





Shelf Life Extension Solutions

Reduce Dump rate by 30%





Biggest Range of Shelf life extension products worldwide

## About us

## About us



#### 5X Shelf life

Increase fruits, vegetables and flowers life











#### Global Support

We are available in 45 countries globally

#### Who are we?

Keep-It-Fresh is a registered Start-Up with Govt. of India working on increasing the shelf life of fresh produce. Keep-It-Fresh utilises several packaging technologies in combination for shelf life extension that reduces ethylene levels and lowers the respiration rate

#### **Products**

Anti-Microbial Films, Pads and Papers
Ethylene Adsorbers
Moisture Adsorbers
Oxygen Adsorbers
Modified Atmosphere Packaging
Sulfur Dioxide Release Packaging
Ethylene Filters
Ethylene Scrubber Machines

#### Standard we comply to!

Keep-It-Fresh products are FDA, BRC and Reach compliant Keep-It-Fresh products are free of any harmful chemicals that are applied on Fresh Produce

#### Mfg Plants













California, USA KIF USA

LICENSE PARTNER

LICENSE PARTNER





SALES MANAGERS PAN INDIA AND IN POLAND, SPAIN, CHILE,

POLAND, SOUTH AFRICA, VIETNAM, SAUDI ARABIA, UAE, SRI LANKA, TURKEY, UKRAINE

4 PATENTS APPLIED

RECOGNIZED BY PUSA KRISHI, DELHI UNIVERSITY.



MFG PLANT

Delhi, NCR

WAREHOUSE



MFG PLANT









## Global Sales Team





Jaz Manak CEO, USA

Founder USA



Ashley H. CEO, UK



Mark T. MD Preservation



Shawn B. Director Canada



Stephen B. MD Germany



Sid Sareen Director Technical



areen Mukul Sareen
ector Director
nnical Global Sales
Primary Founders



Monika G. MD East Europe



Eduardo Head Sales Mexico



Leonard P VP Sales USA



Asif A Head Sales East Europe



Horacio R. Head Sales Latin America



Ahmet Head Sales Turkey



Phillipps W. Head Sales Oceanic



Antoine B Head Sales France



Jhong Z Head Sales China



Dieter Head Sales South Africa



Ela C. Manager Customer Care





Export to 15+ countries

## Clients



































+ Over 200 clients in India

## **Target Customers**





#### **F&V Exporters**

Example Desai, Mahindra Farms, Dole,



#### **Ecommerce and Retailers F&V**

Example - Milk Basket, Reliance Fresh, Big Basket



#### **Cold Stores**

Example – Supreme Agro, More Retail, Suri Fresh etc



#### Home

Example - Spencers, More, Metro Cash and Carry Etc









100% products we make are recyclable 70% are compostable



## Our Presence







Distributor Developed In last 1 year













Vietnam

Ukraine

Mexico

Indonesia







Sri Lanka



**Ecaudor** 



Poland



Chile





USA



Italy













Turkey



Germany







France

Philippines



Australia

## **Exhibitions Participation**









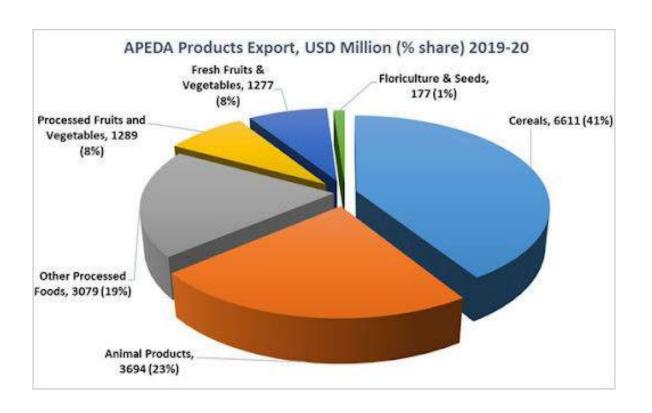






## Indian Exports





- India's share in the global market is still nearly 1% only, there is increasing acceptance of horticulture produce from the country.
- According to FAO (2019) the country ranks first in production of Bananas (26.08%), Papayas (44.05%) and Mangoes (including mangosteens and guavas) (45.89%).

## News & Media





















**Forbes** 





# Manufacturing Today & EXPRESS



Industry Speak



#### 1 WHAT IS THE THOUGHT BEHIND DR BIO BEAND? 16-Tech group is a 26 years old manufacturer of

He then group is a 20 years old manufacturer of a massive further action and fifth and hidded vehicled a new rappe of memorials and comparable tool hasels bapplymen. It has been our vision to have been a second or manufacturer of the com-traction and feature everyone-small amplitations. Our hop polymens are professed from contract in the against last exist require of Possiple and are overhald as of countries. It Profit bridge consistential of countries. It Profit bridge consistential the generalized passes impact, minimize the presentance passes, impact, minimize the presentance passes. Impact, minimize the place of minimized contribution of presenta-tion of immediate company and to vehicle the placetic vasion in the environment.

2 HOW CHALLENGING IS IT TO CONCEIVED IN A LAB?

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#### SUPER HIT PRODUCT WHAT ARE INITIAL HICCUPS YOU ENVIEWEE?

on which the recedible plants have been in use

Four Marketing & Suchestage 41 Supporter 2021

#### 4 HAS THE PRODUCT BEING LAUNCHED IN THE MARKET OR IS IT AT THE STAGE

GWAAT ARE ITS APPLICATIONS IN THE POOD INDUSTRY?

The annufactorus but degralished polymer and setting it to pucklight building. The up qualities of machinery in require for users using the first polyment we insundentuse packaging insured according to the need for sustrems. The grodusts uffeed by the company awaies on different better intendight fees company awaies on different better and the property of the pr OF GETTING THERET IF NOT PLEASE DEFINE THE TIME LINE. NE THE TIME LINE.

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SMBSTORY

#### How this Gurugram-based company is solving plastic waste problems with its bio-polymers

Solving plastic waste problems with bio-polymers



similaruse and multiums stantic orodicts such as bottles, straws, curs

FINANCIAL EXPRESS

Bio-polymers: Smart solution for solving the plastic waste problem

360



Gurgaon-based Firm Begins Making Biopolymer from Corn Starch

**PUSA KRISHI** 





Fored Marketing & Tocheschapy 4D Stratember 2027



## The Technology

Ethylene

MAP

SO2

Oxygen

## What do we control



Ethylene Oxygen CO2 Moisture Fungus SO2 release











Dum<sub>|</sub>
Shelf life

#### **Dump ratio reduction**

Shelf life extension solutions using Ethylene Adsorption, Modified Atmosphere Packaging, Anti Microbial packaging, SO2 gas release, & Oxygen absorption.

02

#### Pressure maintenance of fruits and vegies

Maintain the fruit pressure and hardness for a longer period of time

03

#### **Fungal growth reduction**

Improvement in quality of fruits to ensure they do not get contaminated on the shelf

04

#### **Cost reduction**

Provide extensive cost reduction based on improvement in shelf life

05

#### Geographical sales area expansion

Increases life of fresh products to enable you sell long distance nationally and internationally









## **Patents**





Shelf life extension



- 2. Boxes
- 3. Paper
- 4. Packaging Film
- 5. Anti Microbial Packaging

## The Ethylene Problem



- Ethylene is a gas naturally produced by fruit as it ripens
- Ethylene works as an accelerator to the ripening process
- Ethylene increases ripening exponentially
- Ethylene adsorbers reduce the ripening rate by adsorbing the ethylene molecules.
- Ethylene molecules form a bond with the keep-itfresh additives and are trapped

#### **Ethylene Producing Fruits & Vegetables**

	Ethylene	Ethylene
Fruits & Vegetables	Emission	Sensitivity
Apples	High	Yes
Apricots	High	Yes
Avocados, ripe	High	Yes
Avocados, unripe	Low	Yes, Very
Bananas, green	Low	Yes
Bananas, ripe	Medium	No
Blackberries	Very Low	No
Blueberries	Very Low	No
Cantaloupe	Medium	Yes
Cherries	Very Low	No
Cucumbers	Very Low	Yes
Endive	No	No
Figs	Low	No
Grapefruit	Very Low	No
Grapes	Very Low	Yes
Guavas	Medium	Yes
Kiwi, ripe	High	Yes
Kiwi, unripe	Low	Yes, Very
Lemons	Very Low	No
Limes	Very Low	No
Lychees	Very Low	No
Mangoes	Medium	Yes
Melons, Honey Dew	Medium	Yes
Nectarines	High	No
Okra	Very Low	Yes
Oranges	Very Low	No
Papayas	Medium	Yes
Peaches	High	Yes
Pears	High	Yes
Pineapples	Very Low	No
Plums	High	Yes
Prunes	High	Yes



## **Products**





#### **Products**

#### KIF Sachets



KIF sachets and are available in variants of 5 gm and 10 gm. Our sachets have the unique ability to absorb ethylene and control



#### KIF MAP BAGS



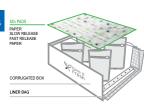
atmospheric bags are universally used to pack fruits and vegetables. Our bags are available in custom sizes and printing.



#### KIF Grape & Berry Pads



Pads release SO2 to extend life of produce to prevent it from fungus or mould on the fruit. It can extend shelf life up to 3 months.







#### KIF Scrubbers



Ethylene Scrubber extends shelf life of fruits and veggies & minimizes loss due to decay& eliminates harmful preservation practices that use Nitrogen & Sulphur

#### KIF Filters & Curtains



Curtains and filters are used for single or multiple trips in reefer containers. Usually 2-3 curtains are used for a trip of 7-14 days haulage period.

#### KIF Paper



Paper sheets and small chips are used in bulk boxes or retail boxes to extend shelf life. The paper should cover at least 50% of the top surface.















#### KIF Jiffy Pads



Jiffy Pads protects fruits from physical damages and Ethylene absorbers to reduce respiration rate of fruits

#### Mr Dry Pads



KIF-DRY Absorbent Fruit Pads are designed to absorb moisture and keep the packaging dry to reduce fungal and mould growth.

#### KIF Oxygen Absorbers



Oxygen absorbers are added to enclosed packaging to reduce the level of oxygen in the packaging. They are used to maintain product safety and extend shelf life.

#### KIF Flora Fresh



Flora Power is a clear fresh flower food formulated to hydrate and nourish fresh cut bulb flowers that results in a longer life.









#### Product

#### KIF Sachets



KIF sachets and are available in variants of 5 gm and 10 gm. Our sachets have the unique ability to absorb ethylene and control



#### **TECHNOLOGY**

Ethylene Absorption VBI
Natural Desiccant

#### **Application**

- Fruit corrugated boxes
- Vegetables corrugated boxes
- Fruits and vegetable crates
- Fruits and vegetables bags
- Flower boxes and bag packing
- Punnets and retail packs









#### **SUITABLE FOR**

Mangoes, Bananas, Green Chili, Litchi, Tomato, Apple,





#### **Product**

#### KIF MAP BAGS



KIF modified atmospheric bags are universally used to pack fruits and vegetables. Our bags are available in custom sizes and printing.



#### **Application**

- Retail MAP bags
- Export MAP packaging
- Fruits and vegetable crates
- Flower boxes and bag packing
- Punnets and retail packs
- Vaccum MAP Bags
- Thermo MAP bags







#### **TECHNOLOGY**

Ethylene Absorption CO2 and O2 regulation Moisture Regulation



All fruits and veggies





# How the sachets work Fresh





# Retail bags for home







## Advantages of KIF Bags











WITH KIF





WITHOUT KIF





WITH KIF



WITHOUT KIF



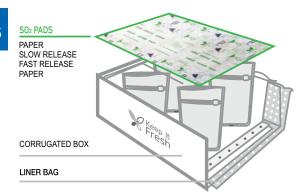


#### **Product**

#### KIF Grape & Berry Pads



Pads release SO2 to extend life of produce to prevent it from fungus or mould on the fruit. It can extend shelf life up to 3 months.



#### **Application**

- Export of grape boxes
- Export of berri boxes
- Punnets and retail packs









TECHNOLOGY

O2 release ngus eliminator

#### **SUITABLE FOR**

Grapes and all berries

## **Laboratory Testing**





Visual representation from the top of SO<sub>2</sub> treated Crimson Seedless grapes after 5w and 8w cold storage (-0.5 °C) + 4d shelf life (10 °C)

Prevents Botrytis Fungus Decay
Reduces stem browning
Maintains Desicated stems
Reduces berry splits
Reduces lose berries
No SO2 damage

Sizes - Active Content 25 x 32 cm - 5 gm 35 x 47 cm - 10 gm 25 x 47 cm - 7 gm 35 x 51 cm - 10/12 gm

Distributed by:





## Grape Pads





**Grapes Packaging Line** 

https://www.youtube.com/watch?v=dX2vAWHFQWg



### Keep It Fresh

# KIF for Avocadoes





## Avocadoes tests











No browning

No Sweating

Hardness maintained

Avoids uneven ripening or checkerboarding

https://www.youtube.com/watch?v=\_I9uPANvpcE



#### Keep It Fresh BerriX Pads









Berri Pads









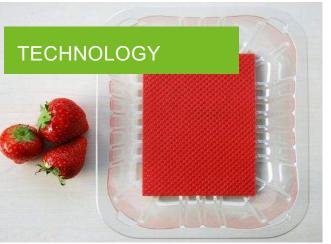
#### **Product**

#### KIF Kiffy Pads



Jiffy Pads protects fruits from physical damages and Ethylene absorbers to reduce respiration rate of fruits





#### **Application**

- Export of fruits boxes
- Domestic shipping of fruits
- Punnets and retail packs

#### SUITABLE FOR

All fruits and veggies















KIF Kiffy Pads

Kiffy pads on apples

Kiffy pads video

https://www.youtube.com/w atch?v=qKbVP5RQJeg



#### **Product**

#### KIF Dry Pads



KIF-DRY Absorbent
Fruit Pads are
designed to absorb
moisture and keep the
packaging dry to
reduce fungal and
mould growth.



#### **TECHNOLOGY**

Moisture Regulation

#### **Application**

- Export of fruits & veggie boxes
- Domestic shipping of fruits
- Punnets and retail packs
- Used inside MAP bags

#### SUITABLE FOR

Suitable for berries, meats and leafy vegetables







## Dry Pads









Dry Pads for meats



Dry Pads for fish



## Dry Pads







- Keeps berries dry
- Reduces fungal growth
- No Adhesives used during manufacturing
- Reduces bruising of fruit





#### Product

#### KIF Scrubbers





Ethylene Scrubber extends shelf life of fruits and veggies & minimizes loss due to decay& eliminates harmful preservation practices that use Nitrogen & Sulphur gas.



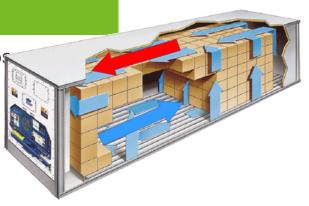


- Fruit cold storage warehouse
- Vegetables storage warehouses





Ethylene Abs VBI

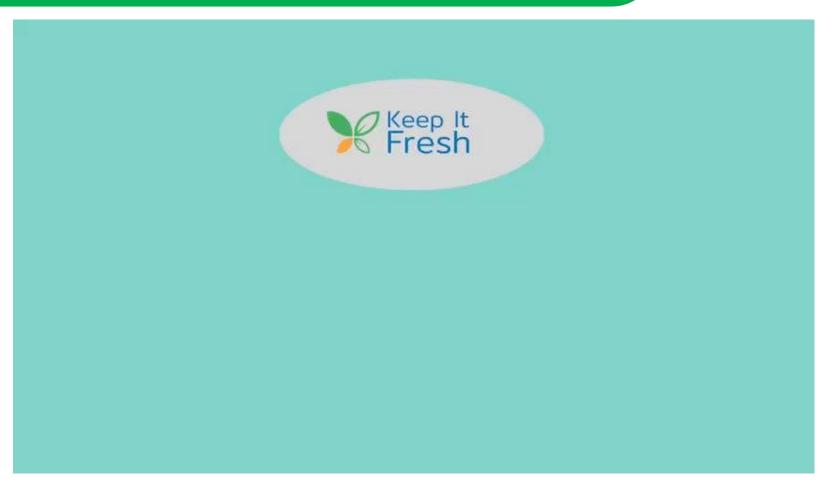


#### **SUITABLE FOR**

Suitable for fruits and veggies cold stores

# How the Machine works Reep It Fresh



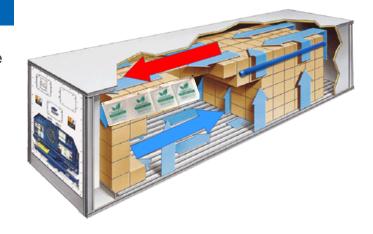




### **Product**

### KIF Filters & Curtains

Curtains and filters are used for single or multiple trips in reefer containers. Usually 2-3 curtains are used for a trip of 7-14 days haulage period.



### **Application**

- Warehouses
- Reefer Containers
- Trucks & Vans
- Cold chambers
- Retail shelves

### **TECHNOLOGY**

Ethylene Absorption VBI

### **SUITABLE FOR**

Suitable for fruits and veggies cold stores





# Ethylene Filters



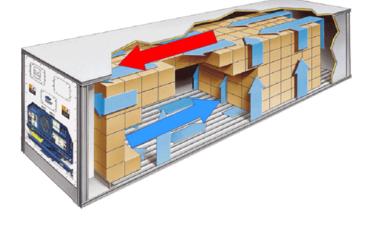




Keep It Fresh

Filters for reefers & cold stores

Filters for retail



### Product

### KIF Paper



Paper sheets and small chips are used in bulk boxes or retail boxes to extend shelf life. The paper should cover at least 50% of the top surface.







### **Application**

- Export of fruit veggie boxes
- Domestic shipping of fruits
- and veggies
- Retail shelf placement
- Punnets and retail packs

### **SUITABLE FOR**

Suitable for fruits and veggies in retail & export



















# Kif for breads

# 12 day trial

















12 day trial of breads

No fungus

No cracking

Maintains freshness

Maintains fresh odour



### **Product**

### KIF Oxygen Absorbers



Oxygen absorbers are added to enclosed packaging to reduce the level of oxygen in the packaging. They are used to maintain product safety and extend shelf life.







# **Application**

- Meats
- Pharma
- Bakery and breads
- Nuts and dry fruits
- Cut fresh fruits







### **SUITABLE FOR**

Meats, Pharma and Bakery



**Product** 

### KIF Flora Fresh



Flora Power is a clear fresh flower food formulated to hydrate and nourish fresh cut bulb flowers that results in a longer life.







# **Application**

- Export of flowers
- Retail of flowers
- Hotels and Resorts
- Extension of life during shipment and storage at homes

Control - Only Water



With Keep It Fresh Floral Fresh





Suitable for flowers





# Dump Ratio Analysis

# **Dump Ratio Reduction**



#### **Snapshot of results**

An extensive trial was done lasting 14 days for supplies from vendor of Big Bazaar to their store in Ambience Mall, Vasant Kunj Delhi and below results were observed



#### **Before Trial**

**Dump Ratio** 

23%

Standard packaging used accounting for heavy losses in dump for 22 articles that were chosen by Big Bazaar (7 weeks Data)

### **During Trial**

**Dump Ratio** 

7.5%

Solutions
implemented that
resulted in high
amount of direct and
indirect savings (2
weeks Data)











# Filter Tubes + KIF Paper





#### Avocado

Reduced dump rate from 17% to 2 %.

Maintained hardness, colour and pressure



#### Kiwi

Reduced dump rate from 28% to 4%.

Maintained Hardness, Colour, Fungus



#### **Pears**

Reduced dump rate from 14% to 3%.

Maintained Hardness Colour and Weight loss



### **Custard Apple**

Reduced dump rate from 28% - 5%.

Maintained Hardness , Colour and Reduced black marks



#### **Apple**

Reduced dump rate from 11 % to 6%.

Maintained Hardness and Colour



#### Peach

Reduced dump rate from 31% to 5%.

Maintained Hardness
Colour and Weight
loss

# Anti Fungal Pads





### Red Grapes

Reduced dump rate from 17% to 2 %.

Maintained hardness, colour and pressure



### **Green Grapes**

Reduced dump rate from 28% to 4%.

Maintained Hardness, Colour, Fungus



### **Dragon Fruit**

Reduced dump rate from 14% to 3%.

Maintained Hardness
Colour and Weight
loss



#### **Mushroom Button**

Reduced dump rate from 28% - 5%.

Maintained Hardness , Colour and Reduced black marks





# Keep It Fresh

Trial performed on Table Grapes at Nashik India to compare the performance Keep It Fresh Grape Pads

# Comparative Results





GRAPES STORED IN COMPETITOR'S PADS



GRAPES STORED IN KEEP IT FRESH PADS



# Competitor's grape pads performance observation:

- Color changed from green to yellow
- Stem browning
- Fungal growth observed
- Water release in punnets
- Odor change
- Change in taste
- Reduced firmness



# **Keep it fresh grape pads performance observation:**

- Greener grapes
- No stem browning
- No fungal growth
- No moisture release
- No foul smell
- No taste change
- Firm







# Certifications

# Certificates





AB-0381-T 1384 00/1P

Report No : 49382558-125.05-576 /1384 Requested by : BIRGEV CEVRE TEXNOLOGILERI SAN TIC LTD STI. : STRAZBURG CAD NO: 23/9 SHHIYE / CANKAYA ANKARA Sample : STRAWBERRY-FRESHIOT O DAY Production Date Parti / Let No.

Number of Samples: 1 Sample handling: By Hand Condition of samples at reception: Information on retention samples Institue sample register no: 19-340/001 Reception date and time : 07/02/2019 15:00:00 Date of the analysis

( ) Sample returns to the costumer Result Net Weight 107.091 g 1:45.98 a:40.21 Digieve Image Analyses b 21.93 AOAC 930.04 Moisture 89.08 g/100g Test Conditions: 4 °C, %35 relative Samo MLR-350 HT Environmenta Shelf Life Study **Test Chamber** 



Origin: Antalya Serik Harvest date: 27.01.2019

is apply and results one not be used for commercial and advertisement purposes by the demanding enterprise or its customers. Complete and this report come for example or purposes. Complete in righted 17 printiples are accordable.

If you report and controlled is provided and or of logisticale.

P.O. Box 21, 41475 GFBZE - KOCAELI / TURKELY T +80,260 877 25 00 F +90,252 641 23 09



CONFIDENTIAL

#### 1. OBJECTIVE

To assess the effect of different packaging on extending the shelf-life of retomatoes during commercial trading conditions.

#### 2. MATERIALS AND METHODS

#### 2.1 Treatments

- Cultivar
  - Dutch tomatoes
- Treatments
  - Standard plastic bag (1 kg)
  - Xtend bag (1kg)
  - KIF 1 16 punch holes (1kg)
  - a KiF 2 hot needle and punch bag (1kg)
- · Storage period for red tomatoes

7 days at 5°C + 6 days at 15°C

Fruit quality evaluations were done on arrival at the ARC, after cold storage an after the shelf-life period. External defects/disorders were assessed for each bag A representative sample of 6-7 tomatoes was selected from each replicate ti measure physico-chemical parameters and assess for internal defects of disorders. Total soluble solids (TSS, expressed at °Brix) was determined with a calibrated refractometer (Pocket refractometer PAL-1, ATAGO Co. LTD, Japan) To measure titratable acidity (TA), 54mL juice sample was titrated against

SGS

TEST REPORT Report No.: MAN:HL:7480003070 DATE: 18th February, 2016

#### HITECH INTERNATIONAL PLOT NO-8 31, SEANT COLONY JAMALPUR EUDHANA-141010

THE REPORTED

CONTACT PERSON : MR: SIGHARTH SAREEN

THE FOLLOWING SAMPLE(S) WAS WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS:

SAMPLE DESCRIPTION KEEP-IT-FRESH BAG COLOUR **GREEN** HI TECH INTERNATIONAL

BUYER COUNTRY OF ORIGIN

SAMPLE RECD ON TEST PERFORMING DATE 09/02/2016 TO 18/02/2016

TEST REQUESTED PLS. REFER TO SUMMARY

TEST METHOD & RESULT(S) PLEASE REFER TO NEXT PAGE(S)

#### SUMMARY OF TEST RESULTS:

TEST REQUESTED	CONCLUSION
US FDA 21 CFR 177.1520 (Olefin Polymers) Maximum Exhiciable fraction Maximum Soluble fraction	Pass

#### Per Pro SGS India Pvt Ltd.



Email your Test Report Related Enquiries at Feedback HLT@sgs.com

Report No.: MAN:HL:1048000742

KEEP IT PRESH LLP B-31 OPP POWER HOUSE; JAMAL PURI, CHANGIGARH ROAD USDHOANA-141130

CONTACT PERSON : WR. SIDHARTH SAREEN

THE FOLLOWING SAMPLE(S) WAS WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS:

DATE:06th February, 2019

SAMPLE DESCRIPTION KEEP-(T-FRESH SACHET (PP PART)

BUYER KEEP IT FRESHILLP COUNTRY OF DESTRUCTION USA COUNTRY OF ORIGIN TEST PERFORMING DATE 30/01/2019 TO 04/02/2019

SUMMARY OF TEST RESULTS:

	CONCLUSION	
TEST REQUESTED		
US FDA 21 CFR 177 1520 (Olefin Polymers)		
i Maximum extractable fraction	Pass	
Mainum solible fraction	Pana	

TEST(S) RESULT & WETHOD: REASE REFER TO NEXT PAGE(S)

Per Pro SGS India Pvt. Ltd. Santap

SANDP BHUSHAN/Asst. Manager)
Email your Test Report Related Enquires at Feedback HLTGags.com





South Africa





# Certifications





#### KEEP IT FRESH LLP

PLOT NO. 18, SECTOR - 6, IMT MANESAR, GURGUAN, GURUGRAM - 122052, HARYANA, INDIA

has been independently assessed by QCAS and found to that company is maintaining its system as per

#### **Global Standard for Food Safety**

For the following scope:

\*Manufacturing of Grape UVAS Pads for release of SO2 in the form of sachets/pouches for use as an active packaging (preservative action) for use in fresh Produce Packaging.\*

Certificate Number: QCAS-KIFL-19-04013

#### To verify this certificate please visit at www.gaafs.u

Date of Certification	21 <sup>th</sup> Oct 201
Issuance Date	21th Oct 20:
1st Surveillance Due	20 <sup>th</sup> Oct 202
2nd Surveillance Due	20th Oct 202
Re-Certificate Due	20 <sup>th</sup> Oct 202





August Sinner

Validity of this Certificate is subject to Annual Surveillance audits done successfully. This certificate remains the property of QAS and must be entured whenever domanded QAS is an independent system product and personal assessment body QLAS is accredited by.



# Financial Overview



# KIF Bio Bags























# KIF for Cut Fruits

















# Grape Bags





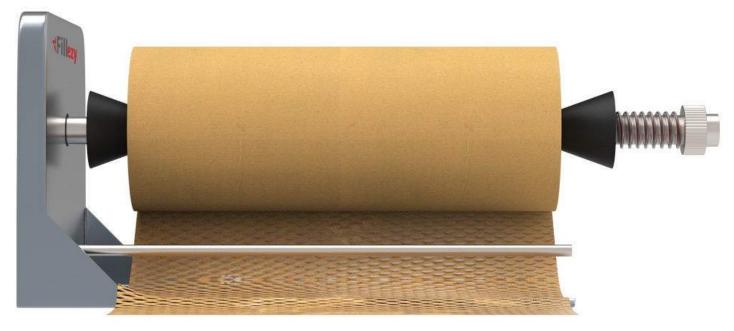




(COMPOSTABLE)

# KIF Hexa Paper





















Shelf Life Extension Solutions

Thank You

Reducing Wastage Improving Profits