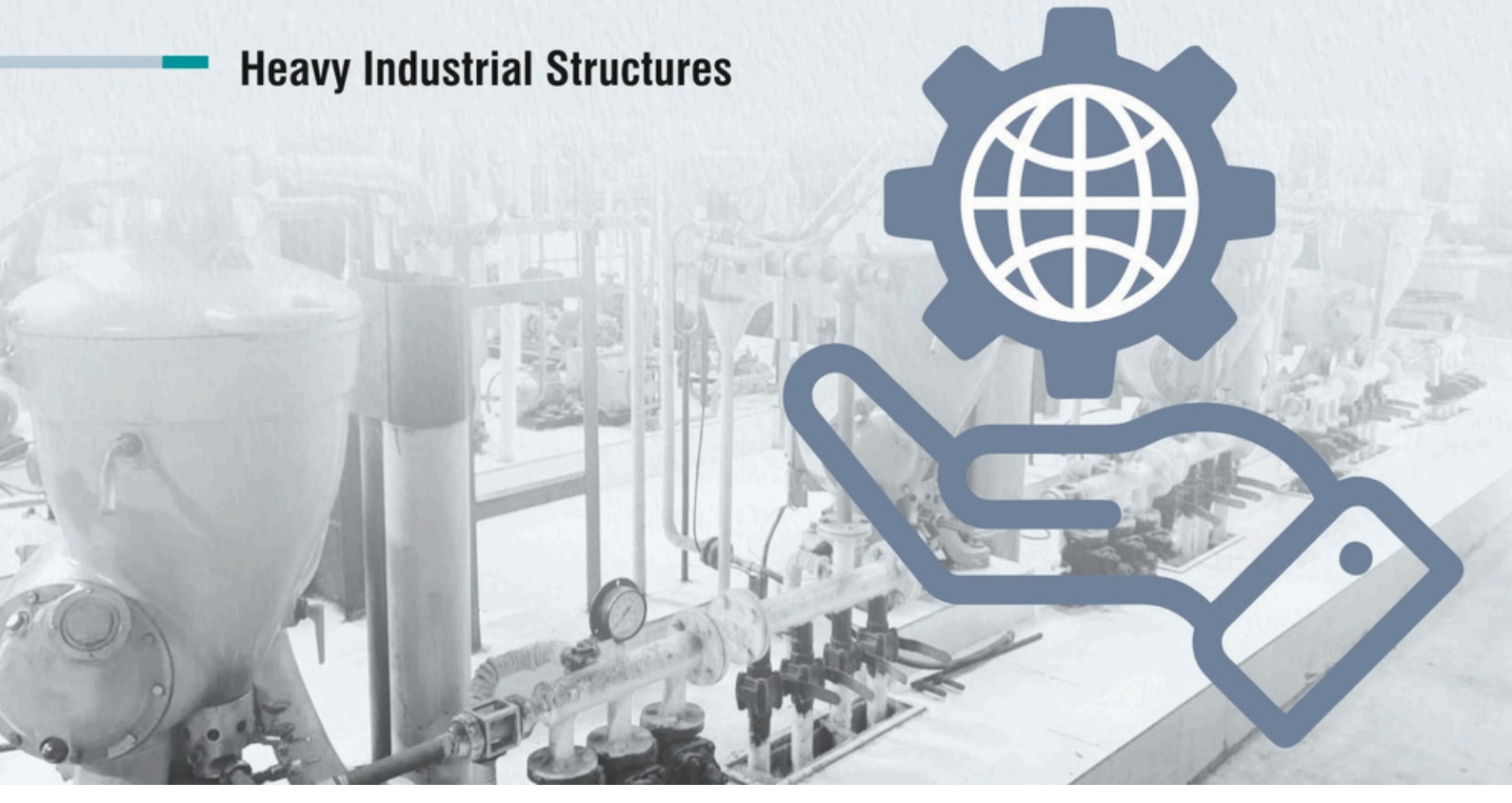
MEETING COMPLIANCE REQUIREMENTS

- Customized work as clients requirement for project.
- We can help with compliance fulfillment.
- Use our services to impact and success.

BALAJI'S SERVICES

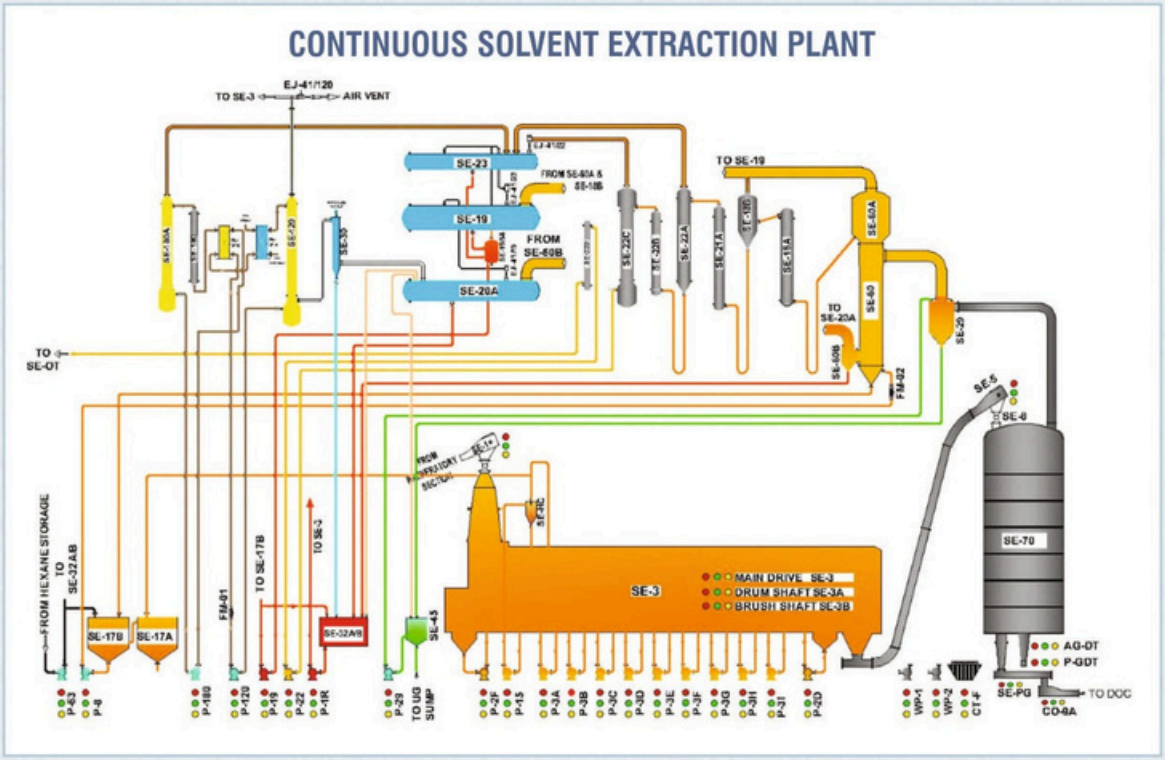
Balaji Engineering

- Seed Cleaning Plant
- Seed Crushing Plant (Oil Mill)
- Solvent Extraction Plant
- Refinery Plant / BSS Unit
- Derivatives Plants
- Acid Oil Plant
- High Protein Separation Plant
- Peanut Shelling & Sorting Plant
- Cattle Feed Plant
- All Type Customized Machineries/Equipments
- Heavy Industrial Structures



BALAJI'S CONTINUOUS SOLVENT EXTRACTION PROCESS

CONTINUOUS SOLVENT EXTRACTION PLANT



Solvent extraction is a highly efficient and reliable method used to extract edible oils from oilseeds and nuts, typically employing food grade n-Hexane as the solvent of choice. Solvent extraction removes nearly all residual oil (approximately 0.5%), consumes less energy, and requires minimal maintenance. Its efficiency and reliability make it the preferred method for separating large quantities of oil from protein meal.

The Solvent Extraction plant operates by extracting the majority of oil from prepared raw materials using a counter-current flow of miscella at a specified temperature and duration. The design of miscella feed flow rates and specially engineered wedge wire screens ensure optimal oil recovery.

The extracted meal undergoes desolventization in a toaster to recover entrained solvent, after which the desolventized material is conditioned by controlling temperature and moisture levels. Vapors from the desolventizer toaster are condensed in a condenser to recover solvent, facilitated by an economizer. Solvent is recirculated after moisture removal, and the miscella, following fines separation using hydroclone, proceeds to the distillation section. Here, an evaporator, heater, and vapor condensing unit further refine the miscella. Initially heated in the evaporator with the economizer, miscella undergoes solvent recovery using the heat from vapors emitted during desolventization.

Snapshot of our supplied Project

BALAJI'S EXTRACTOR

Balaji Engineering

Balaji's Extractor features a horizontal design comprising an articulated conveyor assembly. This assembly receives material from the feed hopper and transports it at a slow, predetermined speed from the feed to the discharge end. The conveyor moves on rails within the extractor and is engaged by specially constructed sprockets at both ends. An adjustable damper regulates the material bed height on the band conveyor.

The system includes a series of spray breakers to ensure precise solvent spray onto the moving bed, with ample provisions for visibility and inspection through light and sight glasses. The band conveyor assembly also acts as a filter bed to remove fines, equipped with a wedge wire system featuring a drum shaft, brush, main drive, and mesh cleaning system.

Features:

- Well-designed miscella circulation for optimal oil recovery, scrappers facilitating efficient solvent-meal contact and enhanced percolation.
- Designed draining time to achieve low residual solvent levels in the extracted meal, reducing hexane load in the Desolventiser Toaster and lowering energy costs.
- High-pressure cleaning system for the screen to maintain internal and external cleanliness of the band conveyor, preventing blockages of the wedge wire screen.

Driving System:

EN8D shaft and sprocket for durability and extended operational life.

Spray Distribution System:

Equipped with spray trays for uniform miscella distribution, mesh cleaning, and prevention of bottom choking in the extractor.

Level Control:
Paddle-type level controller to maintain optimal material levels and minimize hexane losses.

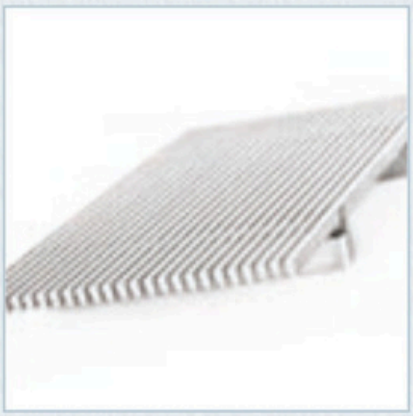
Rail:
Alloy monorail for proper alignment, reliability, and longevity of the extractor.

Hydrocyclone / Miscella filter:
Efficient Hydro-cyclone separator or miscella filter to remove remaining fines from the miscella.
In essence, Balaji's Extractor is meticulously engineered for effective oil extraction, ensuring operational efficiency, minimal solvent usage, and sustained equipment performance through advanced design and reliable components.

EXTRACTOR SPECIAL ACCESSORIES

Balaji offers a range of innovative, proprietary accessories to allow you to get the most out of your preparatory and solvent extraction solutions.

WEDGE WIRE
Balaji's proprietary wedge wire screen design ensures better percolation and improved efficiency of extraction.



MISCELLA HOPPER
Devoid of welded joints to ensure zero leakage issues and made with stainless steel.

BALAJI'S DESOLVENTIZER TOASTER

Balaji Engineering

Balaji's Solvent Desolventizer Toaster is constructed from vapor-tight stainless steel and carbon steel, organized into multiple stages with a bottom-driven drive mechanism. It features a pneumatic float and door system to regulate bed height in each stage, ensuring optimal desolventization and toasting of the meal.

Operational Process:
The extracted meal is conveyed to the Desolventizer Toaster to remove entrapped solvent. Desolventizer material undergoes conditioning with precise control over direct and indirect steam. The conditioned toasted meal then proceeds to the meal cooling section for further processing.

Desolventization Process:
Desolventization occurs using both direct and indirect steam. A specially designed sparge tray introduces open steam, while each compartment is equipped with a precisely engineered vapor duct and ample vapor space. Temperature control is maintained by temperature transmitters with steam control valves in the sparge steam line.

Features:

- Pneumatic float and door assembly ensures consistent bed height and uniform discharge of meal for efficient desolventization.
- Efficient heat utilization from vapor reduces steam consumption and enhances solvent recovery.
- Waste vapor washing system minimizes fines and vapor emissions.
- Unique zero vent system recalculates vent vapors back to the extractor, preventing atmospheric emissions.
- Maximum heat recovery is achieved through optimized vapor travel areas.
- Sparge steam tray (Double bottom) uniformly distributes steam for thorough desolventization and reduced hexane losses.
- Steam trays are constructed from high-quality boiler grade plates for durability.

In essence, Balaji's Desolventizer Toaster is designed for efficient solvent removal and meal conditioning, ensuring high performance, reduced environmental impact and longevity through robust construction and advanced operational features.

SOLVENT DISTILLATION

Balaji Engineering

Solvent distillation occurs in three vacuum stages to progressively concentrate miscella at a controlled rate. Each stage incorporates a precisely designed U-type siphon pipe to ensure continuous miscella flow without the need of a centrifugal pump, thus reducing power consumption. The Economizer features a compact design with integrated flasher, requiring minimal floor space and piping. It efficiently increases miscella concentration.

The final stage stripping is conducted under higher vacuum (700 mmHg) with steam, enabling distillation at lower temperatures to preserve crude oil integrity without color fixation. Maximum solvent recovery from the miscella is achieved during distillation. Residual solvent traces in the oil from the distillation zone are recovered in a final oil stripper operating under high vacuum. Air and entrapped solvent within the system are passed through a recuperation system where solvent traces in vent gases/vapors are absorbed using mineral oil. Hexane is then recovered by heating the mixture and condensing the solvent. The solvent-free absorbent oil is recycled for recuperation or recirculation.

Features:

- A highly efficient cyclone-centrifugal separator system prevents fouling in the distillation system and minimizes oil overheating, reducing utility consumption.
- Enhanced heat transfer and reduced retention time improve oil quality.
- The stripper is designed for optimal film formation and solvent removal.
- The dryer operates under high vacuum and includes a spraying system to eliminate hexane traces and dry the oil before discharge.
- Hydrocyclone separate fines from miscella before it enters the distillation section, enhancing process efficiency.
- Reduced sludge deposition in evaporator tubes minimizes cleaning frequency.
- Condensers are optimized for efficient solvent condensation in vacuum condition at cooling water temperature.
- A vapor absorption system with carefully calculated column and stripping sections absorbs uncondensed hexane to prevent solvent loss into the atmosphere and resulting in less effluent discharge.

In summary, the solvent distillation system is engineered for efficiency, solvent recovery, and environmental sustainability through advanced design features that optimize process performance and reduce resource consumption.

SOLVENT RECOVERY

Balaji Engineering

Solvent recovery systems consist of a condensing recovery system and a mineral oil based absorption system. The solvent recovery equipment includes the condenser, solvent water separator, re-boiling tank, etc. We can equip the condenser according to your conditions. After condensing recovery, the vent gas still contains trace solvent which is recovered by the mineral oil absorption system. The mineral oil system in the solvent recovery plant consists of an absorption column, stripping column, cooler, heater, economizer, etc. Solvent recovery can decrease solvent consumption and improve production in the extraction. Our solvent recovery equipment is easy to maintain and has a high solvent recovery rate

Process of Condensing Recovery Systems in the Solvent Recovery Plant

1. The miscella is pumped into the economizer and is heated by the non-condensing vapor coming from Desolventizer toaster so that the temperature of the miscella is increased and the temperature of the vapor is decreased. And the miscella is then reheated by primary and secondary evaporators and the evaporated solvent vapors condensed into the condensers.
2. The mixed vapor from the stripping tower enters the stripping condenser. The condensate enters the water separator & miscella tank.
3. The mixed vapor from the Desolventizer toaster enters the shell pass of the wet dust catcher and further passed to condenser through economizer. The condensate enters the water separator.
4. The solvent vapor from the oil extractor enters the DT condenser. The condensate enters the water separator.
5. The solvent separated from the water separator flows into the solvent holding tank for circulation. The waste water from the water separator flows into the boiling tank to be boiled with direct steam to strip the residual solvent. The solvent vapor enters the DT condenser. The waste water after boiled is discharged into the effluent pit.

Process of Mineral Oil System in the Solvent Recovery Plant

1. The vent gas from the condenser enters the vapor absorption column from the bottom and countercurrent contact with the cold mineral oil flowing from the top when passing the stainless steel pall rings. The solvent vapor in the vent gas is absorbed by the cold mineral oil, which then becomes the rich oil. The plant vent is drawn off through the vent gas ejector at the top of the absorption column and vented into the atmosphere.
2. The solvent-laden rich oil collected from the bottom of the absorption column is pumped by the rich oil pump into the heat economizer After being heated to the required temperature by the mineral oil heater, the rich oil enters stripping column from the top and contact with the steam by surface heating. The solvent in the rich oil is stripped and the rich oil becomes cool mineral oil and falls into the bottom of the stripping column.
3. The mineral oil is pumped by the pump into the heat economizer to transfer heat to the rich oil. After being cooled to the ideal absorption temperature by the cooler, the cool mineral oil enters the absorption column from the top for circulation.

BALAJI CAKE / MEAL DRIER-COOLER

Balaji Engineering

In applications requiring a separate cooler, Horizontal / vertical meal Drier coolers are essential for reducing the temperature and moisture content of meal coming from the Desolventizer Toaster.

Balaji's Meal Coolers are designed in both Horizontal Rectangular and vertical, cylindrical types.

Horizontal cooler are features with SS304 perforated sheets, Hot and cool air circulation system equipped with the air blowers, radiators, cyclones, airlocks, fines screw conveyor, return path fines transfer screw conveyor and the air ducts.

Vertical coolers with multiple compartments designed for efficient drying and cooling of feed meal to cool to the atmospheric temperature. It features an agitator and an air circulation system equipped with hot and cold air blowers, an air cyclone, airlock, radiator and air ducting. The cooler is powered by a drive with bevel helical gearbox and motor.

Features:

- Efficient drying and cooling of meal facilitated by an aspiration system and an optimal configuration of perforations.
- Level control damper for bed height in horizontal drier-cooler and level transmitter to maintain bed height in each compartment of vertical cooler.
- Energy-efficient blowers and air radiators to required CFM for reduced power consumption.
- Mechanical door and float system ensuring consistent feed bed height.
- Customizable size and stages to match specific capacities and feed requirements.

The Balaji's Cake / Meal Drier-Cooler is designed to ensure precise temperature and moisture control, maximizing operational efficiency and maintaining product quality throughout the cooling process.

BALAJI AUTOMATION

Cutting-edge instrumentation and software enable comprehensive control over processing operations directly from your workstation. Through a cloud-based online system, you can remotely manage plant operations and troubleshoot issues offsite.

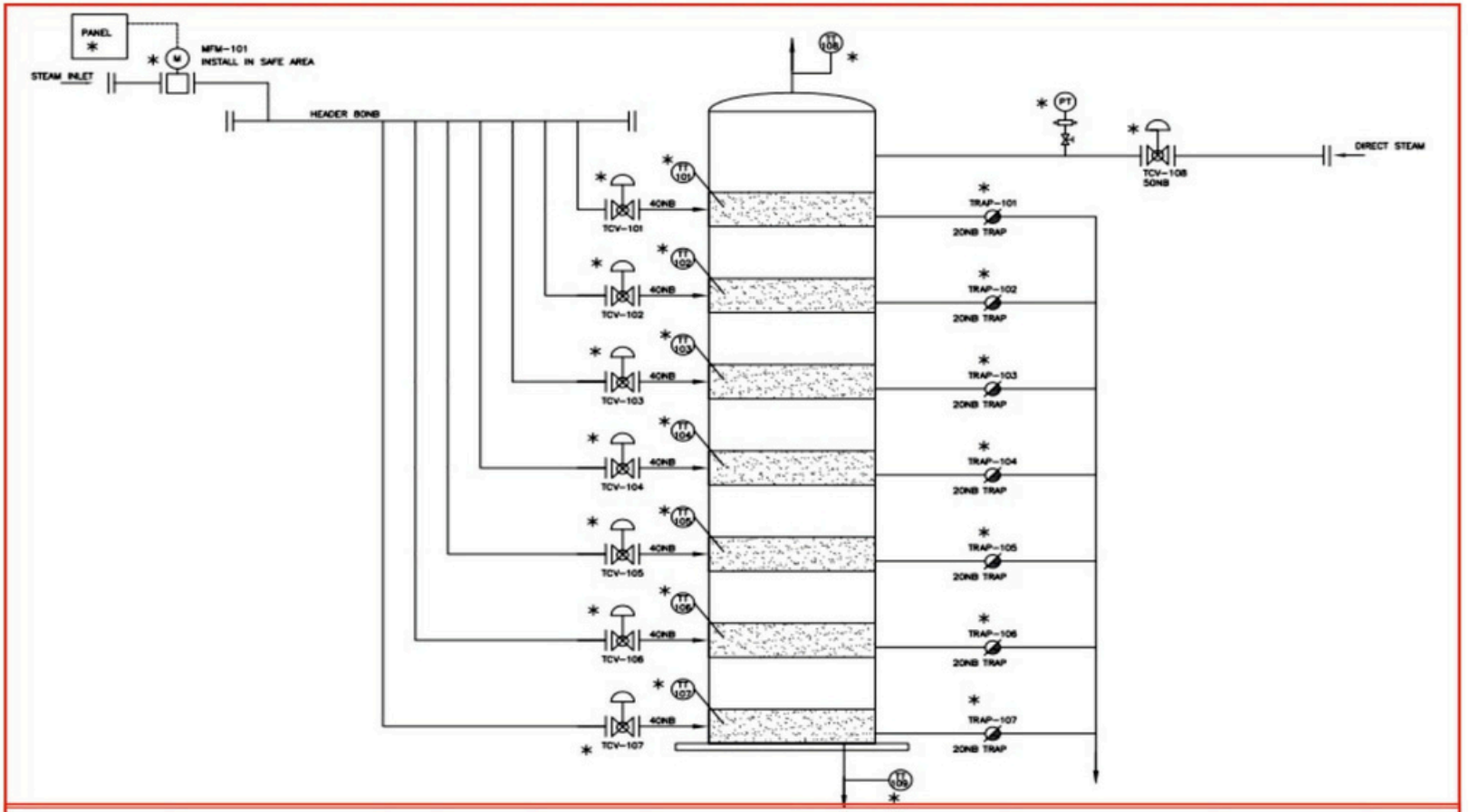
The plant is capable of remote operation and implementing corrective measures as needed. Process automation plays a crucial role in enhancing control over critical parameters such as steam, water, utilities, and chemicals.

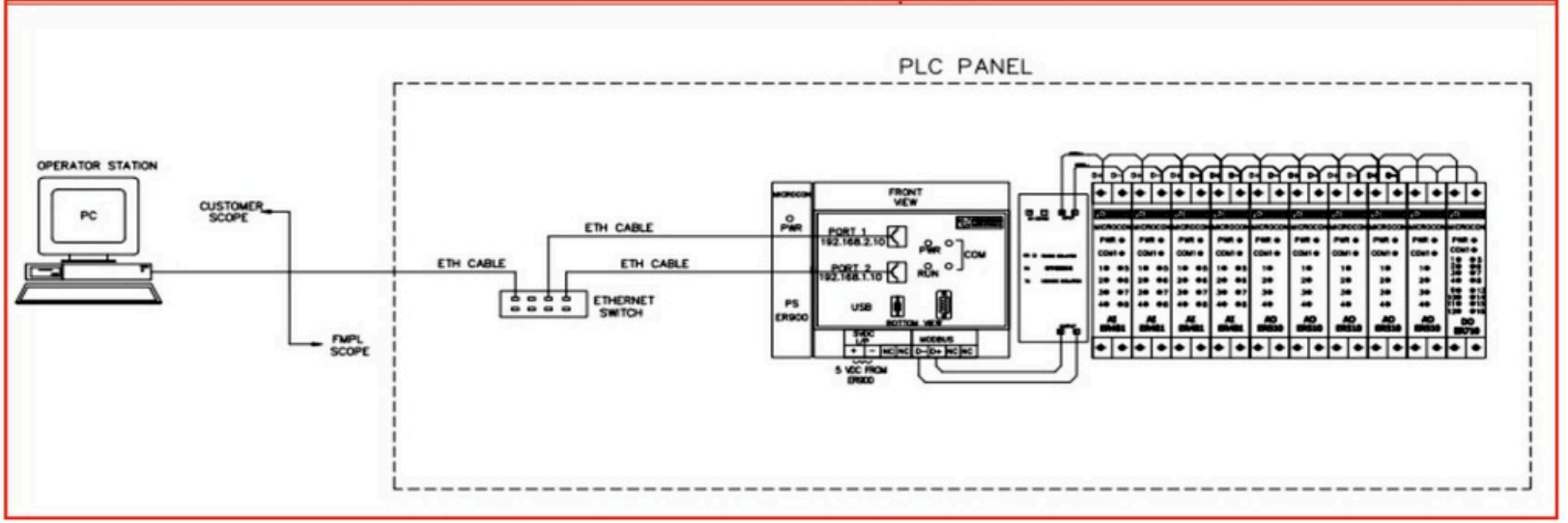
This automation improves yield, ensures high-quality final oil output, and reduces potential human errors.

Features:

- We installed Forbes Marshalls HMI based Auto control system for Desolventizer Toaster, Evaporators, Waste water reboiler with IO-DO's for High & Low level of Extractor's feed hopper and for High-Low level of DT's last compartment which controls the drive speed of Plug-o-seal conveyor in many of our projects as per customer's suitability.
- PLC Panel equipped with controllers and HART-compatible analog IO cards.
- Client-server architecture with a ring topology for the PLC system.
- Operator interface via a PC-based SCADA system for controlling plant motors, adjusting control valves, and monitoring process conditions.
- Sequence interlocking for process equipment managed directly within the PLC system.

This advanced instrumentation and software setup not only enhances operational efficiency but also provides robust control and monitoring capabilities essential for optimizing plant performance and ensuring consistent production quality.





Balaji Engineering

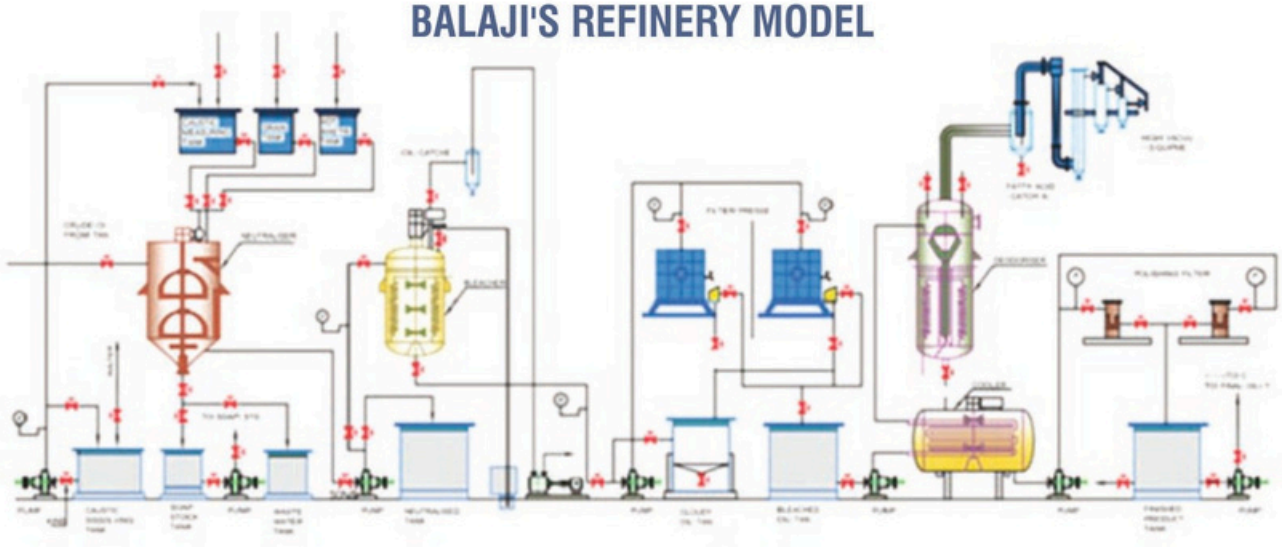
OIL REFINERY PLANT / BSS UNIT

Balaji Engineering

Oil refining is aimed at removing impurities to enhance the quality and taste of the final product. It involves several key stages:

1. Degumming
2. Neutralization & Washing
3. Pre & Post Bleaching
4. Dewaxing
5. Winterization
6. Deodorization

BALAJI'S REFINERY MODEL



DEGUMMING

This process removes phospholipids, proteins, and other impurities (gums) from crude oil. Water degumming hydrates these impurities, allowing them to be separated by settling or centrifugation.

ENZYMATIC DEGUMMING

Enzymatic degumming is the upgraded process of water degumming. Enzymes Mixer passes to high shear mixer that do the better reaction of gums with oil afterwards separate the gums through high-speed centrifuges. This is easy & accurate method & controlled by PLC so that temperature & time is well maintained.

Features:

- Low oil losses
- Better quality of lecithin
- Lower viscosity due to formation of Lysolecithin
- Low Power & Steam Consumption
- Minimum Phosphorus PPM after Degumming
- Oil is Free from Suspended Impurities

NEUTRALISATION & WASHING

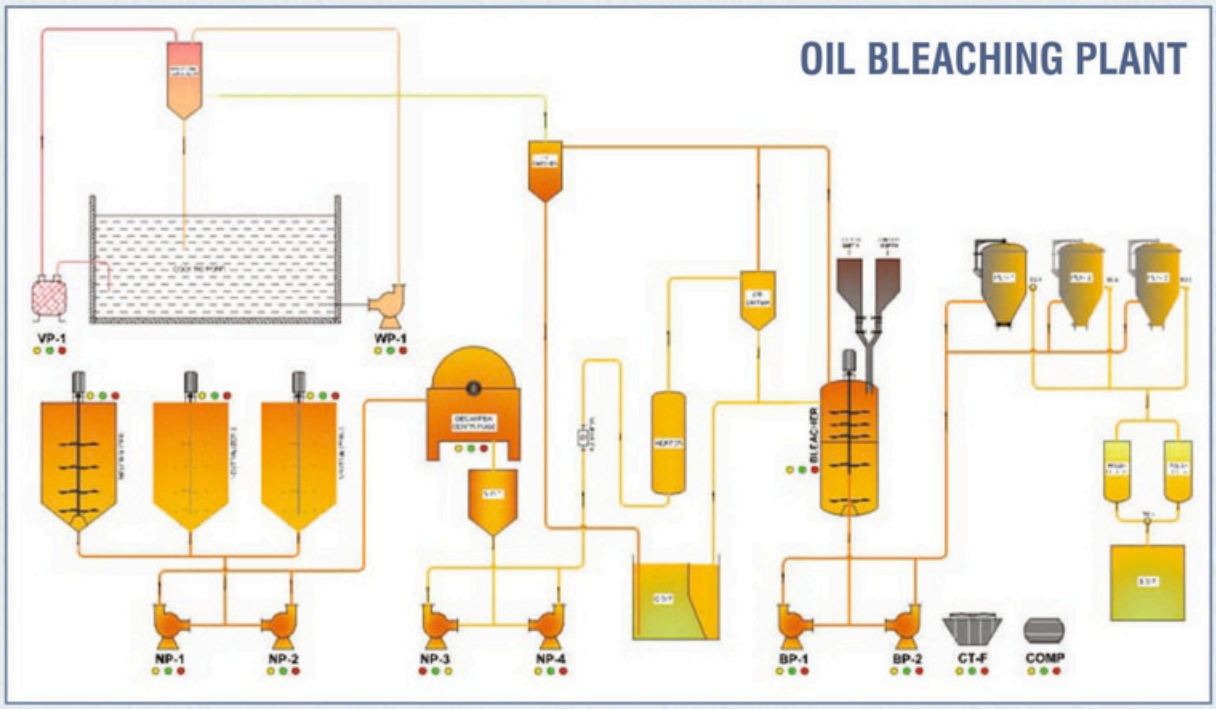
Free fatty acids are removed through neutralization, where oil is treated with caustic soda to convert the acids into soap. The soap is then separated from the oil, typically through centrifugation or settling. Continuous neutralization processes are preferred for their efficiency and quality of the final oil.

Features:

- Balaji Has designed the cylindrical & conical bottom neutralizers in such a way so that oil losses lowest with soap.
- Chemical consumption less
- After washing oil is crystal clear.
- Continuous neutralization, soap & water separation Results in the best quality of neutralized & washed oil
- Process is economical due to controlled temperature, Pressure & chemical additions.

BLEACHING

Oil bleaching involves the removal of color pigments using chemicals. The process begins with heating the oil, followed by mixing with bleaching earth in a slurry preparation stage. This mixture is then processed in a multi-deck bleacher designed for efficient color removal. After filtered under pressure, the oil passes through stainless steel plate filters and micronic filters; with spent earth dried and discharged.After certain retention time oil and earth mixture is filtered through filter under pressure, where from most of the colour of oil adsorbed by the bleaching earth. The filter oil has specified colour of oil.



DEWAXING/WINTERIZATION

Dewaxing/Winterization process separates waxes from the oil, enhancing clarity and reducing cloudiness. It involves crystallization of waxes at controlled temperatures followed by filtration to remove them from the oil. Balaji developed both types of crystallizers Batch & continuous for better formation of grains of waxes, these grains become bigger at certain Retention time & separated by filtration.

DEACIDIFICATION /DEODORISATION

During the deacidification and deodorization process, free fatty acids and low molecular weight substances are distilled out under high-temperature vacuum and direct steam conditions.

Most of the fatty acids along with volatile aldehydes, Ketones, evaporated & condensed by the efficient system of evaporation & condensation.

Multi stage Deodorization does not leave any residual volatile matter. So, the processed oil is very sweet in taste & that too without smell & longer self-life.

COOLER

Cooler is used to cool the oil with chilled water. After finish oil will pass through the polish filters and it will be stored for final packing.

FEATURES OF OUR OIL REFINERY:

- Lower Space Requirement.
- Compact Design
- Zero maintenance
- No residual odoriferous matter in oil
- Lowest oil losses with the distilled fatty acid
- Maximum colour reduction due to expose of maximum oil & vapours to the vacuum
- Lowest utilities consumption

Each step in oil refining is designed to optimize efficiency, minimize losses, and ensure the highest quality of the refined oil product. Advanced technologies such as enzymatic degumming, continuous neutralization, and multi-stage deodorization contribute to achieving these goals, making the refining process both economical and environmentally sustainable.

BALAJI'S OILSEED PREPARATION

Balaji Engineering

The man part of solvent extraction plant starts from the preparation of seed. The seed is passed through various processes of preparation which are as follows

1. Cleaning
2. Destoning
3. Magnetic Separation
4. Cracking
5. Cooking
6. Flaking
7. Expanding
8. Drying and Cooling
9. Expelling

In the extraction process of oil seeds such as Castor, Mustard, Groundnut, Cottonseed, Soyabean, Sunflower, Coconut, Rice bran etc. proper preparation is crucial. Essential steps include cleaning the seeds to remove impurities, Destoning to remove heavy foreign particles, Magnetic separator for removing metal particles, Cracking them if necessary, cooking to enhance oil extraction efficiency, and then cooling the processed seeds. Depending on need, seeds may also undergo dehulling to adjust protein content. These methods are employed across various oil seeds like Castor, Mustard, Groundnut, Cottonseed, Soyabean, Sunflower, Coconut, Rice bran to ensure optimal oil extraction.

SEED CLEANER

The seed cleaner is a machine designed to effectively remove impurities such as dust, leaves, and stems from raw materials used as feed. It utilizes screens of different sizes to separate various fractions based on particle size. Additionally, it includes an aspiration system that eliminates lightweight particles and loose hulls, ensuring the cleanliness and quality of the processed seeds.

DESTONER

A destoner is a machine designed to effectively eliminate stones, glass, and other dense materials from grains and seeds. It operates by exploiting the density difference between these heavy contaminants and the lighter seeds. Typically, it includes a vibratory system combined with an aspiration mechanism, functioning on the principle of fluidization. This setup allows the heavier particles to settle and be separated out, ensuring that only clean grains proceed further in the processing stream.

ROTARY MAGNETIC DRUM SEPARATOR

A box-type magnetic drum separator is used to remove ferrous particles from incoming feed materials. Its purpose is to safeguard live & process equipment from damage caused by these particles and to maintain a continuous flow of raw materials through the process without interruption.

FEATURES

- The magnetic separator is self-cleaning with wiper-blade.
- It can be easily installed without requiring additional setup.
- Inspection covers are removable for convenient maintenance and cleaning.
- It utilizes a powerful rare earth magnet with strength of 11,500-18,000 gauss.
- The hopper tray is adjustable to control the flow of materials in the process.

CRACKER-BREAKER

Cracking efficiently decreases seed particle size to ensure uniform cooking without excessive fines. This is accomplished using four dynamically balanced rolls crafted from chilled cast iron, which break the seed into 4-6 pieces, thereby increasing its surface area.

Features:

- Adjustable springs and Belleville washers absorb shock to safeguard the rolls from damage.
- Spherical, self-aligned roller bearings within the cracker rolls maintain precise alignment during operation.
- Custom-fabricated UHMWPE side seals are integrated into the cracker to prevent the passage of uncracked seeds.

BALAJI'S DEHULLING EQUIPMENT/DECORTICATOR

Decortication involves removing husk from seeds by cutting them to separate the kernels. Following decortication, kernels are processed in a screw press, where extraction efficiency increases as machine capacity rises. This process is ideal for peanuts, soya and sunflower seeds.

Features:

- High-quality graded cast iron rolls with interchangeable knife alloys.
- Shaft mounted on spherical roller bearings in a housing.
- Pressure-sensitive hydraulic system with a self-regulating pumping unit for uniform seed cutting and prevention of powder formation.
- Ensures efficient separation, leaving minimal hull residue in the processed kernels.

COOKER

The Stack Cooker is crafted from vapor-tight carbon steel, featuring a double bottom made from high-quality boiler grade steel for robustness. Its advanced design ensures durability of moving parts, enhancing productivity with minimal maintenance needs.
This cooker preheats seeds to the desired temperature, rupturing oil cells and releasing inherent moisture as steam. This reduces oil viscosity, easing oil separation during extraction. Cooking also coagulates proteins and sterilizes seeds by deactivating enzymes, preventing bacterial or mold growth. It maintains optimal moisture levels, reducing milling defects and lowering power consumption in Flakers.

Features:

- A control mechanism to regulate seed levels and ensure required residence time.
- Steam trays that optimize heat transfer and prevent leaks during extended operation.
- Trays made from special-grade boiler plates, hydraulically tested at 2.5 times operating pressure for longevity.
- Sparge steam holes in rotating blades for efficient mixing and to prevent blockages.
- Sturdy shaft and hard-faced agitator blades for effective mixing and durability.

FLAKER

The Flaker is a two-roll chilled cast iron machine with dynamically balanced rolls that prepares flakes with a thickness of 0.25-0.3 mm. It breaks down the tough oil-bearing cellular structure, enhancing oil recovery during solvent extraction. Use of the flaker reduces solvent extraction section retention time and minimizes extractor size, resulting in cost savings.

Features:

- Hydraulic system allows adjustable lake thickness during operation, ensuring uniform transfer of thick flakes to the extraction plant.
- Shock absorber accumulator prevents damage from impacts.
- Equipped with a permanent magnet to capture iron particles.
- Includes a roll grinding attachment for edge maintenance.

EXPANDER

The expander processes soy cracked particles into pallets, increasing their porosity to enhance hexane percolation in oil cake/flakes for improved oil extraction efficiency and faster yield.

Features:

- Facilitates easy percolation due to high porosity, leading to higher miscella concentration.

- Reduces solvent and steam consumption, as well as levels of aflatoxin contamination.
- Enables direct extraction of high oil-content seeds like sunflower, rapeseed, and canola without the need for an expeller, or with a specialized squeezomatic attachment.
- Increases solvent extraction plant production.

DRIER COOLER

In order to maintain the ideal temperatures required for the extraction process, the drier cooler is crucial for lowering moisture content and cooling flakes and pallets. It has a modular architecture that enables easily adjustable capacity. Air is drawn from the cooler's top via an annular area between the trays, through the material, and out of the cooler.

Features:

- The modular design with distinct drying and cooling modules is one of the key features.
- Every module is sealed to keep air from combining.
- Perforated trays maintain the necessary air pressure and velocity while ensuring an ideal and simultaneous flow of hot or cold air.
- Minimal maintenance expenses and downtime.
- An intricate foundation is not necessary thanks to the machine-mounted gearbox, motor base frame, and blowers.

GRAVITY SEPARATOR

The Gravity Separator employs a multi-deck seed separator to remove loose hulls and damaged kernels of lower size.

Features:

- Perforated basket beater for separating fine kernels.
- Fine kernels collection slope and zigzag cascade chamber ensure efficient separation.

OIL MILL PLANT

Balaji Engineering

Oil Milling is a process of pressing the Oil Seeds for extracting crude oil such as mustard seed, cotton seed, sunflower, Groundnut, Castor seed etc. The oil Mill process involves expelling for squeeze oil out of pre-treated and clean seed under pressure enabling efficient Oil Extraction resulting in best quality crude oil.

EXPELLING

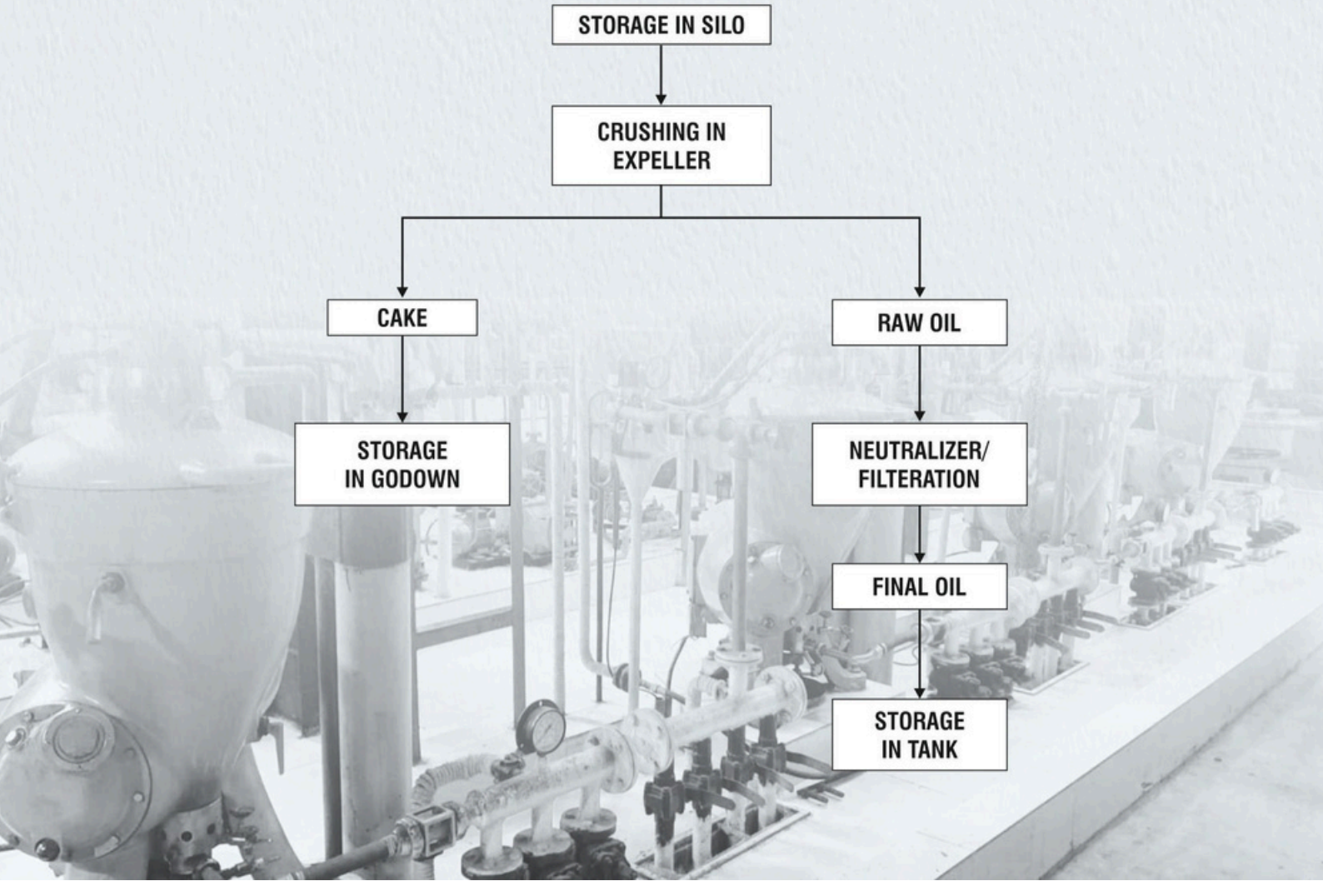
Oil expelling is a mechanical extraction method by using a screw press/ Expeller to squeeze oil out of pre-treated and clean seed under pressure. It is the most commonly used method for continuous mechanical extraction of oil. The pressed oil contains some fines, which need to be further filtered using vibro separator and filter press to enable the output oil to be clean & purified.

This electric motor driven screw conveys the seeds through the press cage and against the cage bars. The action of the seeds being conveyed against the cage bars squeezes the oil out of the meal. When the meal reaches the end, the cake falls out that is further sent to processing for solvent extraction after dry-cooling.

FILTER PRESS

Filter press is being used to purify the crude oils after pressing/crushing; the filtering machine utilizes a fine-mesh filtering cloth which separates liquid filtrate oil from the suspended/unwanted solid particles.

FLOW CHART FOR SEED OIL MILL



WHAT OUR CLIENTS SAY

Balaji Engineering

"We are pleased to confirm our entire satisfaction of the working of expanded Solvent Extraction plant initially supplied by you of capacity 200 TPD. We are today getting a production of 300TPD and are fully satisfied with the capacity, consumption of utilities, hexane loss and steam consumption of our Plant

Dr Bharat K Patel
Founder Shivam Castor Products Pvt. Ltd.

"We wish to thank you for the prompt assistance rendered by you for commissioning our Solvent Extraction plant at Sheoganj. We also place on record our appreciation and admiration for thorough and meticulous handling by the Balaji team to achieve desirable plant parameters

Mr. Vipin Gupta
Partner Manager

"Yours decisions made and actions taken that prove that the customer commitment is real and not lip service."

Mr. Mehul Agarwal
CEO & Founder
Castrochem Pvt Ltd

OUR CERTIFICATIONS

Balaji Engineering

सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
MINISTRY OF
MICRO, SMALL & MEDIUM ENTERPRISES

MSME Zed BRONZE
ZERO DEFECT ZERO EFFECT

CERTIFICATE

ZED BRONZE

under MSME Sustainable (ZED) Certification Scheme
awarded to

BALAJI ENGINEERING

UNIT NAME

Flat No:- PLOT NO.39/40, Building:- CHANDISAR, Road/Street:- NEAR GANESH WEIGHT BRIDGE, Village/Town:- G.I.D.C, Block:- , City:- PALANPUR, BANAS KANTHA, GUJARAT-385510

UNIT ADDRESS

28-Manufacture of machinery and equipment n.e.c.

CODE (AS PER NIC-2008)

UDYAM-GJ-04-0001361

UDYAM REGISTRATION NUMBER

Issued on :
July 31, 2024

Certificate Validity :
Three years from the date of issue

Certificate No. 31072024_316864

This Certificate has been awarded after fulfilling all relevant requirements as laid down in the MSME Sustainable (ZED) Certification Scheme Guidelines for this Certification Level.
Award of this Certificate does not substitute any legal requirement needed for setting up or operating an MSME Unit.

OUR AWARDS AND CERTIFICATIONS

Balaji Engineering

OUR AWARDS AND CERTIFICATIONS

OUR CERTIFICATIONS

Balaji Engineering

Facilitating Businesses for Enhanced Efficiency

Certificate of Registration

Thisi stoce rtifyt hat

BALAJI ENGINEERING

OFFICE&F ACTORY:PLOT NO3940,GIDC,C HANDISAR,BAN ASKANTHA- 385510, GUJARAT,INDIA.

has been assessedb yRIC Landf ound tocom plyw iththe requi rementsof

ISO 9001: 2015

Quality ManagementS ystems

Forth efollo wing activities:

MANUFACTURING& SP ECIALISTO FO ILM ILL, SOLVENTEX TRACTIONPL ANT, EDIBLEO ILRE FINERY,N EUTRALIZEREL EVATOR,C ONVEYORS PRESSURE AND VACUUM VESSELS.

ThisC ertificateis Validfro m26/0 6/2025Until2 5/06/2026

Dateo fInitial Certifi cation: 26/06/2025
IstSur veillanceonor before :25/05 /2026
IIndS urveillanceon orbef ore:25 /05/2027
Certification ValidUn til:25/0 6/2028

Certificate No.: 25RN06HF

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

UNITED ACCREDITATION FOUNDATION UAF

CB-MS-2606

Thiscert ificateca nbeveri fiedatw ww.iafcertsearch.org, www .uafaccreditation.orgoratw ww.ricliso.com
United AccreditationFoun dationIN C,1060 LaskinR oad, Suite12 B/13B,VirginiaBeac h,V A23451,U SA

Director
Royal Impact CertificationL td.

623,T ower-B,i Thum,Pl otNo. A-40,Sec tor-62,N oida201 301,India.
www.ricliso.com,info@ ricliso.com
Phone:+ 911204 113893

UAF is member of International Accreditation Forum (IAF). Its membership status can be verified at www.iaf.nu. ThisCe rtificateremain sthepr operty ofRoya lImpac tCertifi cation Limited.Mustb ereturn edonr equestorifce rtificateis withdrawn.V alidity ofthisc ertificateissu bjectto succes sfulsur veillanceaud itsasp erdate sgiven above .

OUR CERTIFICATIONS

Balaji Engineering

Facilitating Businesses for Enhanced Efficiency

Certificate of Registration

Thisi stoce rtifyt hat

BALAJI ENGINEERING

OFFICE&F ACTORY:PLOT NO3940,GIDC,C HANDISAR,BAN ASKANTHA-385510, GUJARAT,INDIA.

has been assessedb yRIC Landf ound tocom plyw iththe requi rementsof

ISO 45001: 20 18

OccupationalH ealthan dS afetyM anagement Systems

Forth efollo wing activities:

MANUFACTURING& SP ECIALISTO FO ILM ILL, SOLVENTEX TRACTIONPL ANT, EDIBLEO ILRE FINERY,N EUTRALIZEREL EVATOR,C ONVEYORS PRESSURE AND VACUUM VESSELS.

ThisC ertificateis Validfro m26/0 6/2025Until2 5/06/2026

Dateo fInitial Certifi cation: 26/06/2025
IstSur veillanceonor before :25/05 /2026
IIndS urveillanceon orbef ore:25 /05/2027
Certification ValidUn til:25/0 6/2028

Certificate No.: 25RN06HG

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

UNITED ACCREDITATION FOUNDATION UAF

CB-MS-2617

Thiscert ificateca nbeveri fiedatw ww.iafcertsearch.org, www .uafaccreditation.orgoratw ww.ricliso.com
United AccreditationFoun dationIN C,1060 LaskinR oad, Suite12 B/13B,VirginiaBeac h,V A23451,U SA

Director
Royal Impact CertificationL td.

623,T ower-B,i Thum,Pl otNo. A-40,Sec tor-62,N oida201 301,India.
www.ricliso.com,info@ ricliso.com
Phone:+ 911204 113893

UAF is member of International Accreditation Forum (IAF). Its membership status can be verified at www.iaf.nu. ThisCe rtificateremain sthepr operty ofRoya lImpac tCertifi cation Limited.Mustb ereturn edonr equestorifce rtificateis withdrawn.V alidity ofthisc ertificateissu bjectto succes sfulsur veillanceaud itsasp erdate sgiven above .

OUR IEC CERTIFICATE

Balaji Engineering

सत्यमेव जयते

Government of India / भारत सरकार

Ministry of Commerce and Industry / वाणिज्य और उद्योग मंत्रालय

Directorate General of Foreign Trade / विदेश व्यापार महानिदेशालय

Office of the Additional Director General of Foreign Trade, Ahmedabad /अपर महानिदेशक, विदेश व्यापार का कार्यालय, अहमदाबाद

3rd Floor, HUDCO Bhavan, Ishvar Bhuvan Road, Navrangpura, AHMEDABAD, GUJARAT, 380009 / तीसरी मंजिल, हुडको भवन, ईश्वर भवन रोड, नवरंगपुरा, अहमदाबाद, अहमदाबाद, गुजरात, 380009

Importer-Exporter Code

This is to certify that **BALAJI ENGINEERING** is issued an Importer-Exporter Code (IEC) **AACPY2711Q** with details as follows -

IEC	AACPY2711Q
स्थाई खाता सं.(पैन) /PAN	AACPY2711Q
फर्म का नाम/Firm Name	BALAJI ENGINEERING
निगम की प्रकृति /Nature of Concern	Proprietorship
जारी करने की तारीख/Date of Issue	16/11/2018
पता/Registered Address	PLOT NO 39/40, GIDC, CHANDISAR, CHANDISAR PALANPUR, BANASKANTHA, BANAS KANTHA, GUJARAT, 385510
धारक का नाम / Name of the Signatory	Ganesh Narayan Yadav
Director / Partner Details	Refer online at https://dgft.gov.in or scan the QR Code
शाखा/इकाई /Branch Details	Refer online at https://dgft.gov.in or scan the QR C

Last Modified : 21/09/2025
File Number : AHDIECPAMEND00017081AM26

Note : This is a system-generated certificate. Authenticity / Updated details of the IEC can be checked at official DGFT website https://dgft.gov.in by entering the IEC and Firm Name under Services > View Any IEC Details. You can also authenticate the certificate by scanning the QR code.

OUR PERFORMANCE CERTIFICATIONS

Balaji Engineering

selico AGRO ORGANICS PVT. LTD.

To,

Balaji Engineering

Plot no.39&40,GIDC, Chandisar, Ta-Palanpur,

Distt-Banaskantha, Gujarat-385510, INDIA

THIS IS TO CERTIFY THAT M/s. BALAJINGINEERING HAS DONE DESIGN, FABRICATION, SUPPLY, ERECTION-COMMISSIONING OF OUR CASTOR OIL EXTRACTION PROJECT WHICH INCLUDES SEED CRSHING PLANT 250MTPD, CONTINUOUS SOLVENT EXTRACTION PLANT 100MTPD, CASTOR OIL REFINING PLANT 100MTPD, OIL STORAGE TANKS 700MT, DOC HANDLING SYSTEM 100TPD, HIGHPROTEIN SEPARATION PLANT 100MTPD, SEED STORAGE SILO 1500MT ON TURNKEY JOB BASIS.

ALL SECTIONs OF ABOVE PROJECT ARE RUNNING VERY SATISFACTORY, PROVIDING VERY GOOD EFFICIENCY WITH LOW POWER CONSUMPTION AND HAVE MINIMUM HEXANE LOSS OF 1.5 LTRS PER TON CAKE PROCESS, HAVE MINIMUM OIL RESIDUE 0.42% IN DOC.

WE HAVE ACHIEVED VERY GOOD PERFORMANCE AND AFTER SALE SERVICES FROM YOUR COMPANY.

WE STRONGLY RECOMMEND YOUR PLANTS AND YOUR COMPANY TO THE OTHERS WITHOUT ANY HESITATION.

With best regards,

Mr. Paresh Patel

CEO & Founder

SELICO AGRO ORGANICS PVT LTD

Date: 21/04/2025

Place: Himmatnagar

SELICO AGRO ORGANICS PVT. LTD.

DIRECTOR

SurveyNo.1601, 1594, At. Jethaji na Muvada, Antrolivas Dolji, Dadarda, Ta. Talod, Dist. Sabarkantha, Gujarat. Pin: 383305

+918511105585 info@selicoagro.com www.selicoagro.com

OUR CERTIFICATIONS

Balaji Engineering

Castrochem

Date- 05/07/2023

To,
BALAJI ENGINEERING
AT- PLOT NO. 39&40, GIDC, CHANDISAR,
TA- PALANPUR, DISTT- BANASKANTHA, GUJARAT

DEAR SIR,

THIS IS TO CERTIFY THAT **M/s. BALAJI ENGINEERING** HAS DONE DESIGN, FABRICATION, ERECTION AND SUPPLY OF OUR PROJECT AS SEED CRUSHING PLANT HAVING CAPACITY 500TPD, SOLVENT EXTRACTION PLANT CAPACITY 250TPD, CONTINUOUS BLEACHING PLANT 250TPD, DOC HIGHPROTEIN SEPARATION PLANT 250TPD, OIL STORAGE TANKS 2600MT ON TURNKEY JOB BASIS WITH SUPPLY AND ERECTION OF SEED STORAGE SILO 5000MT AND STEAM BOILER 8TPH.

THE ABOVE PLANT IS RUNNING SATISFACTORY SINCE COMMISSIONING & PROVIDING GOOD EFFICIENCY WITH LOW POWER CONSUMPTION, SOLVENT EXTRACTION PLANT HAVE MINIMUM HEXANE CONSUMPTION OF 1.5 LTR PER TON CAKE PROCESS.

WE HAVE ACHIEVED VERY GOOD PERFORMANCE AND AFTER SALE SERVICE FROM YOUR COMPANY.

WE WISH TO RECOMMEND YOUR PLANTS AND YOUR COMPANY TO THE OTHERS WITHOUT HESITATION.

With best regards,

Mr. Mehul Agarwal
CEO & Founder
CASTROCHEM PVT LTD

Castrochem Pvt. Ltd.
Palanpur-Deesa Highway, Survey No. 1017 Paiki, Village : Chadotar,
Taluka : Palanpur-385001, District : Banaskantha, Gujarat, INDIA
Mo. +91 78618 11700, 78618 11701 • E-mail : info@castrochem.com • Web : www.castrochem.com
CIN No.U24299GJ2020PTC118145 • GSTIN : 24AAJCC1101A1ZP

OUR CERTIFICATIONS

Balaji Engineering

Gujarat Narmada Valley Fertilizers & Chemicals Limited
CIN : L24110GJ1976PLC002903
P.O. Narmadanagar - 392 015, Dist. Bharuch, Gujarat, India
Ph (02642) 247001, 247002
Website www.gnfc.in
(An ISO 14001 & ISO 45001 Company)

26-05-2020

MECHANICAL COMPLETION CERTIFICATE

1.	Name of the Work	:	65 MTPD Neem Seed Expelling plant and 80 MTPD solvent extraction Plant on LSTK basis.
2.	Name of the Contractor	:	M/S BALAJI ENGINEERING, PALANPUR, GUJARAT
3	Name of the Owner	:	M/s. Gujarat Narmada Valley Fertilizers & Chemicals Ltd. Bharuch, Gujarat.
3.	Work Order Reference	:	Agreement dtd. 10.12.2018 , Value contract No.7700013612 and Purchase order No.4500065505
4.	Sch. Date of Commencement	:	05.03.2018
5	Sch. Date of Completion	:	15.03.2019
6	Actual Date of Completion :	:	26.08.2020

It is certified that the Contractor has completed the work as per the agreement , our Work Order & Purchase order.

GM (PAS)

Ref. : Proj/ Neem Project/ 2021
Date : 29-05-2021

WORK/JOB COMPLETION CERTIFICATE

Name of Department	: Neem Project
Name of Work	: LSTK work for 65 MTPD Neem Seed Expelling & 80 MTPD Solvent Extraction Plant .
Name of contractor	: M/S. Balaji Engineering
Work order No. & Date	: 7700013612 dtd. 05/03/2018.
Schedule date of commencement	: 05-03-2018
Starting date of the work	: 05-03-2018
Last work front/Material provided	: — NA —
Schedule date of completion	: 31-03-2019
Extension granted up to	: 15-05-2019

Certified that the work has been completed as per drawing, specifications and instructions given. Contractor has cleared the site.

(Counter Sign) (Authorised Signatory) SM/CM/AGM/GM(PAS) As per DOP

TIN No. 08673304877

VIPUL INDUSTRIES

Ref. No.: Date :

DATE: 30/06/2016

To,
BALAJI ENGINEERING WORKS
AT- RAITHAL ROAD, VP- JALSU
TA- AMER, DISTT- JAIPUR
RAJASTHAN- 303701

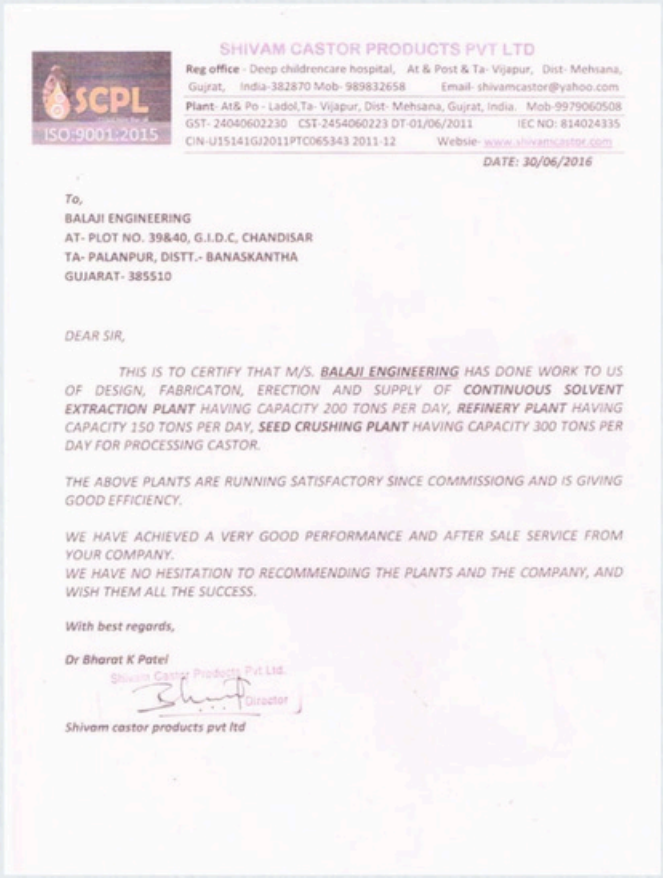
DEAR SIR,

THIS IS TO CERTIFY THAT M/S. **BALAJI ENGINEERING WORKS** HAS DONE WORK TO US OF DESIGN, FABRICATON, ERECTION AND SUPPLY OF **CONTINUOUS SOLVENT EXTRACTION PLANT** HAVING CAPACITY 300 TONS PER DAY WITH ERECTION & SUPPLY OF STEAM BOILER HAVING 8 TPH CAPACITY.

THE ABOVE PLANT IS RUNNING SATISFACTORY SINCE COMMISSIONG & IS GIVING GOOD EFFICIENCY AND HAVING LOW POWER CONSUMPTION & LOW HEXANE LOSS FOR PER TON CAKE PROCESS.
WE HAVE ACHIEVED A VERY GOOD PERFORMANCE AND AFTER SALE SERVICE FROM YOUR COMPANY.
WE HAVE NO HESITATION TO RECOMMENDING THE PLANTS AND THE COMPANY, AND WISH THEM ALL THE SUCCESS.

With best regards,

For : VIPUL INDUSTRIES
Partner/Manager



SHIVAM CASTOR PRODUCTS PVT LTD
ISO 9001:2015
Reg office - Deep childrencare hospital, At & Post & Ta- Vijapur, Dist- Mehsana, Gujrat, India-382870 Mob- 989832658 Email- shivamcastor@yahoo.com
Plant- At& Po - Ladol,Ta- Vijapur, Dist- Mehsana, Gujrat, India. Mob-9979060508
GST- 24040602230 CST-2454060223 DT-01/06/2011 IEC NO: 814024335
CIN-U15141GJ2011PTC065343 2011-12 Website- www.shivamcastor.com

DATE: 30/06/2016

To,
BALAJI ENGINEERING
AT- PLOT NO. 39&40, G.I.D.C, CHANDISAR
TA- PALANPUR, DISTT.- BANASKANTHA
GUJARAT- 385510

DEAR SIR,

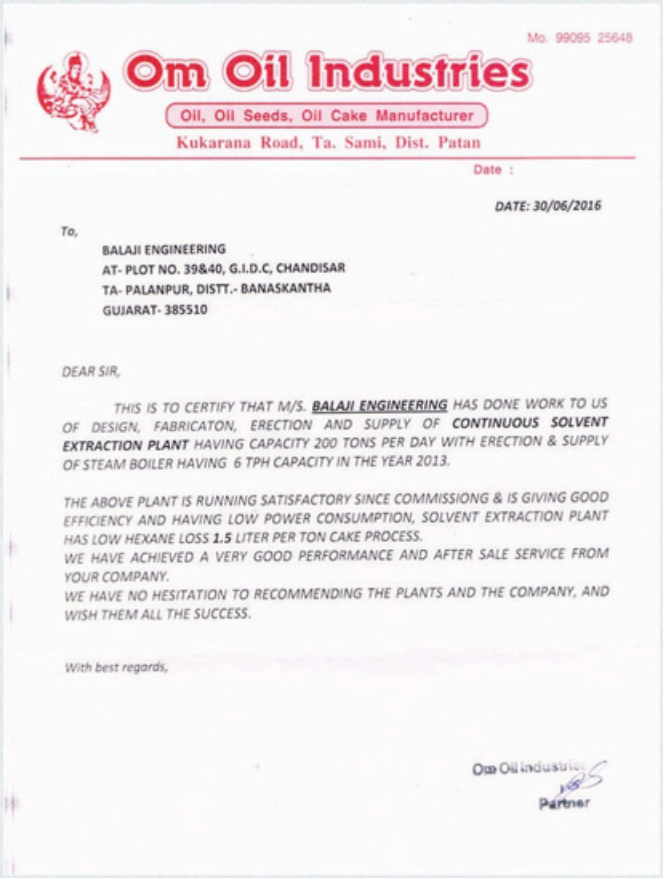
THIS IS TO CERTIFY THAT M/S. **BALAJI ENGINEERING** HAS DONE WORK TO US OF DESIGN, FABRICATON, ERECTION AND SUPPLY OF **CONTINUOUS SOLVENT EXTRACTION PLANT** HAVING CAPACITY 200 TONS PER DAY, **REFINERY PLANT** HAVING CAPACITY 150 TONS PER DAY, **SEED CRUSHING PLANT** HAVING CAPACITY 300 TONS PER DAY FOR PROCESSING CASTOR.

THE ABOVE PLANTS ARE RUNNING SATISFACTORY SINCE COMMISSIONG AND IS GIVING GOOD EFFICIENCY.

WE HAVE ACHIEVED A VERY GOOD PERFORMANCE AND AFTER SALE SERVICE FROM YOUR COMPANY.
WE HAVE NO HESITATION TO RECOMMENDING THE PLANTS AND THE COMPANY, AND WISH THEM ALL THE SUCCESS.

With best regards,

Dr Bharat K Patel
Shivam Castor Products Pvt Ltd.
Director
Shivam castor products pvt ltd



Mo. 99095 25648

Om Oil Industries
Oil, Oil Seeds, Oil Cake Manufacturer
Kukarana Road, Ta. Sami, Dist. Patan

Date :

DATE: 30/06/2016

To,
BALAJI ENGINEERING
AT- PLOT NO. 39&40, G.I.D.C, CHANDISAR
TA- PALANPUR, DISTT.- BANASKANTHA
GUJARAT- 385510

DEAR SIR,

THIS IS TO CERTIFY THAT M/S. **BALAJI ENGINEERING** HAS DONE WORK TO US OF DESIGN, FABRICATON, ERECTION AND SUPPLY OF **CONTINUOUS SOLVENT EXTRACTION PLANT** HAVING CAPACITY 200 TONS PER DAY WITH ERECTION & SUPPLY OF STEAM BOILER HAVING 6 TPH CAPACITY IN THE YEAR 2013.

THE ABOVE PLANT IS RUNNING SATISFACTORY SINCE COMMISSIONG & IS GIVING GOOD EFFICIENCY AND HAVING LOW POWER CONSUMPTION, SOLVENT EXTRACTION PLANT HAS LOW HEXANE LOSS **1.5** LITER PER TON CAKE PROCESS.
WE HAVE ACHIEVED A VERY GOOD PERFORMANCE AND AFTER SALE SERVICE FROM YOUR COMPANY.
WE HAVE NO HESITATION TO RECOMMENDING THE PLANTS AND THE COMPANY, AND WISH THEM ALL THE SUCCESS.

With best regards,

Om Oil Industries
Partner

OUR NEWS CLIPS

Balaji Engineering

बालाजी इन्जीनियरिंग के सीईओ श्री गणेशजी यादव को उत्कृष्टता पुरस्कार से सम्मानित किया गया

हमारे संवाददाता द्वारा

गुजरात।। बालाजी इन्जीनियरिंग के संस्थापक एवं सीईओ श्री गणेशजी यादव को ओईलमील मशीनरी व सोलवेन्ट एक्ट्रेक्शन प्लांट (कस्टमाइज्ड मशीनरी) निर्माता श्रेणी में उत्कृष्टता पुरस्कार से सम्मानित किया गया। यह पुरस्कार गुजरात सरकार के उद्योग एवं एमएसएमई मंत्री श्री

बलवंत सिंहजी राजपूत द्वारा प्रदान किया गया। इस अवसर पर श्री यादव ने कहा कि यह सम्मान उनकी टीम की कड़ी मेहनत और गुणवत्तापूर्ण उत्पादों के प्रति समर्पण को दर्शाता है। उन्होंने गुजरात सरकार और अपने ग्राहकों के विश्वास के प्रति आभार व्यक्त किया।

बालाजी इन्जीनियरिंग, पालनपुर स्थित एक प्रमुख इंजीनियरिंग कंपनी है, जो ऑयल मिल मशीनरी और सॉल्वेंट एक्सट्रैक्शन प्लांट्स के क्षेत्र में अग्रणी भूमिका निभा रही है। यह पुरस्कार कंपनी की तकनीकी उत्कृष्टता और नवाचार को मान्यता प्रदान करता है।

દિવ્ય ભાસ્કર અમદાવાદ 16-09-2025

Excellences in Customised Industrial Machinery & Equipment

ઓઈલ ઈન્ડસ્ટ્રીને નવી દિશા આપતું નામ એટલે બાલાજી એન્જિનિયરિંગ

ઓઈલ મશીનરીના ક્ષેત્રમાં ઈનોવેશનનું પ્રતિક છે બાલાજી એન્જિનિયરિંગ

ગુજરાતમાં ઓઈલ પ્લાન્ટ પ્રોવાઈડ કરતા બાલાજી એન્જિનિયરીંગ હવે પ્લાન્ટને એક્સપોર્ટ તરફ લઈ જવાનું વિઝન રાખે છે.

ઉત્તર ગુજરાત એક ઉદ્યોગપ્રેમી છે, જ્યાં અનેક મશીનરી, ઓઈલ મિલ, કૃષિ સાધનો અને ઈન્ડસ્ટ્રીયલ સપ્લાય કરતા કંપનીઓએ ગુજરાતના વિકાસમાં નોંધપાત્ર ફાળો આપે છે. આ પ્રકારના ઉદ્યોગોમાં બાલાજી એન્જિનિયરિંગ પણ એક સારો ફાળો છે. બાલાજી એન્જિનિયરિંગ તેના અદ્યતન ઉત્પાદન, ક્વોલિટી પ્રત્યે કમિટમેન્ટ અને ગ્રાહક સંતોષના અભિગમને પગલે માર્કેટમાં મજબૂત ઓળખ ઊભી કરી છે.

ગણેશ એન. યાદવ (ડિરેક્ટર)

કેબિનેટ મંત્રી શ્રી બળવંતસિંહ રાજપૂતના હસ્તે એવોર્ડ સ્વીકારતા ગણેશ એન. યાદવ

વર્ષ 2004 માં બાલાજી એન્જિનિયરીંગનું ગુજરાતમાં સ્થાપન

વર્ષ 1990થી બાલાજી એન્જિનિયરીંગની જયપુરથી શરૂઆત કરવામાં આવી અને ત્યારપછી વર્ષ 1998માં ગુજરાતમાં પ્રથમ વખત કામ કર્યું હતું અને ધીરે ધીરે પછી વર્ષ 2004માં બાલાજી એન્જિનિયરીંગનું ગુજરાતમાં સ્થાપના કરી. સોલવન્ટ પ્લાન્ટ મશીનરી, ઓઈલ મિલ મશીનરી, ફીડ કરની મશીનરી બનાવવા માટે પ્રતિબદ્ધ છે બાલાજી એન્જિનિયરીંગ. બાલાજી એન્જિનિયરીંગના સ્થાપક ગણેશભાઈએ ગ્રેજ્યુએશનનો અભ્યાસ કરી કરિયરની શરૂઆતમાં નોકરી કરતા હતા. વર્ષ 1989 સુધી નોકરી કરી ત્યારપછી પોતાનું કંઈક કરવાની ઈચ્છા સાથે 1990માં બાલાજી એન્જિનિયરીંગની સ્થાપના કરી હતી.

ગુજરાતમાં કુલ 22 પ્લાન્ટ આપ્યા

બાલાજી એન્જિનિયરીંગ શરૂ થયું ત્યારે હતી 7 લોકોની ટીમ હતી અને આજે 40થી 60 લોકોને ઓછામાં ઓછી રોજગારી આપે છે. ઓઈલ ઈન્ડસ્ટ્રીમાં અહોળો અનુભવ ધરાવતા ગણેશભાઈ તેમની ટીમ સાથે હાલમાં જ્વારમાંથી ફૂડ ઓઈલ કાઢવાનો પ્રયોગ કરી રહ્યા છે, જેમાં પ્રોટીનયુક્ત ફૂડ ઓઈલનું પ્રોડક્શન કરી શકાય છે. બાલાજી એન્જિનિયરીંગ એ ગુજરાત રાજ્યમાં અગાઉ પાંચ વર્ષમાં 22 પ્લાન્ટ આપેલ છે. જેમાં મોટા પ્રોજેક્ટ 200થી 300 ટન કેપેસિટી સાથે અને નાના પ્લાન્ટમાં 150 ટનની કેપેસિટીના પૂર્ણ કર્યાં છે. અને હીટલ આજ સુધી 180 જેટલા નાના મોટા પ્લાન્ટ સ્થાપન કરેલી છે.

સકારાત્મક સ્વભાવથી સફળતા મેળવી

ઓઈલ મિલ ઈન્ડસ્ટ્રીમાં આવ્યા પછી મશીનરી અને પ્રોસેસમાં જે સમસ્યાઓ આવતી હોય છે તેને સોલ્વ કરવાના ઉપાયો એટલે કે રિવર્સ એન્જિનિયરીંગ પર ગણેશભાઈએ અભ્યાસ કર્યો અને તે રીતે મશીનરી મેન્યુફેક્ચરીંગ કરવાની શરૂઆત કરી હતી. બાલાજી એન્જિનિયરીંગએ ગુજરાતના નામાંકિત સંસ્થાઓમાં પ્લાન્ટને સફળ બનાવ્યા છે. વર્ષ 2018માં તેઓએ પૂરિયામાં નિમ કોટીંગ કરતી કંપની ગુજરાત નર્મદા વેલી ફર્ટિલાઈઝર્સ કંપની લિમિટેડમાં પ્લાન્ટ આપેલો છે. આગામ સંઘર્ષ વિશે વાત કરતા ગણેશભાઈએ કહ્યું, સંઘર્ષતો પણ રહ્યા પણ સકારાત્મક રીતે નિવારણ કરતા સમય સાથે ઘણું બધુ સરળ થયું છે.

આફ્રિકામાં પણ પ્લાન્ટ પ્રોવાઈડ કરે છે બાલાજી એન્જિનિયરીંગ

ઓઈલ ઈન્ડસ્ટ્રીમાં પોતાની આગવી ઓળખ બનાવતી કંપની એટલે બાલાજી એન્જિનિયરીંગ. જેણે ગુજરાતની વિવિધ કંપનીઓમાં 22 પ્લાન્ટ આપેલા છે તેમજ બેટ આફ્રિકા અને ઝાંબિયામાં પણ ગ્રાહકની જરૂરિયાત પ્રમાણે પ્લાન્ટ મેન્યુફેક્ચરીંગ કરી આપે છે. ઓઈલ ઈન્ડસ્ટ્રીના ભવિષ્ય વિશે વાત કરતા ગણેશભાઈએ કહ્યું, આપણા દેશની ઓઈલ ઈન્ડસ્ટ્રીમાં વિકાસની ઘણી જરૂરિયાત છે.

કારણ કે આપણે ત્યાં ખાદ્યતેલની માંગને સામે પ્રોડક્શન ઘણું ઓછું થઈ રહ્યું છે.

નવી મશીનરી સાથે એક્સપોર્ટ વધારવાનું વિઝન

ઓલ ઓવર ઈન્ડિયા ઓઈલપ્લાન્ટ પ્રોવાઈડ કરે છે પરંતુ રાજસ્થાન, ગુજરાત અને યુપીમાં સૌથી વધારે માંગ આવતી હોય છે. કેસ્ટ્રો કેમ, વેજ્ઞોડેવી રિફ ઓઈલ જેવી ગુજરાતની નામાંકિત સંસ્થાઓમાં પણ બાલાજી એન્જિનિયરીંગએ પ્લાન્ટ પ્રોવાઈડ કર્યાં છે. બાલાજી એન્જિનિયરીંગને બજારમાં વધારે લોકો ઓળખે અને આપણા દેશની ઓઈલ ઈન્ડસ્ટ્રીમાં નોંધપાત્ર ફાળો આપી શકે તે માટે નવી મશીનરી મેન્યુફેક્ચર કરવાનું ગણેશભાઈનું વિઝન છે અને સાથે સાથે પ્લાન્ટને એક્સપોર્ટ કરવાનું પણ પ્લાનિંગ કરી રહ્યા છે.

BALAJI ENGINEERING
Add.Plot No.39 & 40, G.I.D.C., Chandisar, Palanpur, Dist. B.K., Gujarat - 385510 Phon No.+91 2742 283088
Email : be.palanpur@gmail.com
Web.balajiengineering.net

OUR NEWS CLIPS

बालाजी इन्जीनियरिंग के सीईओ गणेश यादव को उत्कृष्टता पुरस्कार से किया सम्मानित

गुजरात, 1 अगस्त। बालाजी इन्जीनियरिंग के संस्थापक एवं सीईओ गणेश यादव को ओईलमील मशीनरी व सोलवेन्ट एक्ट्रेक्शन प्लांट (कस्टमाइज्ड मशीनरी) निर्माता श्रेणी में उत्कृष्टता पुरस्कार से सम्मानित किया गया। यह पुरस्कार गुजरात सरकार के उद्योग एवं एमएसएमई मंत्री बलवंत सिंह राजपूत द्वारा प्रदान किया गया। इस अवसर पर श्री यादव ने कहा कि यह सम्मान उनकी टीम की कड़ी मेहनत और गुणवत्तापूर्ण उत्पादों के प्रति समर्पण

को दर्शाता है। उन्होंने गुजरात सरकार और अपने ग्राहकों के विश्वास के प्रति आभार व्यक्त किया।

उल्लेखनीय है कि बालाजी इन्जीनियरिंग, पालनपुर स्थित एक प्रमुख इंजीनियरिंग कंपनी है, जो ऑयल मिल मशीनरी और सॉल्वेंट एक्सट्रैक्शन प्लांट्स के क्षेत्र में अग्रणी भूमिका निभा रही है। यह पुरस्कार कंपनी की तकनीकी उत्कृष्टता और नवाचार को मान्यता प्रदान करता है।

2. अमन व्यापार (हिन्दी दैनिक) 23 नवम्बर 2021 (डाक 24 नवम्बर, 2021) तेल-तिलहन विशेषांक

विश्वसनीयता एवं क्वालिटी का पर्याय

बालाजी इंजीनियरिंग वर्क्स पालनपुर (गुजरात) साल्वेंट एवं रिफाईनरी उद्योग जगत में प्रतिष्ठित नाम

गणेश यादव (प्रबंधक निदेशक)

सोताराम यादव (निदेशक)

मै. बालाजी इंजीनियरिंग वर्क्स पालनपुर (गुजरात) आज सॉल्वेंट एवं रिफाइनरी उद्योग जगत में पूर्ण रूप से स्थापित हो चुका है और देश विदेश में प्रतिष्ठित नाम बन चुका है। इसका पूर्ण श्रेय खेत खेहत परिश्रमी एवं दूरदर्शी कंपनी के प्रबंध निदेशक श्री गणेश यादव को जाता है।

श्री गणेश यादव के सुपुत्र श्री सीताराम यादव जो कि कंपनी में निदेशक हैं कंपनी को सुचारू रूप से प्रगति की राह पर अग्रसर करने में उनकी महत्वपूर्ण भूमिका रही है।

स्थापना वर्ष 1990 : मै. बालाजी इंजीनियरिंग वर्क्स की स्थापना वर्ष 1990 में की गई थी। आरंभ में कंपनी प्लांटों के इंस्टालेशन एवं आधुनिकीकरण के कार्य से जुड़ने के बाद अपनी विश्वसनीयता एवं क्वालिटी के दम पर धीरे-धीरे सफलता की ओर अग्रसर होती गई और वर्ष 2000 में बालाजी इंजीनियरिंग की स्थापना की गई। बालाजी इंजीनियरिंग अब ना केवल स्वतंत्र रूप से ऑयलमिल ऑर्गेनिक सॉल्वेंट एक्सट्रेक्शन प्लांट, रिफाइनरी एवं वनस्पति प्लांट निर्माण कार्य में संलग्न है। अपितु पूर्ण रूप से प्रोफेशनल हो चुकी है।

देश में 60 से अधिक प्लांटों की स्थापना : अभी हाल ही में बालाजी इंजीनियरिंग द्वारा पालनपुर में अरंडी पर आधारित कस्टो कैम प्रा. लि. प्लांट का निर्माण कार्य पूरा कर दिया गया है जिसमें 400 टन अरंडी का क्रशिंग प्लांट 250 टन का सालवेंट प्लांट एवं 200 टन की रिफाईनरी शामिल है।

- अभी हाल ही में गायनपुर (गुजरात) में देशी देवी रिफाइन कंपनी के लिए सरसो खल पर आधारित 400 टन का सॉल्वेंट प्लांट लगाया है।

- अभी हाल ही में बालाजी इंजीनियरिंग ने गुजरात नर्मदा डेरी फेडिलाइजर (गुजरात सरकार) के लिए 100 टन नीम सीड क्रशिंग प्लांट लगाया है। मै बालाजी इंजीनियरिंग इसी तक देश में 60 से अधिक खाद्य तेल रिफाइनरी, नीम, अरंडी एवम मूंगफली सालवेंट प्लांट फैब्रिकेट और स्थापित कर चुकी है। अभी वर्तमान में [illegible] सालवेंट प्लांटो का निर्माण कार्य सफलता पूर्वक रूप से चल रहा है जिसमें अधिकांश प्लांट गुजरात और एक प्लांट सोमालिया (अफ्रीका) में चल रहे है।

सेलिको एग्रो आर्गेनिक्स की डिजाईनिंग, फैब्रिकेशन बालाजी इंजीनियरिंग द्वारा

हमारे संवाददाता द्वारा

नई दिल्ली—सेलिको एग्रो आर्गेनिक्स, हिम्मतनगर के अनुसार उनके कैस्टर ऑयल एक्सट्रैक्शन प्लांट की स्थापना का कार्य डिजानिंग से लेकर प्रोडक्शन तक, ऑयल टैंक, हाई प्रोटीन को अलग करने तक का सारा कार्य बालाजी इंजिनियरिंग, पालनपुर द्वारा संतोषजनक तरीके से किया गया है। सेलिको एग्रो आर्गेनिक्स प्रा. लि. के संस्थापक और सीईओ श्री परेश पटेल का कहना है कि बालाजी इंजिनियरिंग ने हिम्मतनगर स्थित उनके अरंडी तेल निष्कर्षण प्लांट का पूरा कार्य स्थापना से लेकर उत्पादन आरंभ करने तक बालाजी

श्री परेश पटेल
सेलिको एग्रो आर्गेनिक्स

श्री गणेश यादव ऑफ मै. बाला जी इंजीनियरिंग, पालनपुर

इंजिनियरिंग, पालनपुर ने टर्नकी आधार पर किया है। उल्लेखनीय है कि सेलिको एग्रो आर्गेनिक्स ने हाल ही में हिम्मत नगर में 250 टन दैनिक की क्षमता की सीड क्रशिंग, 100 टन दैनिक की क्षमता का कंटीन्यूअस सालवैन्ट एक्सट्रैक्शन प्लांट, 100 टन दैनिक की क्षमता का अरंडी तेल रिफाईनिंग प्लांट, 700 टन क्षमता के तेल भंडारण टैंक, 100 टन दैनिक क्षमता का डीओसी हैंडलिंग सिस्टम, 100 टन दैनिक का हाई प्रोटीन सेपरेशन के प्लांट का शुभारंभ किया है।श्री पटेल का कहना है कि बालाजी इंजिनियरिंग, पालनपुर द्वारा टर्नकी आधार पर तैयार किए गए इस प्लांट के सभी विभाग संतोषजनक ढंग से कार्य कर रहे हैं और प्लांट में बिजली खपत कम होने के साथ ही खल को प्रोसस करने के लिए हैक्सन लॉस भी 1.50 लीटर प्रति टन है।

उनका कहना है कि कम्पनी की बिक्री पश्चात की सेवाएं भी सराहनीय है और हम अन्य को भी उक्त कम्पनी की सेवाएं लेने की सिफारिश करते हैं।

OUR SUCCESS PARTNERS/CLIENTS

Balaji Engineering

GNFC

mhoi
mavji haribhai oil cake industries

Amee
CASTOR & DERIVATIVES LTD.

Rajgor Proteins Limited
DEV GREEN

PATIDAR PRODUCT

Castrochem

SINCE 1950
Divya Corporation

Friends Group

Castrogene Chemtech

VRS
VAISHNODEVI REFOILS & SOLVEX

Shri Ram
export industries

Kisan Food
Products

Dhanvarsha
Oil Mills (P.) Ltd.

Shri Ram Oil
&
Chemical Industries
(Castor Oil Manufacturer)

SCPL
It's just more than Oil

NILKANTH AGRO SOLVEX PVT. LTD.

VINOD
Agro Industries

BALAJI
CASTRO SOLVEX PVT LTD

MODERN MILLER LTD.
Natural

ShivamAgro

Nile