

**27 YEARS+**  
OF EXCELLENCE

Turnkey  
Solution  
POST-HARVEST  
PROJECTS



Turnkey Solution | Refrigeration System | Food Processing Equipment  
French Fries/Speciality Product Processing Equipment | Dairy Processing Equipment  
Sea Food Processing Equipment | Cold Chain Solution | Cold Storage | Material Handling Equipment



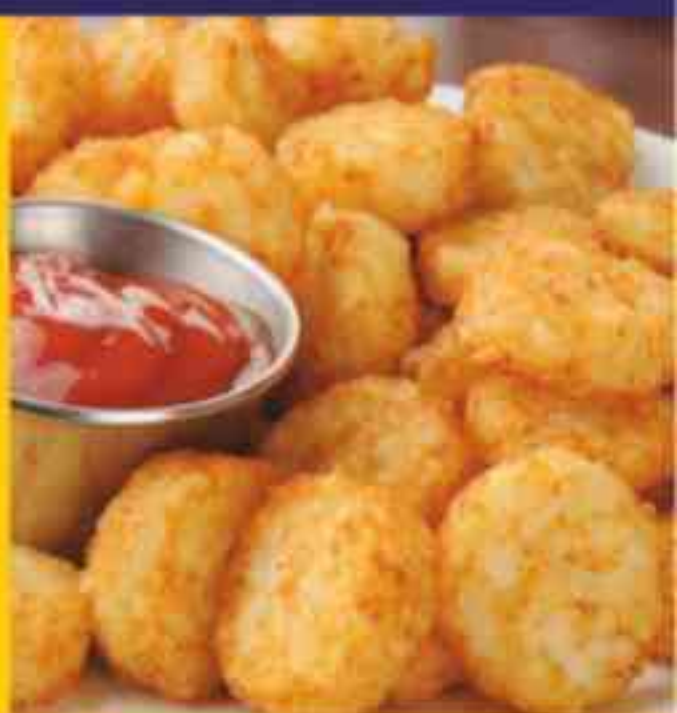
**Natural Storage Solutions Pvt. Ltd.**  
*Your Reliable Partner For Post Harvest Projects*

[www.nsspl.in](http://www.nsspl.in)



27  
YEARS +

excellence  
constant innovation  
unparalleled service





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# Our Vision and Policy

Natural Storage Solutions Pvt. Ltd. has been engaged in providing turnkey solutions for various types of post harvest projects within India and across the globe. The company has more than two decades of experience and established itself globally as a quality player in this field and relentlessly drives for better. We strive to provide our customers with satisfactory solutions which help them gain trust and refer us to other customers.

## Our Vision

We provide latest technology base cost effective state of the art post harvest solutions which helps them to succeed in competitive market. NSSPL has always aligned with changing technology and continuously upgrade its manufacturing facility to produce highest quality systems which are eco-friendly, low operating and user friendly for its valued clients.

## Our Policy

NSSPL's core strength is it's young dedicated and passionate workforce which is ready to meet any challenges. NSSPL always strive to improve output of each employee by giving them full support with pleasant work environment. We continuously engage ourselves in providing excellent after sales service to our valuable customers. NSSPL is engaged with various leading brands and key technology providers across the globe to bring best solutions for each project which benefits farmers and end users. By using cutting edge technology NSSPL contributes its support to reduce the post harvest losses thereby serving the society and nation.



Yogesh Dahiya  
Managing Director  
Natural Storage Solutions Pvt. Ltd.



## Refrigeration System



## Screw Compressor Package with GEA Grasso Compressor

NSSPL provides turnkey solutions for a wide range of refrigeration systems tailored to various applications. Our refrigeration systems are meticulously designed with a focus on safety, energy efficiency, and optimal performance. We prioritize minimizing maintenance costs while ensuring reliable and consistent operation. Each system is engineered to meet the specific needs of different industries, whether for cold storage, food processing, or other temperature-sensitive applications. NSSPL ensures that the refrigeration systems provide long-term value and operational efficiency for all types of applications.

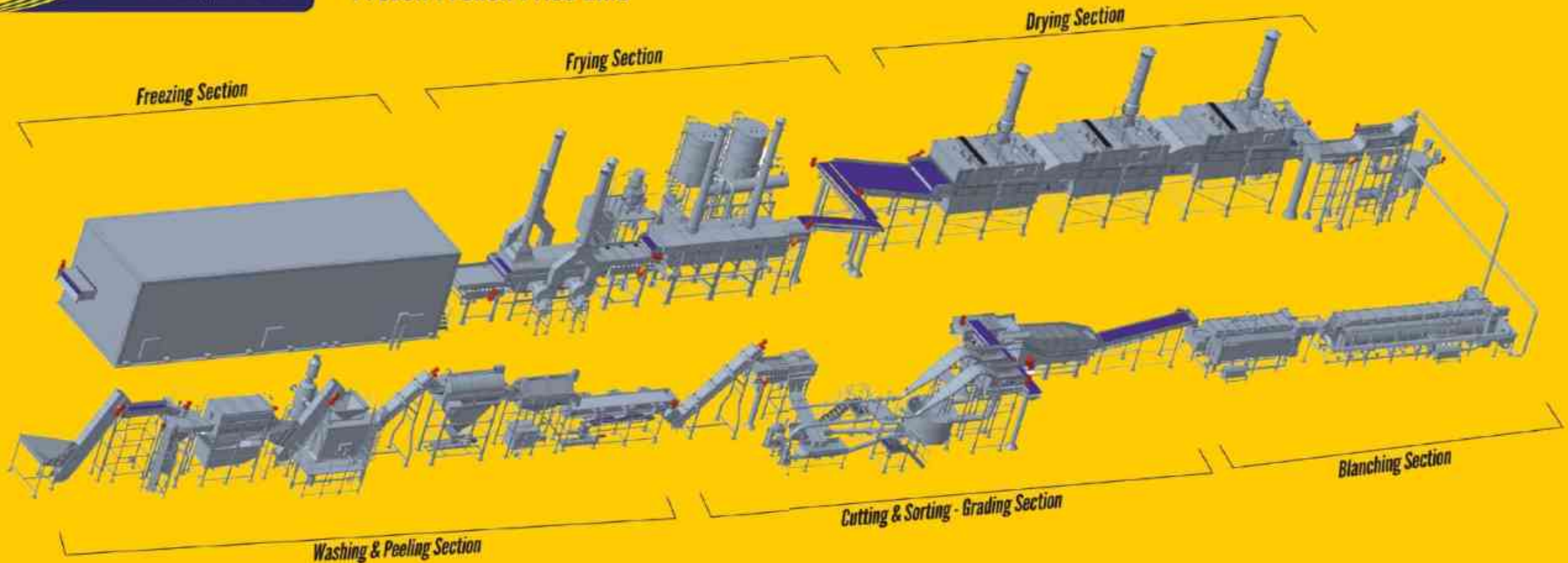
### NSSPL Provides Refrigeration Solutions for

- Food Processing Unit
- Dairy Processing Unit
- Sea Food Processing Unit
- All Types of Cold Storage
- Pharmaceuticals and Chemical
- Customized as per any Specific Application

**NSSPL is a GEA Grasso Authorized Screw Compressor Packager.**



## Frozen French Fries Line



## Frozen French Fries Line

NSSPL is a trusted provider of turnkey solutions for Frozen French Fries Processing Lines, offering expertise in every stage of the production process. From Raw Material Handling to Washing, Peeling, Cutting, Drying, Frying, and Packaging, NSSPL delivers a complete range of cutting-edge equipment under one roof, ensuring seamless integration and superior product quality.

NSSPL also provides tailored solutions to meet specific client requirements, backed by expert project management from design to commissioning and ongoing support.

## French Fries Line - Equipment Manufactured By NSSPL

- **Receiving Section:** Reception Conveyor / Box Tipper / Bunker / Pre Sorter / Shake Grader
- **Feeding Section:** Cyclone Destoner / Potato Washer / Weighing Hopper / Auger Conveyor
- **Peeling Section:** Steam Peeler / Brush Peeler / Abrasive Peeler/ Potato Drum Washer / Roller Inspection Belt
- **Cutting Section:** Diameter Sizer / Water Knife/ Mechanical Cutting System
- **Grading & Inspection Section:** Vibratory Conveyor / Sliver Remover / Nubbin Eliminator
- **Blanching Section:** Auger Type Blancher / Screw Type Blancher / Bolt Type Blancher
- **Drying Section:** De Watering Shaker / Dryer
- **Frying Section:** Fryer / Defatting Shaker
- **IQF:** Tunnel Freezer

### Advantage NSSPL:

- We deliver optimal project costs without sacrificing quality.
- Extensive experience in integrating projects with advanced automation.
- A comprehensive solution with full responsibility from start to finish.
- Our skilled engineers and technicians ensure precision at every stage.
- We provide ongoing support during plant operations for seamless performance.
- 24/7 after-sales service ensures continuous support.



## Dairy Processing Equipment



## Dairy Processing Equipment

Unlock the full potential of your dairy processing operations with NSSPL's advanced turnkey solutions and project management services. From innovative design and precision manufacturing of key equipment to seamless system integration, installation, testing, and commissioning, we manage every aspect of your project.

NSSPL offerings include milk storage tanks, homogenizers, dairy separators, CIP systems, IBTs, tunnel/spiral freezers, refrigeration systems, packing systems, transfer conveyors, and frozen chambers, all designed to elevate your dairy processing plant with unmatched expertise and innovation.



## Sea Food Processing Equipment



## Sea Food Processing Equipment

NSSPL is your trusted partner for advanced seafood processing solutions, offering turnkey services and project management. We specialize in designing and manufacturing critical equipment for seafood processing, including conveyors, washers, grading machines, automated deheading lines, soaking systems, blanchers, freezer tunnels, glazers, spiral and blast freezers, packing systems, and transfer conveyors.

NSSPL's cutting-edge automation, energy-efficient technologies, and seamless system integration ensure smooth installation, testing, and commissioning, driving your operations to new heights of performance and sustainability with unmatched innovation and efficiency.



## Frozen Fruit and Vegetable & Vacuum Freeze Dried Equipment



## Frozen Fruit and Vegetable & Vacuum Freeze Dried Equipment

NSSPL provides advanced turnkey solutions for frozen fruits and vegetables processing and vacuum freeze-drying, designed to meet the demand for high-quality preserved produce. NSSPL's technology preserves freshness, nutrition, and flavor while maximizing shelf life. With energy-efficient systems and precise controls, our lines deliver superior freezing results, while our freeze-drying equipment maintains texture, color, and nutrients with minimal loss. With NSSPL's solutions, you can achieve superior product quality, greater operational efficiency, and sustainable processing methods.

### Equipment Manufactured/Offered by NSSPL

- Green Peas / Corn Processing Equipment
- All types of conveyor systems
- Washer
- Cutter/Slicer
- Blancher
- Freezer tunnel / Spiral / Blast Freezer
- Vacuum Freezer Driers
- Packing system / Transfer conveyor



## Tunnel Freezer / IQF



## Tunnel Freezer / IQF

NSSPL's Tunnel Freezers/IQF, designed with advanced technology and energy-efficient systems. Featuring modular or stainless steel belts, efficient plenum fans, SS tube coils with Al fins, and high-static fans, our freezers ensure rapid crust freezing and reduced dehydration.

NSSPL Tunnel Freezers feature ASR (Air Snow Removal) and Sequential Defrost Technology for continuous operation without frequent defrosting. Ideal for fruits, vegetables, and seafood, they ensure high-quality results with maximum efficiency. With capacities from 500 Kg/Hr to 5000 Kg/Hr, our freezers are fully customizable to meet your specific production needs.



## Spiral Freezer

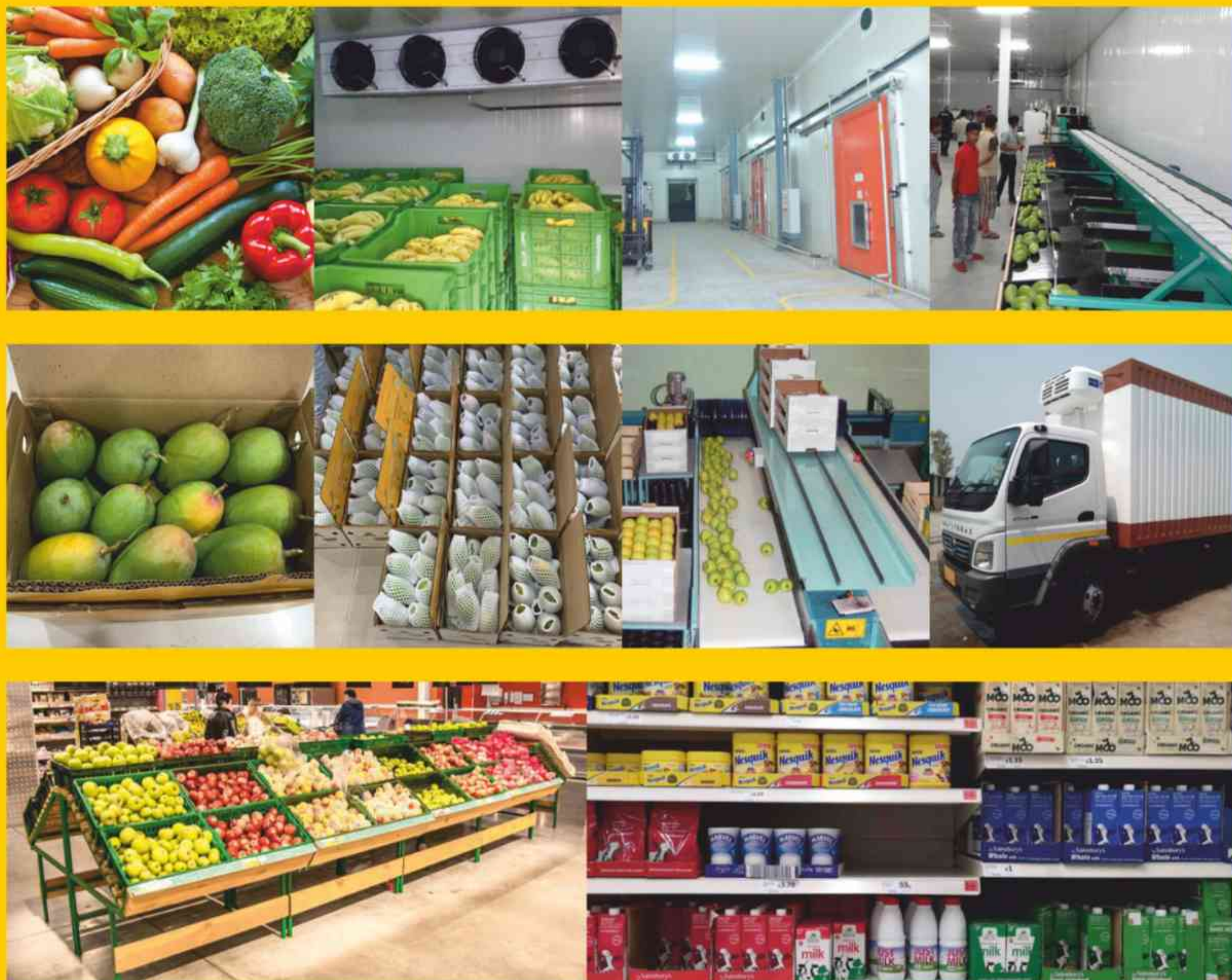


## Spiral Freezer

Experience superior freezing with NSSPL's Spiral Freezer, designed for efficiency and innovation. Its compact, space-saving design ensures fast, even freezing with minimal energy use. Featuring advanced spiral conveyors and high-performance refrigeration, it guarantees consistent quality and maximizes throughput.

NSSPL Spiral Freezers enhance product preservation while reducing operational costs, making them ideal for high-volume food processing. Upgrade your freezing process with NSSPL for unmatched performance and sustainability.





## Cold Chain Solutions

NSSPL's Cold Chain Solutions provide unparalleled expertise in temperature-controlled logistics to storage, serving as the ultimate gateway to dependable and efficient cold chain management. Our comprehensive Cold Chain Solutions are designed to maintain the integrity and quality of your products from farm to destination. With advanced technology and innovative systems, we offer end-to-end support that includes efficient storage, precise temperature control, and seamless distribution.

### NSSPL Cold Chain Solutions Includes...

- Sorting and Grading Line at farm level
- PreCooler at farm level
- Refer Van
- Preprocessing Equipments like Washer/ Waxing M/C / Drier / Optical Sorting and Grading Line
- PreCooler, Staging Room, Cold Storage, Ripening Chambers
- APEDA Approved Pack House
- Packaging Machine for Retail and Bulk



## Bulk / Box Cold Storage



## Bulk / Box Cold Storage

NSSPL's Bulk and Box Cold Storage solutions are meticulously designed to meet the demands of large-scale storage with precision and efficiency. These advanced facilities cater to both bulk and boxed goods, ensuring optimal conditions to preserve the quality and freshness of your products.

NSSPL's advanced temperature control, energy-efficient systems, and robust designs ensure optimal storage for fruits, vegetables, and other sensitive items. Key parameters like temperature, humidity, and CO2 are precisely managed from the start.



## Controlled Atmosphere Storage



## Controlled Atmosphere Storage

NSSPL's Controlled Atmosphere Cold Storage revolutionizes the long-term preservation of perishable fruits and vegetables by meticulously managing not just temperature, but also the levels of gases such as Oxygen, Carbon Dioxide, Ethylene, and humidity. This sophisticated technology slows down the respiration rate of produce, dramatically extending its storage life.

Ideal for fruits like apples, pears, limes, litchis, mangoes, pomegranates, tomatoes, fresh dates, and many more, Controlled Atmosphere Cold Storage ensures your produce remains fresh and vibrant for extended periods, transforming how you think about long-term storage.



## Modified Atmosphere Storage



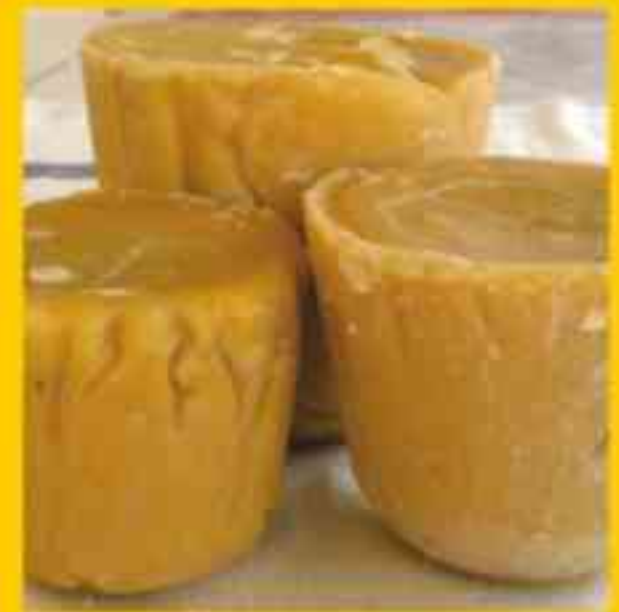
## Modified Atmosphere Storage

NSSPL's Modified Atmosphere Storage offers comprehensive turnkey solutions for the durable storage of root vegetables such as onions, garlic, ginger, carrots, processed potatoes, and similar products. NSSPL's Modified Atmosphere Storage Systems provide precise control over temperature, humidity, CO<sub>2</sub> levels, and air circulation, ideal for maintaining sugar levels in processed potatoes and meeting industry demands.

NSSPL's insulated, leak-proof buildings provide optimal humidity control, ensuring ideal storage conditions. An efficient stacking system further enhances storage optimization.



## Temperature Controlled Storage



## Temperature Controlled Storage

NSSPL's Temperature-Controlled Storage solutions ensure precise temperature management for products such as pulses, grains, spices, dates, jaggery, and dehydrated items, maintaining their freshness and quality.

Leveraging advanced technology, NSSPL creates stable environments that preserve product integrity and extend shelf life, even for sensitive items like pharmaceuticals. Additionally, the company offers material handling systems tailored for large-scale operations, with turnkey storage capacities ranging from 1,000 MT to 50,000 MT.



## Blast Freezer and Frozen Storage



## Frozen Storage & Blast Freezer

NSSPL's Blast Freezer and Frozen Storage Systems ensure high efficiency and quality preservation by rapidly freezing products like seafood, meats, fruits, and vegetables, maintaining their flavor, texture, and nutritional value. With advanced insulation and energy-saving technology, the frozen storage offers long-term, reliable protection at temperatures between  $-18^{\circ}\text{C}$  and  $-40^{\circ}\text{C}$ . NSSPL's expertise includes designing various stacking systems and providing efficient refrigerant overfeed systems that require minimal maintenance, ensuring dependable, long-term storage solutions.

### Various types of material stacking system used in frozen storage:

- Multi Floor Mezzanine Structure
- Drive-in Rack System
- Double Deep Rack System
- Shuttle Rack System
- Mobile Rack System



## Pack Houses with Sorting and Grading Line

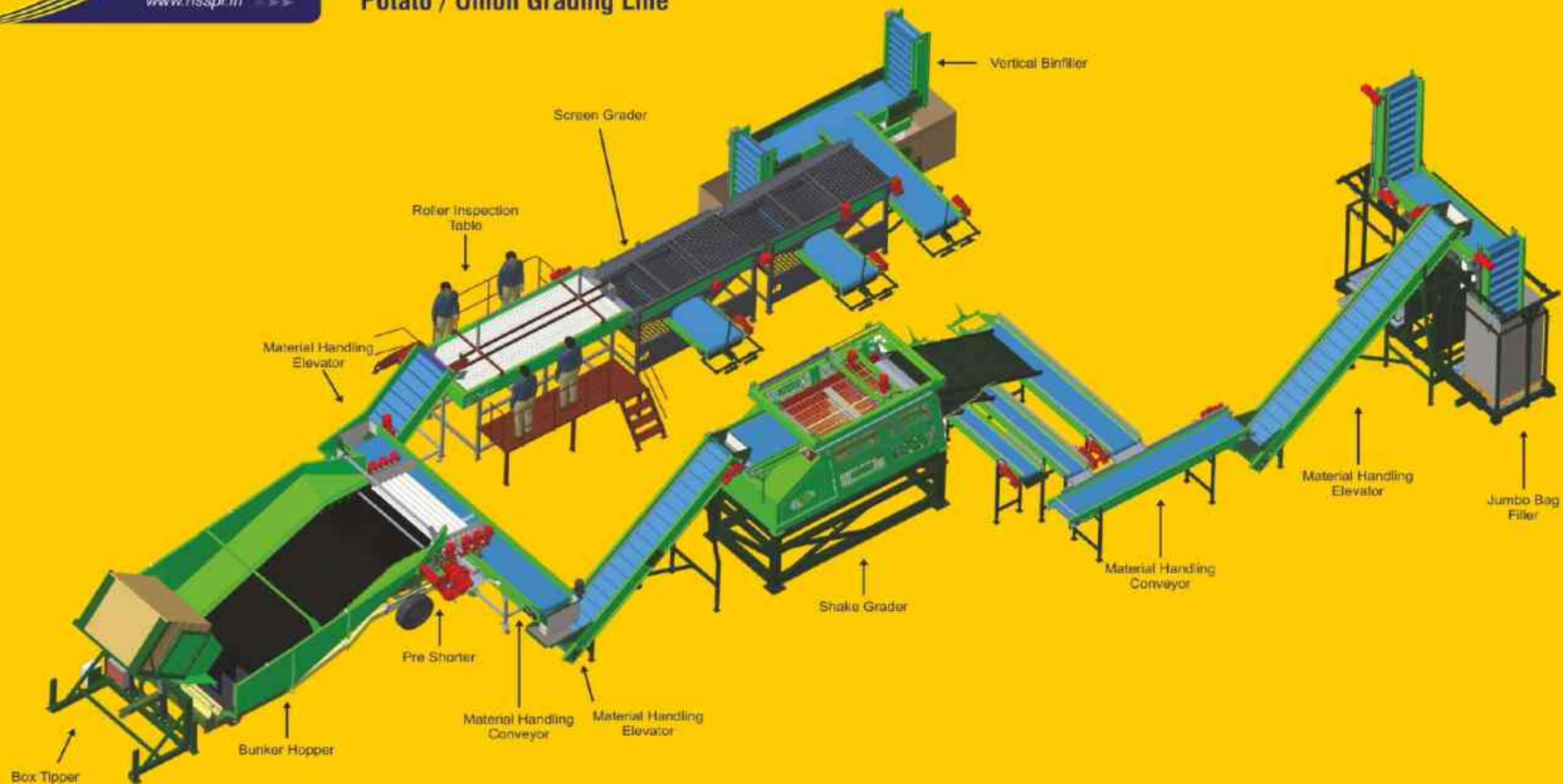


## Pack Houses with Sorting and Grading Line

NSSPL provides a complete Pack House solution equipped with advanced Sorting and Grading Lines designed for efficient post-harvest handling. These automated systems classify fruits and vegetables by size, color, and quality, ensuring high accuracy, faster processing, and significant labor cost reduction. From washing and sorting to packing, NSSPL's Pack House solutions streamline operations, enhance post-harvest productivity, and maximize the market value of the produce.



## Potato / Onion Grading Line



## Potato / Onion Grading Line

NSSPL's Potato/Onion Grading Solution offers customizable machinery for every production stage. Our equipment includes loading/unloading systems, advanced sorting and grading machines, efficient washing systems, precision weighing machines, and automated bagging and packaging lines.

Designed to meet unique customer needs, these solutions ensure optimal performance and streamlined productivity.

## Salient Features

- Soft and Gentle potato/onion handling system.
- Fully automated material handling system with minimum human intervention.
- Robust design ensures material handling system with minimum human intervention.
- NSSPL offer the solution in various types of material and control as per client's requirements



## Potato Handling Equipment



## Potato Handling Equipment

NSSPL provides a comprehensive range of Potato Handling Equipment aimed at optimizing the movement of potatoes. Our offerings include conveyors, store loader, bunker, pick-up scooters, and box trippers, ensuring seamless handling at every stage.

Designed for durability and precision, our equipment minimizes damage to potatoes while maximizing throughput, making it suitable for both large and small-scale operations.

### NSSPL provides material handling for...

- Potatoes
- Onion
- Carrot
- Garlic
- Lemon
- Avocado
- Pears
- Oranges
- Pomegranates
- Pineapple



# Potato Harvester



**BHARAT 112-21**



## Potato Harvester

Bharat 112-21 is a single row bunker type automatic potato harvester. It is one of it's kind in India. Bharat 112-21 is driven by hydraulics and can run with tractor above 50 HP. The compact design and hydraulics axle helps in maneuvering quickly even in small fields.

It consists of ergonomic inspection table and 2 tons bunker for storage of potato. The machine is designed to separate clods, haulms and stones accurately resulting in clean harvest. It is an ideal harvester for Indian fields with maximum automation to ease the process.



## Turnkey Packaging Solutions



## Turnkey Packaging Solutions

In a collaboration with VH Vertical, NSSPL delivers state-of-the-art turnkey packaging machine solutions with a variety of resealable packaging choices. VH Vertical's innovative technologies deliver high-quality packaging with attractive designs and enhanced functionality.

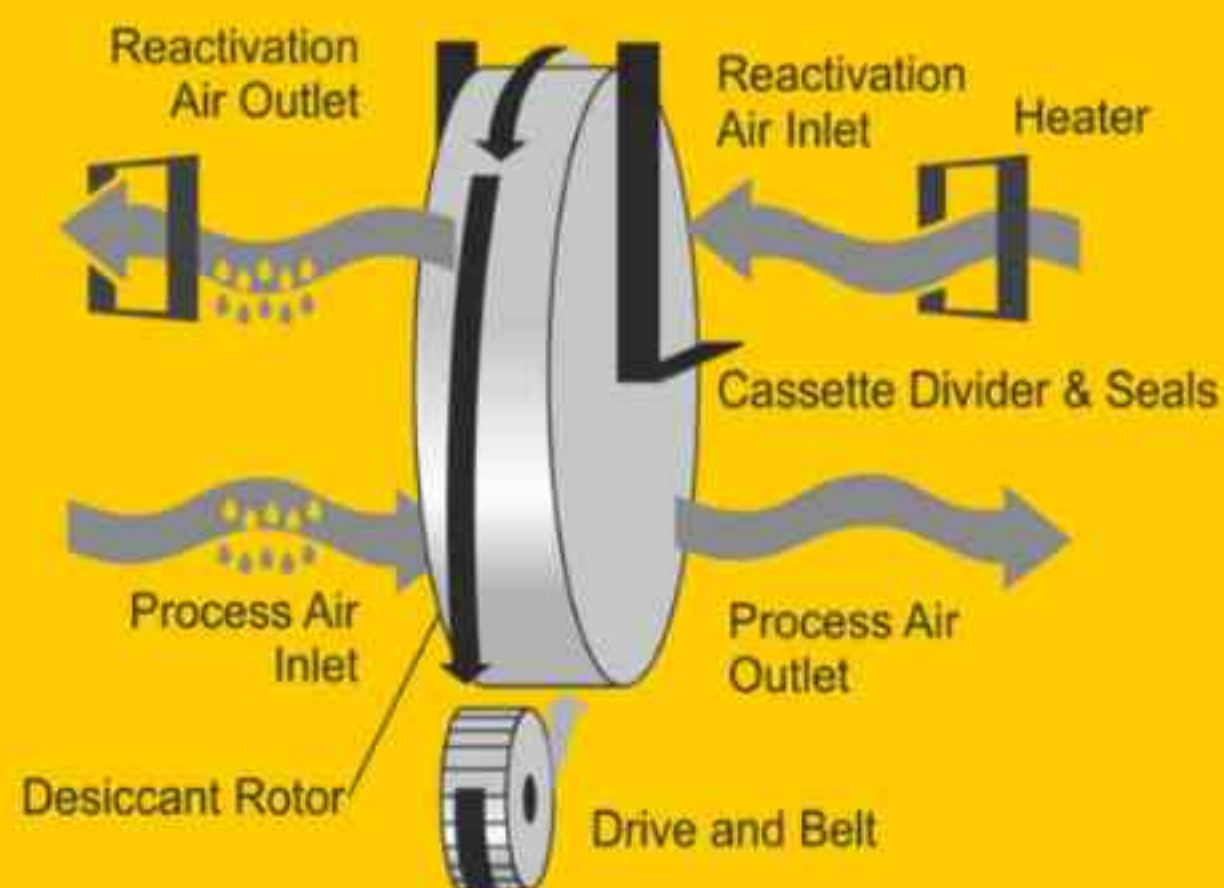
The advanced operating system is user-friendly and is powered by a central servodrive that controls three axes, ensuring smooth and efficient operation. VH Vertical machines offer a variety of packaging styles, including 3-Side Sealed Bags, Brick Bags, Corner Creased Bags, Easy Doy, Quad Seal, Flat Bottom Bags, Flex Cans, Gusseted Bags, Pillow Bags, and Stand-Up Pouches.



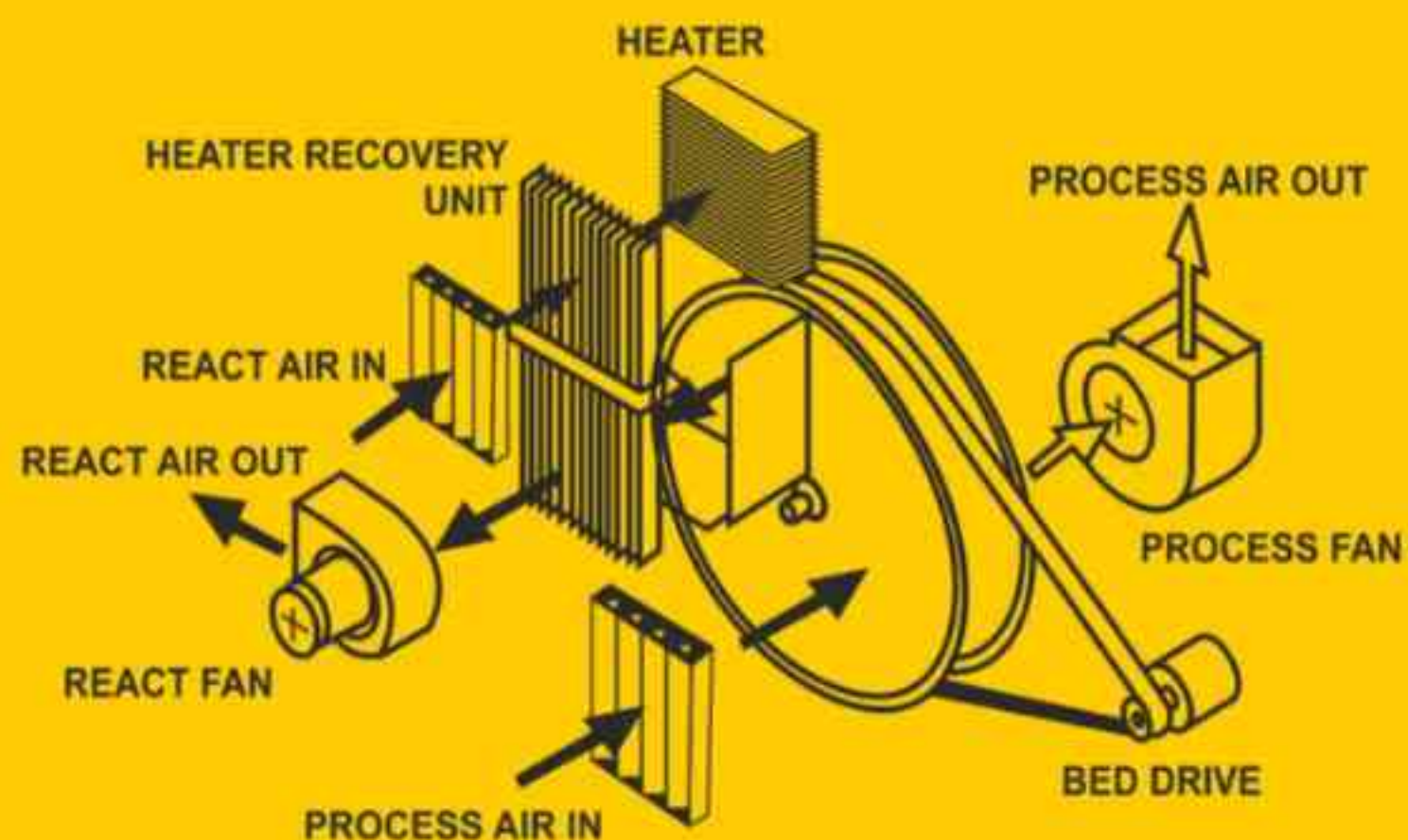
## Dehumidifier



Principle of Operation



Major Components



## Dehumidifier

We provide desiccant rotor dehumidification systems which very effectively removes moisture from the desired area. This allows operation team to control humidity precisely and consistently in industrial processes to very low levels. NSSPL Dehumidifier capacity starts from 3000 CMH to 16000 CMH

### Application

- Pharmaceutical Industries
- Food Industries
- Glass Industries
- IT Server Room
- Lithium-Ion Battery Production

It can be customized as per customer's requirements for any industrial desiccant dehumidifier application.

NSSPL Dehumidifier are modular and can be integrated with AHU, HVAC and Chiller systems of the plant.





## Manufacturing Facility

The NSSPL Manufacturing Facility is the epicenter of innovation, precision, and excellence, creating world-class cold storage and food processing equipment. Our facility is equipped with cutting-edge machinery and technology to satisfy the highest quality and efficiency standards.

NSSPL has made a strategic investment in the flagship plants spread across 1,35,600 Square Feet where Production Unit-1: 42,000 Square Feet and Production Unit-2: 93,600 Square Feet to transform it into a world-class manufacturing facility with new flexible techniques, enhanced process efficiency methods and new technologies.

From design and fabrication to assembly and testing, every step of the production process is precisely executed, guaranteeing that each piece of equipment satisfies global performance and durability standards.





## Manufacturing Facility

NSSPL's Manufacturing Unit - 1 focuses exclusively on producing Mild Steel (MS) equipment, adhering to the highest quality and durability standards. The state-of-the-art facility features advanced technologies, including EWM welding machines from Germany, known for their precision.

Additionally, the unit includes a specialized surface treatment facility with shot blasting for superior finishing. It is equipped with a Vertical Machining Center (VMC), a radial drilling machine capable of drilling up to 100 mm, band saws, and other advanced machinery for precise fabrication and assembly.

For efficient material handling, NSSPL employs two Electric Overhead Traveling (EOT) cranes, each with a 7.5-ton capacity, facilitating smooth movement of materials throughout production. These capabilities enable NSSPL to provide world-class manufacturing solutions that meet clients' exacting demands.





## Manufacturing Facility

NSSPL's Manufacturing Unit-2 is a state-of-the-art facility dedicated to producing stainless steel (SS) equipment. It integrates all production processes—from sheet cutting to bending, welding, and glass beading—under one roof, ensuring consistent quality, precision, and efficiency.

With advanced machinery and a skilled workforce, NSSPL delivers high-quality SS products essential for cold storage and processing solutions. Additionally, NSSPL boasts a cutting-edge research laboratory focused on post-harvest technology. Equipped with advanced tools, our team conducts thorough testing on fruits and vegetables to optimize storage parameters like temperature, humidity, and gas composition.

This research enhances the shelf life of perishables, helping farmers, distributors, and retailers maintain freshness. By continually studying produce behavior in storage, our lab refines storage solutions to keep clients updated with the latest advancements in post-harvest science.









www.nsspl.in

## NSSPL Global Partners



ISOLCELL ITALIA S.p.A. Società unipersonale  
Via A. Meucci, 7-39055 Laives (BZ) - Italy  
Tel. +39 0471 95 40 50 E : isolcell@isolcell.com

### CERTIFICATION



ISOLCELL ITALIA S.p.A. is Proud to appoint and certify  
**NATURAL STORAGE SOLUTIONS PVT. LTD.**  
as it's official distributor in the territory of INDIA  
for the sale and distribution of Controlled Atmosphere Equipment.



Your Reliable Partner For  
Post Harvest Projects...

*Giorgio Pruneri*

ISOLCELL ITALIA S.p.A.  
Giorgio Pruneri - CEO

### CERTIFICATION

Perizia Iva e codice fiscale: 00571570216 - Numero REA: BZ 90896 - Capitale sociale: € 1.300.000 i.v.  
iscritta all'Albo laboratori di ricerca in art. 4 legge 48/92 per conto del Ministero dell'Università e Ricerca Scientifica e Tecnologica.

## Certificate Authorized Integrator

It is herewith certified that



**M/s. Natural Storage Solutions Pvt. Ltd.**

Block No : 225/P, Near Somany Ceramic Godown,  
Chhatral-Kadi Road, Dhanot - 382729,  
Ta : Kalol, Dist. : Gandhinagar, Gujarat India.

is entitled by Alfa Laval to use "Authorized Integrator" related to  
the sales of Alfa Laval Heat Exchanger Equipment and also  
certifies that they have the knowledge and competence to  
select and advice Alfa Laval  
Heat Exchangers for Cold Storage Application.

*Pratik Lele*  
**Pratik Lele**  
Business Manager  
West India

*Anson John*  
**Anson John**  
Regional Sales Manager  
MENA & Asia

### AUTHORIZED DEALER

FOR INDUSTRIAL VENTILATION, INC.  
723 E. KARCHER RD. NAMPA, IDAHO 83687 USA

### THIS CERTIFICATE AUTHORIZES

*Natural Storage Solutions Pvt. Ltd.*

Block No. 225/P, Chhatral Kadi Road, Dhanot  
Tal.: Kalol, Dist: Gandhinagar, Gujarat, India

TO SELL AND SERVICE EQUIPMENT FOR INDUSTRIAL VENTILATION, INC.  
INCLUDING CONTROL PANELS, FRESH AIR DOORS, HUMIDIFIERS, HUMIDCELLS, REFRIGERATION UNITS.

IV1096  
CERTIFICATE NUMBER



October 1, 2019  
DATE ISSUED



October 1, 2024  
DATE EXPIRED

*Frank H. Bushman*  
**FRANK H. BUSHMAN**  
PRESIDENT



Engineering  
for a better  
world.



We have executed turnkey projects across the globe



Our Valuable Clients

|  |   |  |   |   |   |
|--|---|--|---|---|---|
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