



**TECHNICAL APPRAISAL REPORT FOR PROPOSED  
MANUFACTURING FACILITY OF KNACK PACKAGING LIMITED  
FOR THE PURPOSE OF PROPOSED IPO**

**To,  
Board of Directors  
Knack Packaging Limited**

Dear Sir,

In accordance with the appointment letter dated 24<sup>th</sup> February, 2025, we enclose our Technical Appraisal report for Proposed Manufacturing Facility of Knack Packaging Limited Situated at City Survey No. NA/509/P2, Behind Shankar Parvati Cotton Mill in Village: Borisana, Taluka: Kadi, District: Mehsana – 384441, Gujarat, India (hereinafter referred to as ‘Report’) for the purpose of proposed IPO.

We RBSA Advisors LLP, have been appointed by Knack Packaging Limited (hereinafter referred to as ‘Company’ or ‘Client’ or ‘KPL’) as an advisor for issuance of Technical Appraisal report for Proposed Manufacturing Facility of the company.

Knack Packaging Ltd. is engaged in providing Bulk Branded Flexible Packaging Industry (5 kg to 74 Kg) catering to various segments including retail consumer & industrial packaging, flexible packaging, modern brand packaging and flexible bulk packaging across India and international markets.

KPL is Asia’s first manufacturer to start manufacturing Printed Laminated Woven Polypropylene Bags, Pinch bottom Bag with Laser Cut and Easy Open feature. Under Printed and Laminated Woven Polypropylene product category, company offering Printed and laminated Woven PolyPropylene Bags (“PLWPP”), Printed BOPP laminated Woven Poly Propylene Bags Pinch Bottom Bags with Laser Cut and Easy Open features and PE/PP Bags.

RBSA Advisors, founded in 1971, is a leading independent Transaction Advisory firm with service offerings including Valuation, Chartered Engineer certification, Investment Banking, Restructuring, Due Diligence, Transaction Tax, Risk Advisory and Litigation Support. With a team of more than 250+ professionals, we are spread across 9 offices in India, Dubai and Singapore. RBSA has been consistently ranked amongst the top 5 M&A advisory firms by both Merger Market and Venture Intelligence.

# EXECUTIVE SUMMARY



## Review of Production Capacity:

The review of the production capacity of proposed production facility of KPL' situated at City Survey No. NA/509/P2, Behind Shankar Parvati Cotton Mill in Village: Borisana, Taluka: Kadi, District: Mehsana-384441, Gujarat, India as on **4<sup>th</sup> August, 2025** is mentioned as under..

Sr. No.	Name of Product	Existing Effective Installed Capacity (In TPA) <sup>1</sup>	To be Discarded Capacity (In TPA) <sup>2</sup>	Proposed Capacity Addition per Annum (in Metric Ton)	Effective Proposed Capacity Addition per Annum <sup>3</sup> (in Metric Ton)
1	Printed and Laminated Woven Polypropylene	41,300	15,610	49,100	32,710 ~ 32,700

<sup>1</sup> Existing effective Installed Capacity - Please refer Exhibit

<sup>2</sup> To be discarded capacity : Capacity which is proposed to be discarded /removed from the existing Unit-1 and unit-3 facility. ( Please refer Chapter 6 for details )

<sup>3</sup> Effective proposed capacity addition per annum is estimated based on proposed capacity addition deducted by the capacity to be discarded from the existing manufacturing facility.

- The reported analysis, opinion and conclusion are limited only by the information provided by the company and reported assumptions and limiting conditions in the report.

For, RBSA Advisors LLP

**Jigar Kothari**  
Director

**Sagar Doshi**  
Vice President

**Vishal Gajjar**  
Associate Vice President

03/09/2025

27/01/2026

**RBSA Advisors LLP**

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INDIA

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# COMPANY AND PROJECT BACKGROUND

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# 1. COMPANY AND PROJECT BACKGROUND



27/01/2026

Report Ref No:RVA2526RRNXXXXXX

- Knack Packaging Ltd. (KPL) is a Company incorporated in year 2013 having its registered and corporate office situated at 330/A, Third Floor, Kalasagar Mall, Opposite Saibaba Temple, Near Sattadhar Crossroad, Ghatlodiya, Ahmedabad- 380061, Gujarat, India.
- Knack Packaging Ltd. offers a comprehensive range of **customized flexible packaging solutions**, designed to meet the diverse requirements of industrial and retail sectors. The company’s core product offerings are based on woven polypropylene (PP) technology, further enhanced with value-added lamination, printing, and finishing processes.
- The company is engaged in the design and manufacture of;
  - Printed and Laminated woven PP Bags
  - Block Bottom Bags
  - Gusseted Bags
  - Valve Bags
  - Liner Bags / Liner Inside Bags
  - Transparent Bags
  - Perforated Bags
- The company has existing manufacturing facility as under;

Unit 1	Unit 2	Unit-3
Block No. 482, 489, 493, 495, 497, 175, 176, 177 B/h. Shankar Parvati Cotton Mill. Kadi-Thol Road, Village: Borisana, Taluka: Kadi & District: Mehsana - 384441, Gujarat , India	Plot No.8, Kamla Amrut Industrial Estate, Phase-II Kamla Amrut Industrial Park), Opposite Asian Tube, Kadi-Chhatral Highway Village: Indrad, Taluka: Kadi, District: Mehsana -382715, Gujarat, India	Plot no. 747/1/1 and 748/1, Saket Industrial Estate, Kadi-Thol Road Village: Borisana, Ta-Kadi, District-Mehsana – 384440, Gujarat, India

- The company is planning to set up a new manufacturing facility adjacent to the existing facility of Unit -1. The proposed facility will be located at City Survey No. NA/509/P2, Behind Shankar Parvati Cotton Mill in Village: Borisana, Taluka: Kadi, District: Mehsana – 384441, Gujarat, India.

# 1. COMPANY AND PROJECT BACKGROUND



Proposed Project Background	
<b>Name of the Company</b>	Knack Packaging Ltd. (KPL)
<b>Proposed Project</b>	The company is planning to set up a new manufacturing Printed and Laminated Woven Polypropylene. The proposed facility located at City Survey No. NA/509/p2 Behind Shankar Parvati Cotton Mill in village: Borisana of Kadi Taluka within District Mehsana.
<b>Project Location</b>	City Survey No. NA/509/p2 Behind Shankar Parvati Cotton Mill in village: Borisana situated at Kadi Taluka within District Mehsana – 384441, Gujarat, India
<b>Land Area</b>	21.02 Acres ~ 85,075 SMT
<b>List of Products</b>	Under Printed and Laminated Woven Polypropylene Product Category, company offering Printed and laminated Woven Polypropylene Bags (“PLWPP”) with Pinch Bottom Bags with Laser Cut and Easy Open features and PE/PP Bags
<b>Existing Production Capacity</b>	41,300 Metric Ton per Annum
<b>Effective Proposed Capacity Addition</b>	32,700 Ton Per Annum
<b>Duration of Project Implementation</b>	Project will be implemented in phase manner and will be completed by July 2027

# **SCOPE OF WORK AND SOURCE OF INFORMATION**

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## 2. SCOPE OF WORK AND SOURCE OF INFORMATION



- Knack Packaging Ltd. (KPL) is a Company incorporated in year 2013 having its registered and corporate office situated at 330/A, Third Floor, Kalasagar Mall, Opposite Saibaba Temple, Near Sattadhar Crossroad, Ghatlodiya, Ahmedabad- 380061, Gujarat, India.
- Knack Packaging Ltd. offers a comprehensive range of **customized flexible packaging solutions**, designed to meet the diverse requirements of industrial and retail sectors. The company's core product offerings are based on woven polypropylene (PP) technology, further enhanced with value-added lamination, printing, and finishing processes.
- Knack Packaging Ltd. (KPL) is raising the funds through IPO for establishing the new project for production of PLWPP bags facility in the state of Gujarat. Further, Knack Packaging Private Ltd. (KPPL) has changed its name to Knack Packaging Limited (KPL) dated 20<sup>th</sup> June, 2025, as certified by the Registrar of Companies.
- KPL has approached RBSA Advisors LLP ("RBSA") to Technical Appraisal of Proposed Manufacturing Facility Situated at City Survey No. NA/509/p2 Behind Shankar Parvati Cotton Mill in village: Borisana of Kadi Taluka within District Mehsana – 384441, Gujarat, India (hereinafter referred to as 'Report') for the purpose of proposed IPO.

## 2. SCOPE OF WORK AND SOURCE OF INFORMATION



The detailed scope of work is as mentioned under;

### Technical Appraisal Report of Proposed Manufacturing Facility

#### Technical Feasibility

- Review and comment on technology proposed by the company to produce Printed and Laminated Woven Polypropylene after due discussion with the company technical people and reviewing the data available from open sources;
- Review and comment on manufacturing process and process flow chart;
- Review and comment on civil works for proposed facility;
- Review of the technical specification of machinery and comment on its capacity;
- Comment on the proposed installed capacity and actual need of the capacity expansion based on the utilization of existing production capacity.
- Review and comment on the requirement of utility and its sources;
- Review and comment on the requirement of buildings and built up area;
- Listing of various approvals required for the construction of facility during three stage of construction i.e. 1) Before commencing the construction, 2) During construction period and 3) Before commercial operation and comment on status of the approvals.
- Review and comment on the project implementation schedule

#### Strategic Analysis

- Site analysis with respect to location, connectivity, infrastructure, etc. for identified single location;
- Market survey and collection of data pertinent to availability of utilities like electricity, water etc.

## 2. SCOPE OF WORK AND SOURCE OF INFORMATION



This Report has been prepared on the basis of the following sources of information as provided by the Management:

### General Information:

1. A copy of certificate of incorporation consequent upon conversion to public company
  2. A copy of Registered Lease Deed
  3. Site Layout Plan (Unapproved)
  4. Copy of quotations for the details related to land developments, building and plant & machinery
  5. A Copy of application for Consent to Establish and Provisional Order for Consent to Establish
  6. Process flow chart and process description
- 
- **Discussions with the following personnel of the Company:**
    - Mr. Alpesh Tulshibhai Patel – Chairman and Managing Director
    - Mr. Ajay Dubey – CFO
    - Mr. Rahul Jagdishbhai Adesara - Manager – Costing & Analysis
  
  - Some of the clarifications were provided by the Management personnel verbally, without further confirmations in writing. We have assumed that such verbal information or clarifications provided to us is reliable, accurate and complete in all respects.
  
  - For our analysis, we have relied on published and secondary sources of data, whether or not made available by Management. We have not independently verified the accuracy or timeliness of the same.

# SITE ANALYSIS

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# 3. SITE ANALYSIS



- **Land :**
- The proposed project of production of BOPP/PP woven s facility will be implemented Nearer to Existing facility of Unit I at City Survey No. NA/509/P2, Behind Shankar Parvati Cotton Mill in Village: Borisana, Taluka: Kadi, District: Mehsana – 384441, Gujarat, India. The total land area admeasuring 85,075.00 sq.mt.
- As per copy of Lease deed executed between – Mr. Tulsibhai Keshavlal Patel. Mr. Pravinbhai Ambalal Patel, Mr. Kamleshbhai Ambalal Patel, Mr. Alpeshbhai Tulsibhai Patel, Mr. Rashminbhai Tulsibhai Patel (“Lessor” or “OWNERS”) and Knack Packaging Limited (“Lessee” or “KPL”) dated 18<sup>th</sup> July, 2025, the lessor has leased said plot of land to lessee on lease for the period of 20 years, from the Lease commencement date 1<sup>st</sup> July 2025 . However, the lease rent shall be payable from 1<sup>st</sup> April 2026, since the period of 1<sup>st</sup> April 2025 to 31<sup>st</sup> March 2026 will be considered as a land development phase for setting up a Manufacturing Unit. As per the Clause 10 mentioned in the lease deed, the lease tenure can be further extended by written mutual consent, as convenient for ongoing business of Lesse. However, if a mutual agreement is not met, then Lesse will hand over the premise to Lessor in the same condition as it was received at the time of possession.
- The proposed facility is adjacent to the existing manufacturing facility of the company. Further, there are several prominent industries are located in vicinity of the proposed facility. Hence, the utility like electricity and water will be easily availed for the said facility after necessary approvals and permissions from the respective authority.
- The demarcation of subject plot of land is as under;

North : Canal	South : other’s plot
East : other’s plot	West : Pond and other’s plot

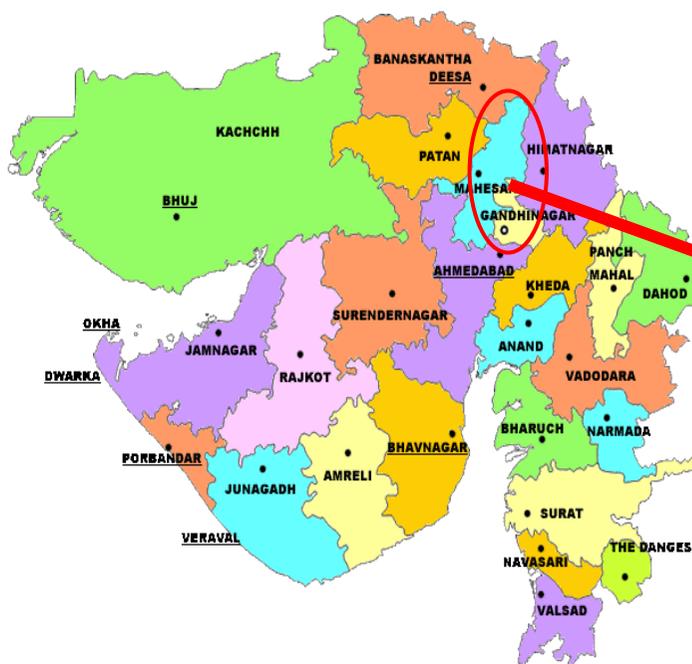
# 3. SITE ANALYSIS

Location :

## Gujarat State:

- Gujarat is a state in western India. It has an area of 75,686 Sq. Mi (196,030 Sq. Km.) with a coastline of 1,600 km, most of which lies on the Kathiawar peninsula, and a population in excess of 60 million, It is the sixth largest Indian state by area.

Source : <https://infohindustan.weebly.com/gujarath>



Gujarat State

## Mehsana District :

- Mehsana was established by Mesaji Chavda of Chawda Dynasty in Vikram Samvat 1414. Later Gaekwads established their administrative headquarters to mehsana in 1902. In 1947 with India's independence Mehsana was merged with union of india. It was part of Bombay state. Later in 1960 with the division of Bombay state into Maharashtra and Gujarat. Mehsana became one of the districts of Gujarat. Headquarter of Mehsana district is at Mehsana taluka.
- Mehsana district comprises ten talukas: Mehsana, Kadi, Visnagar, Vijapur, Vadnagar, Kheralu, Becharaji, Satlasana, Jotana and Unjha. The area of Mehsana District is 5600 sq. k.m. In the north borders there is Banaskantha District and in the west there is the border of Patan district. In the south there is Ahmedabad district and south-east there is Gandhinagar district. In the east there is Sabarkantha district

Source : <https://mahesana.nic.in/about-district>.



Mehsana District

# 3. SITE ANALYSIS



## Micro Location : Village: Borisana, Taluka: Kadi and District: Mehsana

### ▪ About Kadi Taluka:

- Kadi is an industrial town located in the southern part of Mehsana / Mehsana District in the state of Gujarat. It is situated at a distance 37.4 km from the district headquarters Mehsana and 50.4 km from the financial capital Ahmedabad. It is known for its many cotton mills and is often referred as the Cotton City of Gujarat. The town is also the administrative headquarters of Kadi Taluka..
- The area around Kadi is rich in oil and natural gas. The block is part of Cambay basin. The soil and climatic condition of this region is suitable for different kinds of crops such as sorghum, wheat, cumin seed and cotton.
- The economy of Kadi is dependent mainly on industries located in and around the town. Among them, many are agro based companies dealing in cotton ginning, cotton processing, cotton seed processing, cotton oil refineries etc. In addition, a significant number of companies also produce ceramic tiles and similar other products

Source: <https://kadi.gujaratonline.in/guide/about-kadi>

### ▪ About Borisana Village :

- Borisana is a Village in Kadi Taluka in Mehsana District of Gujarat State, India. It is located 47 KM towards South from District head quarters Mehsana and 36 KM from State capital Gandhinagar
- Rangpurda (2 KM) , Dudhai (3 KM) , Jaydevpura (3 KM) , Pirojpur (4 KM) , Manipur (4 KM) are the nearby Villages to Borisana. Borisana is surrounded by Kalol Taluka towards East , Detroj Rampura Taluka towards west , Gandhinagar Taluka towards East , Sanand Taluka towards South.

Source : <https://www.onefivenine.com/india/villages/Mahesana/Kadi/Borisana>

- The road distance between Kadi (nearest town to Borisana) and major cities is as under:

▪ Ahmedabad	:	45 kms
• Gandhinagar	:	41 kms
• Kadi	:	10 Kms
• Mehsana	:	34 kms
• Palanpur	:	120 kms

- The Narmada Canal is located approx. 5 kms from the proposed location.

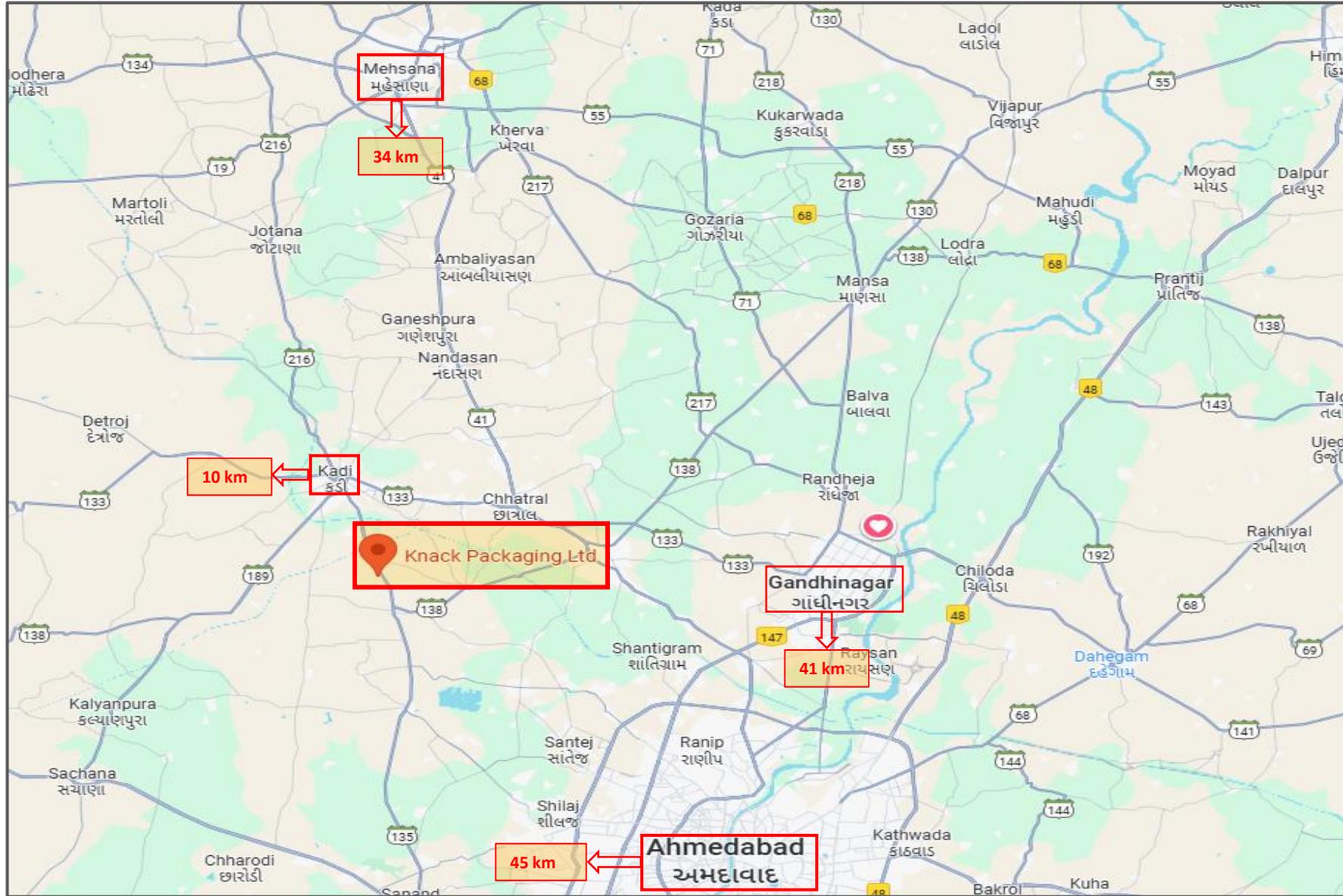
# 3. SITE ANALYSIS

- Google Map of the subject property is as shown below.



# 3. SITE ANALYSIS

- Map of the subject property showing distances from other cities



# 3. SITE ANALYSIS

## Connectivity:



Ahmedabad International Airport is situated in the city of Ahmedabad, Gujarat, India. It is approximately 45 kms away from subject property.



Ahmedabad Railway station which connects with the major cities of Gujarat is approximately 45 kms away from the subject property.



Kadi Bus Station is approximately 10 kms away from the subject property.



Kandla Port is approximately 300 kms away from the subject property.

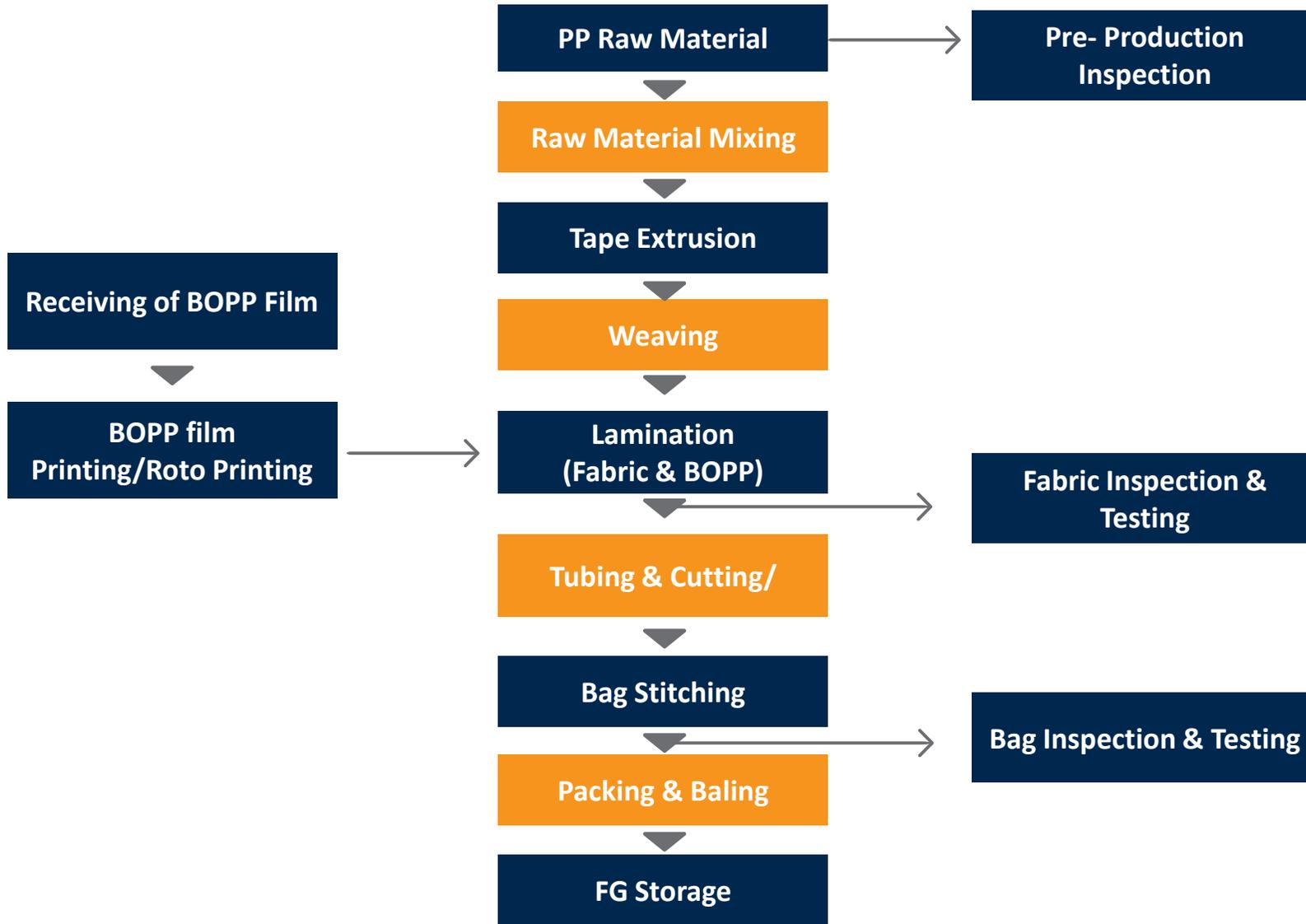
- Basic amenities such as banks, post, bus stand, hotels, restaurants, schools, hospitals, petrol pumps and public transport facilities etc. are available in Mehsana and Kadi, which is at a distance of approx. 25 to 30 kms away from the subject property location.
- **Development in the Micro-location**
  - The subject property is situated in Borisana village, within Kadi Taluka of Mehsana District, Gujarat, India. The region forms part of the industrially vibrant and agriculturally prosperous Mehsana district, located in proximity to major commercial hubs such as Ahmedabad and Gandhinagar.
  - The micro-location surrounding Borisana is characterized by robust industrial development, with notable presence in sectors including agro-processing, chemicals, textiles, packaging, and engineering.

# MANUFACTURING PROCESS AND PROCESS FLOW CHART

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# 4. MANUFACTURING AND PROCESS FLOW CHART

Process Flow Chart of Printed and Laminated Woven Polypropylene :



# 4. MANUFACTURING AND PROCESS FLOW CHART

## Brief Description of Process :

Process	Purpose	Description	Output Product
<b>Tape Line</b>	Convert PP granules into flat tapes (yarns).	<p>The process starts with polypropylene resin, which is in pellet or granule form. Polypropylene granules in differing combinations and other raw materials are compounded in the mixer.</p> <p>The mix is fed through the hopper into the extruder and the melt is filtered through a combination of screens and extruded into a film.</p> <p>The film is slit into strips, stretched in the machine, annealed through a set of hot and cold godets operating under controlled condition of temperature and speed and the resultant tapes are wound on cheese cones.</p>	Tapes
<b>Looms</b>	Create woven fabric from PP tapes.	<p>Circular or flat looms interlace tapes to form tubular or flat fabric. Fabric strength and density are controlled by loom settings.</p> <p>In this process, bobbins are loaded onto the creel stand and drawn through various combs before being pulled by draw rolls and winders. Simultaneously, the weft is inserted through a weft needle. The belt thus woven is pulled by draw rolls and delivered to winders where it is rolled</p>	Fabric
<b>Gravure Printing</b>	Apply branding, product info, or design.	High-speed rotogravure machines print on BOPP film. Ink is transferred via engraved cylinders for precision. Printed film is prepared for lamination.	Printed BOPP Films
<b>Lamination</b>	Bond printed BOPP film to woven fabric	Adhesive is applied between BOPP film and woven fabric. Heat and pressure ensure strong bonding. Enhances aesthetics and moisture resistance.	Laminated Fabric

# 4. MANUFACTURING AND PROCESS FLOW CHART

## Brief Description of Process :

Process	Purpose	Description	Output Product
Liner Extrusion	Films	<p>Polymer granules mix is heated and passed through a multi-layer die by extruders. The extruded film is blown to the desired ratio, size and thickness and cooled in air as it is being pulled by a haul off assembly.</p> <p>The extruded film is wound onto cone or plastic pipes on the winder.</p>	Film
Multi Filament Yarn	Yarn	<p>Polypropylene granules in differing combinations and other raw materials are compounded in the mixer. The mix is fed through the hopper into the extruder; the melt is filtered through a combination of screens and extruded through a set of dies into filaments.</p> <p>The filaments are cooled by chilled air, coated with spin finish oil and water, stretched in the machine direction, annealed through a set of hot and cold godets operating under controlled condition of temperature and speed. The resultant filaments are once again coated with a mix of spin finish oil and water and wound onto bobbins/Cones.</p>	Multifilament Yarn
Finishing	Printed and Laminated Woven Polypropylene	Fabric is cut to size. Bags are stitched (bottom and sides). Optional features: liners, handles, valve openings. Final inspection and packing for dispatch.	Printed and Laminated Woven Polypropylene

# **BUILDING AND SITE DEVELOPMENT**

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# 5. BUILDING AND SITE DEVELOPEMENT

## Building along with Site Development :

- The proposed project of production of Printed and Laminated Woven Polypropylene facility will be implemented Nearer to Existing facility of Unit I at City Survey No. NA/509/P2, Behind Shankar Parvati Cotton Mill in Village: Borisana, Taluka: Kadi, District: Mehsana. The total land area admeasuring 85,075 sq.mt.
- Land is adopted on lease by the Company for the period of 20 years, on lease rent INR 111,000/ per month As per the registered Lease agreement no.13364/36, the lease will commence from 1st July 2025. As per the lease agreement, the lease rent shall be payable from 1st April 2026, since the period of 1st April 2025 to 31st March 2026 will be considered as a land development phase for setting up Manufacturing Unit.
- The company has provided us with a sketch of layout plan for the proposed facility, as given below. This plan consists of different production and utility buildings from Shed 1 to Shed 9 along with the built-up area in SMT. These sheds consists of the major product manufacturing units like Tape line unit, weaving unit, Gravure printing unit, extrusion Laminations unit and finishing work, and hazardous collection area.



# 5. BUILDING AND SITE DEVELOPEMENT

## Buildings:

- As per the details provided by the company the proposed plant buildings comprises of following structures;

Sr. No.	Description of Structure	Height (In Mtr)	Total Built up Area (In SMT)
1	<b>Shed - 1</b> Type of Building: ETP + Garden area Type of Structure: PEB Structure Foundation: RCC Footings. Flooring: Trimix finish floors Roofing: Metallic Roofing embedded in PEB structure. Brick walls Up to 3m height	7	1,600
2	<b>Shed - 2</b> Type of Building: Dispatch + Ex-Lamination Area Type of Structure: PEB Structure Foundation: RCC Footings. Flooring: Trimix finish floors Roofing: Metallic Roofing embedded in PEB structure. Brick walls Up to 3m height	7	12,075
3	<b>Shed - 3</b> Type of Building: Fabric Storage Type of Structure: PEB Structure Foundation: RCC Footings. Flooring: Trimix finish floors Roofing: Metallic Roofing embedded in PEB structure. Brick walls Up to 3m height	7	3,631

# 5. BUILDING AND SITE DEVELOPEMENT

## Buildings:

Sr. No.	Description of Structure	Height (In Mtr)	Total Built up Area (In SMT)
4	<b>Shed - 4</b> Type of Building: Looms Area Type of Structure: PEB Structure Foundation: RCC Footings. Flooring: Trimix finish floors Roofing: Metallic Roofing embedded in PEB structure. Brick walls Up to 3m height	7	29,38
5	<b>Shed - 5</b> Type of Building: Looms Area Type of Structure: PEB Structure Foundation: RCC Footings. Flooring: Trimix finish floors Roofing: Metallic Roofing embedded in PEB structure. Brick walls Up to 3m height	7	1,584
6	<b>Shed - 6</b> Type of Building: Tapline+ Looms+Bobin Storage Type of Structure: PEB Structure Foundation: RCC Footings. Flooring: Trimix finish floors Roofing: Metallic Roofing embedded in PEB structure. Brick walls Up to 3m height	7	8,585

# 5. BUILDING AND SITE DEVELOPEMENT

## Buildings:

Sr. No.	Description of Structure	Height (In Mtr)	Total Built up Area (In SMT)
7	<b>Shed – 7</b> Type of Building: Tapline+ Silo Storage Area Type of Structure: PEB Structure Foundation: RCC Footings. Flooring: Trimix finish floors Roofing: Metallic Roofing embedded in PEB structure. Brick walls Up to 3m height	7	7,608
8	<b>Shed - 8</b> Type of Building: Looms+Utility+Office Area Type of Structure: PEB Structure Foundation: RCC Footings. Flooring: Trimix finish floors Roofing: Metallic Roofing embedded in PEB structure. Brick walls Up to 3m height	7	6,682
9	<b>Shed - 9</b> Type of Building: Hazardous Waste Collection Area Type of Structure: PEB Structure Foundation: RCC Footings. Flooring: Trimix finish floors Roofing: Metallic Roofing embedded in PEB structure. Brick walls Up to 3m height	7	1,510
<b>Total Built up Area</b>			<b>46,213</b>

# 5. BUILDING AND SITE DEVELOPEMENT

## Site Development works :

- As per the details provided by the site development comprises of following works/structures;

Sr. No.	Description of Structure	Technical Specification	Area
1	Compound Wall – 2205	RCC Framed Structure, with Plastered and Painted Surface. Fencing on the top.	2205 RMT
2	Under Ground Water Tank	RCC raft, RCC wall, Top slab, Waterproof plaster inside and outside	1,00,000 Ltr.
3	Road Work	RCC with GSB Filling and Groove filling with Asphalt.	16,690 SMT
4	Site Development of open Space	Soil Filling, Leveling, Dressing and Finishing	19,168 SMT

- The above proposed building and site development works are required to set up the proposed facility.
- The total land area proposed for the project is 85,075 SMT and proposed built up area is around 46,212 SMT which is 54% of the ground coverage.
- Company is yet to apply for the approved layout plan and building plan and take the necessary permission related to commencement of the construction.
- As per our site visit, approach road to reach the site of proposed facility is yet to be developed. As informed by company, it will be completed along with the land development.

# **TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY**

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## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

### Plant & Machinery - Printed and Laminated Woven Polypropylene :

- Based on the review of the details of machinery proposed to be acquired for the proposed project, we have prepared a details list which generally consist of Name of machinery/equipments, technical specification, quantity, name of vendor.

Sr. No.	Machinery Name	Technical Specification	Supplier Name	Qty.
				In Nos.
	<b>Tapeline</b>			
1	Tape Extrusion Line	Model: StarEX1600ES Capacity: 720 Kg/Hour	Starlinger & Co, Austria	2
2	Tape Extrusion Line	Model: E120MS.2000A Line Speed: 600 mpm Capacity: 850 Kg/Hour	Lohia Corp Ltd.	4
3	Tape Winder	Model: LFW 200CE Winding Speed: 160 -500 mpm	Lohia Corp Ltd.	1280
4	Five Components, Offline Gravimetric Dosing Mixing Conveying System	Model: GV 200 Output 850- 900 KG/HR	Prasad Koch Technik	4
5	Water Cooled Water Chiller With Screw Compressor	Model: SKW 301, Capacity: 107 TR	Prasad GWK Cooltech Pvt. Ltd.	5
6	Screw Air Compressor	ELGO make screw compressor Model EG30-13 Capacity: 200 cfm	Milestone Pneumatics	2

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

Plant & Machinery - Printed and Laminated Woven Polypropylene :

Sr. No.	Machinery Name	Technical Specification	Supplier Name	Qty.
				In Nos.
	<b>Looms</b>			
7	Lohia Circular Loom Nova 62 LF	Model: Nova 62 (LF) Speed: 215 mph	Lohia Corp Ltd.	12
8	Lohia Circular Loom	Model: Nova 62 (LF) Speed: 215 mph	Lohia Corp Ltd.	8
9	Circular loom	Model: RX 6.1 pro (open) Speed: 215 mph	Starlinger & Co, China	80
10	Lohia Circular Loom (Open)	Model: Nova 62 (LF) Speed: 215 mph	Lohia Corp Ltd.	192
11	Circular Loom,	Model: Nova-6 576 (LF) Speed: 215 mph	Lohia Corp Ltd.	123
12	Screw Air Compressor	Gardner Denver – CompAir ( Germany ) Make Screw Air Compressor – 45 KW ( 60 HP ) - Fix Model: LI 45-7.5 Capacity: 285 CFM	Aspiron Engineering	2
	<b>Ex-Lamination</b>			
13	Tandem Extrusion Coating Plant	Model: JP 80 CR 850/TD {BOPP} Capacity: 150 mpm	JP Extrusion tech Pvt Ltd	1
14	Coating Line	Model: Lamitec LX Capacity: 280 mpm	Starlinger & Co, Austria	1
15	Coating and Laminating Line	Model: LamiTec CX Capacity: 280 mpm	Starlinger & Co, Austria	1
16	Four Components, Offline Gravimetric Dosing Mixing Conveying System	Model: GV 60 Output 450 KG/HR	Prasad Koch Technik	1

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

Plant & Machinery - Printed and Laminated Woven Polypropylene :

Sr. No.	Machinery Name	Technical Specification	Supplier Name	Qty.
				In Nos.
17	Screw Air Compressor	ELGO make screw compressor Model EG30-13 Capacity: 200 cfm	Milestone Pneumatics	1
18	Water Cooled Water Chiller	Model: WE130-SK ( R134A ) Capacity: 107 TR	Nu-Vu ConAir	3
	<b>Gravure Printing</b>			
19	1300mm - 10 Color Shafted Rotogravure Printing Press	Model: Solomark 4350 ELS (DE) 10 CL 1300 Capacity: 200mpm	Pelican Rotoflex Pvt. Ltd.	3
20	1350mm - 10 Color Rotogravure Printing - Machine	Model: FR 350ELS Capacity: 250 mpm	Shaanxi Beiren Printing Machinery Co. Ltd.	3
21	1300mm - 10 Color Rotogravure Printing - Zhejiang Ounuo	Model: Honor 3.5-10-1350 Capacity: 250 mpm	Zhejiang Allwell Intelligent Technology Co. Ltd	1
22	Bi Directional Print Inspection Rewinder	Model: EAGLE SL 5500 Slitting-1300 MM Speed: 500 mpm	KalpvruX	6
23	Duplex Slitting Rewinding Machine	Model: ZIP SLIT SLR 10 Slitting-1300 MM Speed: 600 mpm	KalpvruX	1
24	Solvent Less Laminating Machine	Model: RNSL(I)-375-1350 Width: 1300 mm Speed: 375 mpm	Raulimax Industries Pvt Ltd	2

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

Plant & Machinery - Printed and Laminated Woven Polypropylene :

Sr. No.	Machinery Name	Technical Specification	Supplier Name	Qty.
				In Nos.
25	Screw Air Compressor	Gardner Denver – CompAir ( Germany ) Make Screw Air Compressor – 45 KW ( 60 HP ) - Fix Model: LI 45-7.5 Capacity: 285 CFM	Aspiron Engineering	2
26	Screw Air Compressor	Gardner Denver – CompAir ( Germany ) Make Screw Air Compressor – 45 KW ( 60 HP ) VFD Model: LI 45 RS-7.5 Capacity: 285 CFM	Aspiron Engineering	1
	<b>Finishing</b>			
27	SFB-WPP Woven PP Tuber + WPP pinch bottomer inline	SFB-WPP Woven PP Tuber + WPP pinch bottomer inline	B&B Verpackungstechnik GmbH	3
28	Pinch Bottom Machine	Conversion Line pp*starKON X	Starlinger & Co, Austria	1
29	Pinch Bottom Machine	Conversion Line pp*starKON 3.0	Starlinger & Co, Austria	1
30	Tubing Machine	Model: TubeTEC TX double Layer	Starlinger & Co, Austria	1
31	High Speed back seam tube and bag making machine	Model: ZTD1-1300	Qingzhou Riyuejin Machines Co Ltd	3
32	Online Flexo Printing Machine	Model: YRWX 1064-800ZN	Wenzhou Hitotop Machinery Technology Ltd	1

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

### Plant & Machinery - Printed and Laminated Woven Polypropylene :

Sr. No.1	Machinery Name	Technical Specification	Supplier Name	Qty.
				In Nos.
33	Online Flexo Printing Machine	Model: Soloprint (GL) 3225 (DE) 8 CL 850	Pelican Rotoflex Pvt. Ltd.	1
34	Roll Cutting Pinch Bottom Machine (PRB)	LCRD-1100A Roll Cutting Pinch Bottom Machine	Shandong Weiao Machine Equipment Co Ltd	4
35	Auto Woven bag cutting & sewing Line	Model: Golden-7/HIT/DKN-1/EZ	Golden Jason Machinery Industry Co Ltd	7
36	Fully-Automatic PP Woven BCS	Model: RF-QF600	Wenzhou Runfeng Machinery Co., Ltd	6
37	Fully-Automatic PP Woven Bag Making Machine With PE Liner Inserting & Bottom Sealing	Model: RF-TDF750	Wenzhou Runfeng Machinery Co., Ltd	1
38	Fully-Automatic PP Woven Bag Making Machine With PE Liner Inserting and Hemming	Model: RF-ADQ650	Wenzhou Runfeng Machinery Co., Ltd	1
39	Screw Air Compressor	Gardner Denver – CompAir ( Germany ) Make Screw Air Compressor – 45 KW ( 60 HP ) - Fix Model: LI 45-7.5 Capacity: 285 CFM	Aspiron Engineering	1
40	Screw Air Compressor	Gardner Denver – CompAir ( Germany ) Make Screw Air Compressor – 45 KW ( 60 HP ) VFD Model: LI 45 RS-7.5 Capacity: 285 CFM	Aspiron Engineering	2

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

Plant & Machinery - Printed and Laminated Woven Polypropylene :

Sr. No.	Machinery Name	Technical Specification	Supplier Name	Qty.
				In Nos.
41	Water Cooled Water Chiller With Screw Compressor	Model: SKL 126 Capacity: 39 TR	Prasad GWK Cooltech Pvt. Ltd.	1
42	Conversion Line Block Bottom Machine	Conversion Line Starkon HX	Starlinger & Co, Austria	1
43	Gusseting Machine	Model: RF-CB-700-IV	Wenzhou Runfeng Machinery Co., Ltd	1
<b>Ancillary</b>				
44	Liner Plant (LL)	Model: ULTIMA-SEMF-900-45-LL+ MONOLAYER Output: 55-60Kg/Hour	Shubham Extrusion	1
45	HM Liner Plant	Model: ULTIMA-SEMF-900-45-HD+ MONOLAYER Output: 55-60Kg/Hour	Shubham Extrusion	1
46	Mothe Baby Vented Recycling Plant	Model: GE-RE-120+120 Output: 160-200 Kg/Hour	Gaurav engineering	2
47	Screw Air Compressor	115 CFM, 25 HP VFD Model: L 18 RS (VFD)	Aspiron Engineering	1
<b>Forklift &amp; QC Machines</b>				
48	Forklift Electric	Capacity: 3 Ton Model: GX 300 E UNO	Toyota Material Handling/Godrej	5
49	Electronic Weighing Machine 200 gms	Capacity: 200 gm	IKON Instruments	1
50	Electronic Weighing Machine 2 kgs	Capacity: 2 KG	IKON Instruments	1
51	Tensile Testing Machine Dual Load	Model: DTRX-5KN	Deepak Polyplast Pvt Ltd	3
52	Melt Flow Index	Met Flow Index Tester	Deepak Polyplast Pvt Ltd	1

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

Plant & Machinery - Printed and Laminated Woven Polypropylene :

Sr. No.	Machinery Name	Technical Specification	Supplier Name	Qty.
				In Nos.
53	Electrical Muffle Furnace	Chamber Size: 9X4X4	Deepak Polyplast Pvt Ltd	1
54	Additional equipment for Ash Content		Deepak Polyplast Pvt Ltd	1
55	Silicon shrink Oil Bath	Oil Bath	Deepak Polyplast Pvt Ltd	1
56	GSM Cutter	GSM Cutter	Deepak Polyplast Pvt Ltd	2
57	Hot Air Circular Oven Unit	Size: 14X14X14	Deepak Polyplast Pvt Ltd	1
58	Opacity Testor	Opacity Testor	Deepak Polyplast Pvt Ltd	1
	<b>Electricity</b>			
59	Distribution Transformer	Capacity: 4000 KVA, 11KV/0.415 KV	SKP Transformers	3
60	66 kv substation GEW	66 KV Bay, Substation, Cable etc.	GEW Electropower Project Pvt. Ltd	Lot
61	GEW electric panel	PCC Panel, Power Distribution Panel and All Installation & Commissioning Work	GEW Electropower Project Pvt. Ltd	Lot

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY



### Capacity Estimation:

- The company has calculated that the production capacity for producing the type of product is based on assuming the quantity of each kind of product to be produced. The company has assumed the quantity of product to be produced is based on their past experience of demand & supply of the products in their existing manufacturing facility. The product capacity calculation for the product mix is based on the major product produced during the past financial years and based on the discussion with the respective plant people.
- The production capacity can be calculated using the following standard formula:
  - $\text{Production Capacity} = \text{Available Production Time per Year} \times \text{Average Production per Day (Ton)}$
- **Available Production Time per Year:**
  - This refers to the total time available for production during a three shift, days in a month and days in a year.
  - It is calculated by subtracting any planned downtime (e.g., breaks, meetings, maintenance, product change over time) from the total available days in a year.
  - For example, if the number of days in a month is 30 and there are 4 days of planned downtime, maintenance, holidays the available production time per month would be 26 days (30 days – 4 Days).
- **Average Production per Day:**
  - Average production per day can be estimated based on the capacity of machine per hour and available hours per day
  - Available hours per day for machinery/process considering the breaks, maintenance and product change overtime.
  - It includes all the necessary steps and operations involved in producing the packaging products of the desired type and quantity.
  - For example, for Tape line, if the number of hours in a day is 24 hours and there are certain breaks and maintenance activities planned based on the type of process, let's assume 1 hour required for said activity. Hence, the effective number of hours available per day is 23 hours.
  - For Tape line the effective capacity of the machine is 100 kg per hour then average production per day is 2,300 Kgs.
- By multiplying the available production days per year by the average production per day, we can determine the production capacity of the respective product. The result will be the number of units that can be produced during a year.
- It's important to note that this formula provides an estimate of production capacity and assumes continuous operation without any disruptions or variations in process time. Additionally, factors such as efficiency, worker skills, equipment reliability, and variability in demand may affect the actual production capacity achieved in practice. Regular monitoring, analysis, and adjustments are necessary to optimize and maximize the production capacity.

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY



### Basis and Methodology :

#### 1. Manufacturing Infrastructure:

- Assessment of the manufacturing facility's infrastructure, including factory layout, production area, and equipment.

#### 2. Production Processes:

- Evaluation of the manufacturing processes;
  - **Printed and Laminated Woven Polypropylene : Raw material preparation, Extrusion/Tape production, weaving, lamination/coating, printing, cutting and stitching, packing & Baling, FG storage, quality control and finishing.**

#### 3. Availability of Key Resource :

- Assessment of the availability and utilization of key resources required for production, such as labor, machinery, equipment, and materials.

#### 4. Production Capacity Calculation:

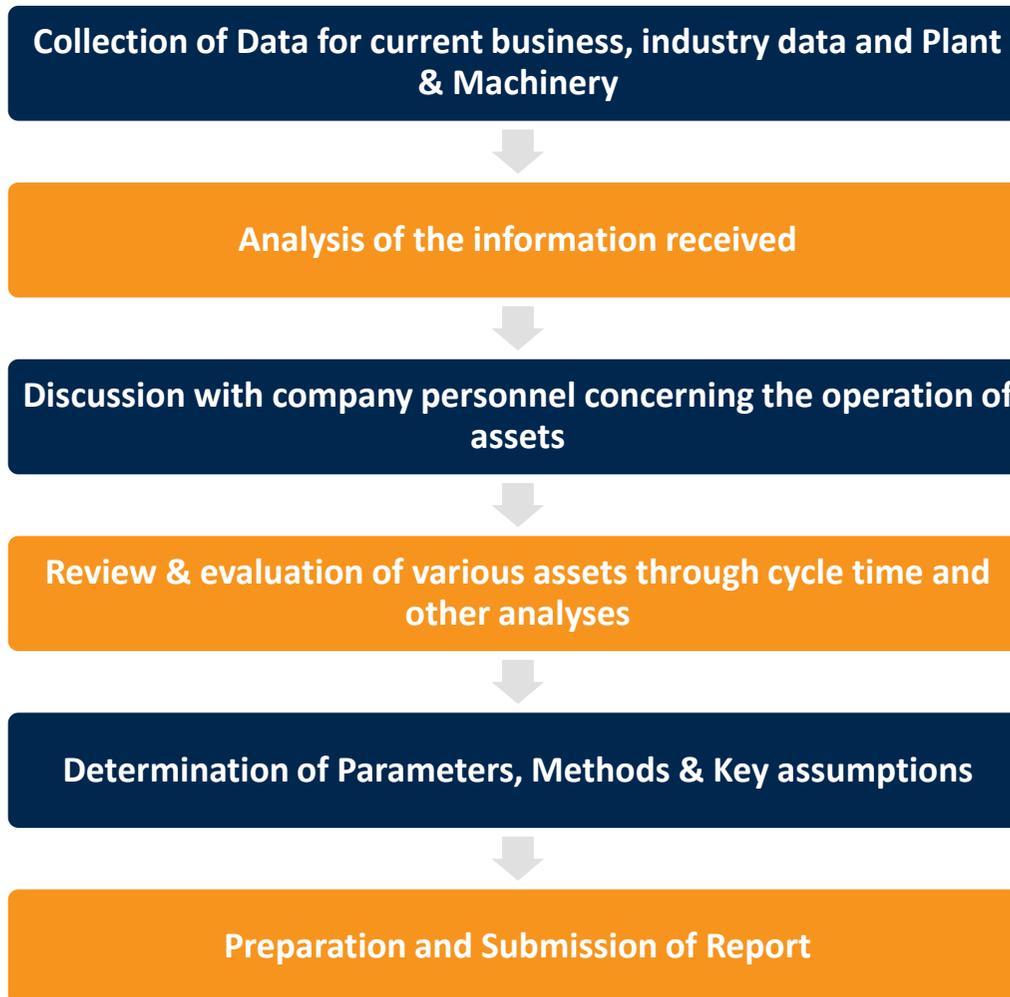
- Calculation of the proposed production capacity based on factors such as throughput, production rate, and effective production time.

#### 5. Documentation and Records:

- Review of documentation related to production capacity and machinery technical details for the existing facility and machinery and capacity for the proposed facility.

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

Procedure adopted for exercise :



## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

### Capacity Estimation - Printed and Laminated Woven Polypropylene :

- To manufacture the desired Printed and Laminated Woven Polypropylene, the product passes through several key processes. During each stage, additional materials are incorporated, progressively increasing the weight of the product. As a result, the finished bag reflects the combined outcomes of all these processes. It is therefore necessary to determine the production capacity at each individual stage to accurately assess overall output for the final product.

Tape Line >> Weaving >> BOPP Printing >> Extrusion Lamination >> Ad- Lamination >> Multifilament Yarn >> Liner

#### Estimation of Capacity of Tape Line Process : 34,000 TPA

Assumptions

Particulars	Tape Line Machine – 1 Star linger	Capacity Unit
Capacity of Each Machine	720	Kg/Hour
Effective No. of hours/Day	23	Hour/Day
Total Kg per day/Machine	16,560	Kg/Day
No of Effective Working Days/Year	312	No. of days/Year
Total Production in Kg/Annum	5,166,720	Kg/Month
Total Production in Ton/Annum	5,167	TPA
No. of Tape Line	2	Nos.
<b>Total Production in Ton/Annum</b>	<b>10,000</b>	<b>TPA</b>

Assumptions

Particulars	Tape Line Machine – Lohia	Capacity Unit
Capacity of Each Machine	850	Kg/Hour
Effective No. of hours/Day	23	Hour/Day
Total Kg per day/Machine	19,550	Kg/Day
No of Effective Working Days/Year	312	No. of days/Year
Total Production in Kg/Annum	6,099,600	Kg/Month
Total Production in Ton/Annum	6,100	TPA
No. of Tape Line	4	Nos.
<b>Total Production in Ton/Annum</b>	<b>24,000</b>	<b>TPA</b>

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

### Capacity Estimation - Printed and Laminated Woven Polypropylene :

#### Estimation of Capacity of Weaving Process

- The product output from the Tape Line machines are directly move to weaving machine for prepare the fabric for next process. Therefore, there is not any additional weight/material added during weaving process. However, the capacity for weaving process in line with the final proposed capacity.

#### Estimation of Capacity of BOPP Gravure Printing: 5,350 TPA

Assumptions

Particulars	BOPP Printing	Capacity Unit
Capacity of Machine	8,500	Meter/Hour
Effective No. of hours/Day	18	Hour/Day
Total Meter per day/Machine	153,000	Meter/Day
Effective No. of Days/Annum	312	No. of days/Annum
Total Meter per Annum	47,736,000	Meter/Annum
Gram per meter	0.016	Kg per meter
Total Kg per Annum	763,776	Kg/Annum
Total Production in Ton/Annum	764	TPA
No. of Gravure Machine	3	Nos.
<b>Total Production in Ton/Annum</b>	<b>2,290</b>	<b>TPA</b>

Assumptions

Particulars	BOPP Printing	Capacity Unit
Capacity of Machine	8,500	Meter/Hour
Effective No. of hours/Day	18	Hour/Day
Total Meter per day/Machine	191,700	Meter/Day
Effective No. of Days/Annum	312	No. of days/Annum
Total Meter per Annum	59,810,400	Meter/Annum
Gram per meter	0.016	Kg per meter
Total Kg per Annum	956,966.4	Kg/Annum
Total Production in Ton/Annum	957	TPA
No. of Gravure Machine	4	Nos.
<b>Total Production in Ton/Annum</b>	<b>3,060</b>	<b>TPA</b>

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

Capacity Estimation - Printed and Laminated Woven Polypropylene :

Estimation of Capacity of Extrusion Lamination: 4,650 TPA

Assumptions

Particulars	Lamination	Capacity Unit
Capacity of Machine	8,100	Meter/Hour
Effective No. of hours/Day	22	Hour/Day
Total Meter per day/Machine	178,200	Meter/Day
Effective No. of Days/Annum	312	No. of days/Annum
Total Meter per Annum	55,598,400	Meter/Month
Gram per meter	0.019	Kg per meter
Total Kg per Annum	1,056,370	Kg/Annum
Total Production in Ton/Annum	1,056	TPA
No. of Mixer Machine For Lamination	1	
<b>Total Production in Ton/Annum</b>	<b>1,060</b>	<b>TPA</b>

Assumptions

Particulars	Lamination	Capacity Unit
Capacity of Machine	13,750	Meter/Hour
Effective No. of hours/Day	22	Hour/Day
Total Meter per day/Machine	302,500	Meter/Day
Effective No. of Days/Annum	312	No. of days/Annum
Total Meter per Annum	94,380,000	Meter/Month
Gram per meter	0.019	Kg per meter
Total Kg per Annum	1,793,220	Kg/Annum
Total Production in Ton/Annum	1,793	TPA
No. of Mixer Machine For Lamination	2	
<b>Total Production in Ton/Annum</b>	<b>3,590</b>	<b>TPA</b>

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

Capacity Estimation - Printed and Laminated Woven Polypropylene :

Estimation of Capacity of Ad-Lamination : 2,040 TPA

Assumptions

Particulars	Ad- Lamination	Capacity Unit
Capacity of Machine	10,200	Meter/Hour
Effective No. of hours/Day	20	Hour/Day
Total Meter per day/Machine	204,000	Meter/Day
Effective No. of Days/Annum	312	No. of days/Annum
Total Meter per Annum	63,648,000	Meter/Annum
Gram per meter	0.016	Kg per meter
Total Kg per Annum	1,018,368	Kg/Annum
Total Production in Ton/Annum	1,018	TPA
No. of Ad-Lamination Machine	2	Nos.
<b>Total Production in Ton/Annum</b>	<b>2,040</b>	<b>TPA</b>

Multifilament Yarn :

- As discussed, no new machines will be purchased for the proposed facility. The existing multifilament yarn machines installed at existing facility will be used for the proposed expansion operation.

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

Capacity Estimation - Printed and Laminated Woven Polypropylene :

Estimation of Capacity of Liner : 720 TPA

Assumptions

Particulars	Liner	Capacity Unit
Capacity of Machine	52.5	Kg/Hour
Effective No. of hours/Day	22	No. of hours/Day
Total Kg per Day	1,155	Kg/Day
Effective No. of Days/Annum	312	No. of days/Annum
Total Kg/Annum	360,360	Kg/Annum
Total Production in Ton/Annum	360.36	TPA
No. of Machine	2	Nos.
<b>Total Production in Ton/Annum</b>	<b>720</b>	<b>TPA</b>

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

### Capacity Estimation - Printed and Laminated Woven Polypropylene :

- Effective proposed capacity addition per annum is estimated based on proposed capacity addition deducted by the capacity to be discarded from the existing manufacturing facility and same have been summarized as under;

Sr. No.	Name of Process	Location	Existing Installed Production Capacity*	To be Discarded from Existing Manufacturing Facility	Proposed Capacity Addition	Effective Proposed Capacity Addition
			(TPA)	(TPA)	(TPA)	(TPA)
1	Tape Line Machine	Unit-1	8,600	8,600	34,000	20,000
2	Tape Line Machine	Unit-2	10,400	-	-	-
3	Tape Line Machine	Unit-3	5,400	5,400	-	-
4	Gravure Printing	Unit-1	5,350	-	5,350	5,350
6	Ex-Lamination	Unit-1	5,820	1,060	4,650	3,590
8	Ad-Lamination	Unit-1	2,040	-	2,040	2,040
9	Multifilament Yarn	Unit-1	370	-	-	-
10	Liner	Unit-1	720	-	720	170
11	Liner	Unit-3	550	550	-	-
<b>Total Capacity</b>			<b>39,300</b>	<b>15,610</b>	<b>46,760</b>	<b>31,150</b>
Add: 5% considering material addition in finishing department and D-Metalized film			1,970	-	2,340	1,560
<b>Total Effective Capacity</b>			<b>41,300</b>	<b>15,610</b>	<b>49,100</b>	<b>32,710</b>
<b>Or Say</b>						<b>32,700</b>

\*Please refer the exhibit A for the capacity estimation of existing installed capacity.

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY



### Capacity Estimation Summary :

Based on the analysis of the capacities of various products on the preceding pages, the following represents the overall effective proposed capacity addition of the plant:

Sr. No.	Name of Product	Effective Proposed Capacity Addition (in Metric Ton)
1	Printed and Laminated Woven Polypropylene (PLWPP)	32,700

**Note:**

The information relating to the effective proposed installed capacity are based on various assumptions and estimates that have been taken into account for calculation of the proposed installed capacity. These assumptions and estimates include the standard capacity calculation practice of packaging industry after examining the calculations and explanations provided by the Company various equipment to be installed at the facilities. Further, the manufacturing process, production time and production day per annum at existing facility of the company is also taken into account while reviewing the proposed production capacity.

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY



### Review of Utilities

- **Water:**

- The manufacturing process doesn't require process water. The water usage mainly for domestic consumption like toilets, wash basin, drinking, fire fighting, gardening etc. and same will be made available through borewell.

- **Power:**

- The company's existing manufacturing facility has a contract demand around 5500 KVA (together of Unit-1, Unit-2 and Unit-3) with electricity distribution company i.e. Uttar Gujarat Vij Company Limited and the company also have rooftop solar installed at both the manufacturing facility. The existing contract demand is required to produce around 41300 TPA of Printed and Laminated Woven Polypropylene .
- The company is proposing a sanction of electrical contract demand around 8000 KVA from Uttar Gujarat Vij Company Limited for its effective proposed capacity addition of around 32,700 TPA. Considering the contract demand of existing manufacturing facility, historical power consumption, historical production and proposed product mix, it is our opinion that the proposed sanctioned power is adequate for the proposed capacity addition.

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY



### Review of Requirement of capacity addition:

The BOPP bags industry plays a critical role in packaging across sectors such as agriculture, food, chemicals, and retail. As global demand for durable, customizable, and eco-friendly packaging grows, enhancing production capacity becomes a strategic necessity.

With increasing consumption of packaged goods, fertilizers, grains, and pet food, the demand for BOPP bags is rising. Expanding production capacity ensures manufacturers can meet bulk orders and seasonal spikes without compromising delivery timelines.

Clients increasingly seek customized printing, lamination, and sizing. Enhanced capacity allows for diversified production lines that cater to varied specifications, improving customer satisfaction and enabling premium pricing.

India is emerging as a key exporter of BOPP bags. To capitalize on international demand and maintain competitiveness, manufacturers must scale up operations to meet global quality standards and volume requirements.

Higher production volumes enable better utilization of raw materials, machinery, and labor. This leads to reduced per-unit costs, improved margins, and better ROI on capital investments.

Capacity enhancement often goes hand-in-hand with automation and advanced machinery. This improves consistency, reduces waste, and enhances throughput—critical for maintaining quality in high-volume production.

Modern production setups support eco-friendly practices such as recyclable materials and energy-efficient processes. Scaling up with sustainability in mind helps meet regulatory requirements and appeal to environmentally conscious clients.

In a fragmented market, the ability to fulfill large orders quickly and reliably sets a manufacturer apart. Enhanced capacity ensures agility, faster turnaround, and stronger relationships with distributors and end-users.

Further, we have also analyzed the production, capacity, and capacity utilization of existing production facility of the company and same have been summarized as under;

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY

### Review of Requirement of capacity addition:

Product/Manufacturing Unit	UOM*	Apr-25 to July-25*	FY2025	FY2024	FY2023
<b>Printed and Laminated Woven Polypropylene</b>					
Installed Capacity <sup>1</sup>	MT	17,700	47,500	43,300	37,500
Effective Installed Capacity <sup>2</sup>	MT	13,800	36,400	33,400	28,800
Actual Production <sup>3</sup>	MT	11,202	31,297	29,609	22,128
Capacity Utilization <sup>4</sup>	%	81.17%	85.98%	88.65%	76.83%

- (1) *Installed Capacity: Maximum output that a manufacturing unit, plant, or facility can produce under ideal conditions using its existing equipment, workforce, product mix, process and infrastructure over a year. Installed capacity calculations are based on continuous operation, assuming that the manufacturing facility operates for full duration without any significant interruptions or downtime.*
- (2) *Effective Installed Capacity: Fraction of the installed capacity that is actually available for use, considering operational constraints like schedule preventive maintenance, downtime, holidays, production processes and product mix. The assumptions and estimates taken into account include the following: (i) Number of net working days in a fiscal year considering the schedule preventive maintenance, downtime, holidays etc. is considered as 312 Days, (ii) Number of daily hours ranging from 10 hours to 23 hours depends on the process. The calculations assume that the production capacity is based on optimal operating conditions, where all equipment and machinery are functioning at their highest efficiency levels and the workforce is working at their maximum productivity. The calculations assume standardized production processes and product mix.*
- (3) *Actual Production: The information relating to the actual production as of the dates included above is based on the examination of the SAP/internal production records provided by the Company, explanations provided by the Company, the period during which the manufacturing facilities operate in a fiscal year, expected operations, downtime resulting from scheduled maintenance activities, unscheduled breakdowns. In determining the annual production, we have taken into account the records of the production done by the Company at each plant. We have verified the production data for each plant and determined the production for each fiscal year.*
- (4) *Capacity Utilization: Capacity utilization factor has been calculated based on actual production during the relevant fiscal year/ period divided by the aggregate installed capacity of relevant manufacturing facilities as of the end of the relevant fiscal year/ period.*

*Installed capacity and effective installed capacity for Apr-25 to Jul-25 is adjusted as per the four months.*

*It may be noted that the above installed capacity in FY 24-25 and Apr-25 to Jul-25 includes the capacity of Unit-3. Unit-3's premises including machinery and building are owned by Praspack Polymers and leased out to Knack Packaging Limited on short term lease basis. Further, as informed the unit is operated by Knack Packaging Limited.*

Based on the analysis of recent operational data and market performance, it is evident that the company's core product—Printed and Laminated Woven Polypropylene —is primarily manufactured for export. The consistent acceptance and satisfaction expressed by overseas clients underscore the strong market positioning and product quality.

A review of the company's production data over the past three years reveals that the existing manufacturing facility is operating at approximately more than 85% of its current capacity, indicating limited room for scaling output without infrastructure enhancement.

## 6. TECHNICAL DETAILS OF MACHINERY AND ESTIMATION OF CAPACITY



### Review of Requirement of capacity addition:

With Borisana and Indrad two units till 23-24 the combined installed capacity per month is 2850 TPM. To meet the order requirement company has taken the machinery and premises on lease in unit-3 in 24-25 which is reflected in the month of Jul-25 for such requirement.

Sr. No.	Product Category	Apr-25 In TPM	May-25 In TPM	Jun-25 In TPM	Jul-25 In TPM
1	Printed and Laminated Woven Polypropylene (PLWPP)	2,798	2,590	2,840	2,972

Given these factors, we believe that expanding production capacity is both timely and strategically sound. It will enable the company to:

- Fulfill increasing export demand
- Explore and penetrate new international markets
- Respond effectively to future growth opportunities

Therefore, capacity enhancement is not only advisable but essential for sustaining momentum and capitalizing on emerging global trends in the BOPP bags industry.

# **REVIEW OF APPROVALS/ PERMISSIONS/CLEARANCES**

7

## 7. REVIEW OF APPROVALS/PERMISSIONS/CLEARANCES

We have been furnished with copy of Certificates, Approvals and Applications required before establishment of the proposed project of the company and same has been reviewed for the purpose of this exercise. Based on the documents and information furnished to us, the current status of Certificates, Registrations and Approvals is summarized as under:

Sr. No.	Particulars	Authority	Status	Remarks
<b>Approvals Before Construction</b>				
1	Land	Settlement Commissioner And Director Of Land Record Department Gujarat	On lease tenure of 20 Years	Lease deed no 13364/36 registered on 11 <sup>th</sup> August 2025
2	Non- Agricultural Permission Letter	Mehsana Collector Office	Provided	Non- Agricultural order vide registration no 411/04/09/064/2022 dated 11/02/2022 issued by Mehsana Collector Office
3	Consent to Establish (CTE)	Gujarat Pollution Control Board (GPCB)	Provisional CTE received.	Company has received Provisional Consent order no. CTE-85508, granted on 06/08/2025 with validity up to 23/07/2032 from GPCB.
4	Development permission letter	Mehsana Urban Development Authority (MUDA)	Yet to apply	
5	Approved Building Plan	Mehsana Urban Development Authority (MUDA)	Yet to apply	
6	Temporary electrical connection	Uttar Gujarat Vij Company Limited	Yet to apply	

## 7. REVIEW OF APPROVALS/PERMISSIONS/CLEARANCES

Sr. No.	Particulars	Authority	Status	Remarks
<b>Approvals During Construction</b>				
1	Power Connection and Sanction	Uttar Gujarat Vij Company Limited	Yet to apply	
2	Water Connection and NOC	Gujarat Pollution Control Board	Yet to apply	

Sr. No.	Particulars	Authority	Status	Remarks
<b>Approvals post construction before operation</b>				
1	Consent to Operate	Gujarat Pollution Control Board (GPCB)	Yet to apply	
2	Factory License	Directorate of Industrial Safety & Health, Gujarat State	Yet to apply	
3	Fire NOC	Directorate of Industrial Safety & Health, Gujarat State	Yet to apply	
4	Registration of Contractor( RC)	Labour Department of Gujarat.	Yet to apply	
5	Hazardous Waste Authorization	Saurashtra Enviro Projects Pvt. Ltd	Yet to apply	
6	ESIC Registration	Employees' State Insurance Corporation	Yet to apply	
7	Approval of Electrical Installation certificate	Electrical Inspectorate, Government of Gujarat	Yet to apply	

# PROJECT IMPLEMENTATION SCHEDULE

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## 8. PROJECT IMPLEMENTATION SCHEDULE



The company is proposing the following implementation schedule for proposed project and same has been represented here:

Sr. No.	Particulars	Estimated Commencement Date	Expected completion date
1	Land acquisition	Done	Completed
2	Land Development	01-10-2025	31-08-2026
3	Buildings	01-11-2025	01-02-2027
4	Plant and machinery*	01-01-2026	03-03-2027
5	Electrical Installation	01-03-2026	03-03-2027
6	Government approvals, permissions and clearances	01-08-2025	01-04-2027
7	Plant Commissioning & Trial run	01-04-2027	30-06-2027
8	Commercial Production	July-2027	

*\* It may be noted that, purchase order for few of the plant & machinery considered for proposed facility has been already placed and part of the amount has been paid by the company.*

# **FACTS, ASSUMPTIONS & LIMITING CONDITIONS**

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## 9. FACTS, ASSUMPTIONS AND LIMITING CONDITIONS



- Any matters related to legal title and ownership are outside the purview and scope of this exercise. Further, no legal advice regarding the title and ownership of the proposed land, buildings and machinery/equipment has been obtained while conducting this exercise. The reader is advised to take appropriate legal opinion on the matter while taking any decision on the basis of this report. Further, we have assumed that the proposed land, buildings and machinery/equipment have requisite planning approvals and clearances from appropriate local authorities, and they comply with local development control regulations.
- This exercise may be significantly influenced by adverse legal, title or ownership and/or encumbrance issues. We reserve our right to change the conclusion should any such issue is brought to our notice at a later date.
- We have acted as an independent third party and, as such, shall not be considered an advocate for any concerned party for any dispute. This exercise has been carried out independently to provide the advisory services. We have no present or planned future interest in company or any of its group companies and the fee for this report is not contingent upon outcome of the transaction. Our exercise/advisory service should not be construed as investment advice; specifically, we do not express any opinion on the suitability or otherwise of entering into any transaction with company.
- We have made certain assumptions in relation to facts, conditions or situations affecting the subject of, or approach to, this exercise that has not been verified as part of the engagement rather, treated as “a supposition taken to be true”. If any of these assumptions prove to be incorrect then our reported estimate will need to be reviewed.
- In the course of this exercise, we were provided with both written and verbal information. We have however, evaluated the information provided to us by the Company through broad inquiry, analysis and review but have not carried out a due diligence or audit of the information provided for the purpose of this engagement. Our conclusions are based on the assumptions, forecasts and other information given by/on behalf of the Company.
- The subject exercise is based on prevailing market dynamics as on the date of the exercise and does not take into account any unforeseeable developments which could impact the same in the future.
- This Report forms an integral whole and cannot be split in parts. The outcome of the exercise can only lead to proper conclusions if the Report as a whole is taken into account.
- This report is further governed by our standard terms and conditions of professional engagement; offer or contract.
- Other observations, assumptions and limiting conditions, as appropriate, are also mentioned in respective sections of this report and annexures.
- Possession of the report or any copy thereof shall not carry with it right of publication. No portion of the report shall be disseminated to third parties through prospectus, advertising, public relations, news or any other means of communication without the written consent and approval of RBSA. However, looking to the purpose of this exercise, the client can disclose the outcome of this exercise in DRHP/RHP filing with SEBI, prospective investors and IPO related activities like media releases, analyst presentation etc.

## 9. FACTS, ASSUMPTIONS AND LIMITING CONDITIONS



- No soil analysis or geological or other technical studies were made in conjunction with the report, nor was any water, oil, gas or other subsurface mineral and use rights or conditions investigated by RBSA.
- In the quotations provided by the company, the name of the company is Knack Packaging Private Limited. However, the copy of certificate of incorporation for the name change from Knack Packaging Private Limited to Knack Packaging Limited has been provided to us.
- The Report assumes that the Company complies/ complied fully with relevant laws and regulations applicable in all its areas of operations unless otherwise stated and will be managed in a competent and responsible manner. Further, except as specifically stated to the contrary, this Report has given no consideration to matters of a legal nature, including issues of legal title and compliance with local laws, and litigation and other contingent liabilities that are not recorded in the audited / unaudited balance sheet of the Company. We have made no investigation of, and assume no responsibility for the title to assets or liabilities against Company. No consideration has been given to liens or encumbrances against the assets, beyond the loans disclosed in the accounts.
- Our services are not designed to and are not likely to reveal fraud or misrepresentation by the Management or by external parties. Accordingly, we cannot accept responsibility for detecting fraud (whether by the Management or by external parties) or misrepresentation by the Management or any other person. While performing this assignment, we have assumed the genuineness of all signatures and the authenticity of all documents and/ or copies of documents shown to us. We have also relied upon the veracity of the representations made, and the information provided to us by/ on behalf of the Management. In no event shall we be liable for any loss, damages, cost or expenses arising in any way from fraudulent acts, misrepresentations or wilful default on part of the Client, Company, their directors, employees or agents. In no circumstances shall the liability of RBSA, its partners, its directors or employees, relating to the services provided in connection with the engagement set out in this Report will exceed the amount paid to such advisory in respect of the fees charged by it for these services.
- Our report can be used by the Client only for the purpose, as indicated in this report, for which we have been appointed and cannot be used or relied by the Client for any other purpose or by any other party for any purpose whatsoever. We are not responsible for the unauthorized use of this Report. We are not responsible to any other person for any decision of such person based on this report. Any person intending to provide finance / invest / divest in the shares / business of the Company or its other group companies, if any, shall do so after seeking their own professional advice and after carrying out their own due diligence procedures to ensure that they are making an informed decision. If any person (other than the Client) choose to place reliance upon any matters included in the report, they shall do so at their own risk and without recourse to RBSA. We shall not assume any responsibility to any third party to whom the Report is disclosed or otherwise made available. In no event, regardless of whether consent has been provided, shall we assume any responsibility to any third party to whom the Report is disclosed or otherwise made available.
- The fee for our services is not contingent upon the results conclusion of the engagement. This Report is subject to laws of India.

# 9. FACTS, ASSUMPTIONS AND LIMITING CONDITIONS

## Specific to Review of Proposed Production Capacity :

- As informed by company officials, the company will procure new machinery/equipment for the proposed project and no second-hand or used machinery/equipment are proposed to be purchased.
- We have considered machinery name/description and its technical specifications as per the details given in the list of machinery as well as details mentioned in the supporting documents such as quotation / purchase order.
- The list of building containing built-up area has been provided by the company and same have adopted for the purpose of this exercise. The technical specifications of the buildings and miscellaneous civil structures considered based on the verbal discussion with the representative of the company.
- The site layout of proposed facility and the technical specifications are finalized by the company in consultation with the consultant.
- In the course of this exercise, we have relied upon the hardcopy, softcopy, email, documentary, and verbal information provided by the client without further verification. We have assumed that the information provided to us is reliable, accurate, and complete in all respects. We reserve our right to alter our conclusions at a later date, if it is found that the data provided to us by the company was not - reliable, accurate or complete.
- We have been provided with the list of machinery proposed to be required for the production of Printed and Laminated Woven Polypropylene with asset description.
- It is assumed that the production rates remain relatively stable throughout the designated time frame considered for calculating the proposed production capacity. This assumes a consistent demand for the BOPP/PP Woven Bags and a steady workflow without significant fluctuations.
- The information relating to the annual installed capacity as of the dates included above is based on various assumptions and estimates that have been taken into account for the calculation of the installed capacity. These assumptions and estimates include the standard capacity calculation practice of the packaging industry after examining the calculations and explanations provided by the Company and its subsidiaries. The assumptions are also based on the past experience of the management of the Company to manufacture the products. It also depends on the product mix that the Company has used to manufacture the various products in a plant. In packaging industry it may possible that, change in product mix will result in full utilization of the installed capacity or over achievement of the capacity against the installed capacity. Further, the calculation of the annual installed capacity is based on the current product manufactured by the company. The assumptions and estimates taken into account include the following: (i) Number of net working days in a fiscal year considering the schedule preventive maintenance, downtime, holidays etc. – 312 Days, (ii) Number of daily hours ranging from 10 hours to 23 hours depends on the process.

# 9. FACTS, ASSUMPTIONS AND LIMITING CONDITIONS



## Specific to Review of Proposed Production Capacity:

- It is assumed that the production capacity calculations are based on continuous operation, assuming that the manufacturing facility operates for the full duration without any significant interruptions or downtime.
- The calculations assume that the production capacity is based on optimal operating conditions, where all equipment and machinery are functioning at their highest efficiency levels and the workforce is working at their maximum productivity.
- The calculations assume standardized production processes and product mix.
- The calculations may assume that the production capacity takes into account planned maintenance schedules and regular downtime for maintenance, repairs, and adjustments. This helps account for the time required for upkeep without impacting the overall capacity.
- It is assumed that the necessary resources, such as raw materials, components, and energy supply, are readily available to support the production process. Adequate supply chain management and coordination are presumed to ensure uninterrupted production.
- The calculations assume that the production processes are optimized and efficient, with minimal waste and high production yields. This assumes that the company will implement measures to enhance production efficiency and minimize defects or rework.
- The calculations may assume specific work shifts, such as standard eight-hour shifts or multiple shifts per day, to determine the production capacity. The assumptions consider the working hours available within the designated time frame for manufacturing operations.
- Production Capacity is an important factor that needs to be calculated to determine equipment size, satisfy contractual requirements, aid supply chain management, and obtain operating permits/licenses/approvals from various regulators/government/agencies. There is no single way to measure the capacity and there are numerous factors to be considered, many of which are unique to a specific process or facility.
- Production is also based on the demand for the product which is manufactured by the Company.

# CONCLUSION

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# 10. CONCLUSION



Knack Packaging Limited is raising the funds through IPO partly for establishing the new project for production of Printed and Laminated Woven Polypropylene in the state of Gujarat.

This Report is to review the Production capacity of proposed production facility situated at City Survey No. NA/509/P2, Behind Shankar Parvati Cotton Mill in Village: Borisana, Taluka: Kadi, District: Mehsana – 384441, Gujarat, India for the purpose of proposed IPO. The conclusion of the project based on document/data/information provided by company and our professional judgement is as under.

### **Estimation of Effective Production Capacity Addition:**

The Effective production capacity addition of proposed production facility of KPL situated at City Survey No. NA/509/P2, Behind Shankar Parvati Cotton Mill in Village: Borisana, Taluka: Kadi, District: Mehsana – 384441, Gujarat, India as on 4<sup>th</sup> August, 2025 is mentioned as under..

<b>Sr. No.</b>	<b>Name of Product</b>	<b>Effective Proposed Capacity Addition (in MTPA)</b>
1	Printed and Laminated Woven Polypropylene	32,700

The reported analysis, opinion and conclusion are limited only by the information provided by the company and reported assumptions and limiting conditions in the report.

# **EXHIBIT A – EXISTING INSTALL CAPACITY**

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# 11. EXHIBIT A - EXISTING INSTALL CAPACITY

**Tape line - 24,400 TPA**

**Assumptions**

Particulars – Unit-1	Tape Line Machine	Capacity Unit
Capacity of Each Machine	600	Kg/Hour
Effective No. of hours/Day	23	Hour/Day
Total Kg per day/Machine	13,800	Kg/Day
No of Effective Working (Days/Annum)	312	No. of days/Annum
Total Production in Kg/Annum	4,305,600	Kg/Annum
Total Production in Ton/Annum	4,306	TPA
No. of Tape Line	2	Nos.
<b>Total Production in Ton/Annum</b>	<b>8,610</b>	<b>TPA</b>

**Assumptions**

Particulars – Unit-2	Tape Line Machine	Capacity Unit
Capacity of Each Machine	600	Kg/Hour
Effective No. of hours/Day	23	Hour/Day
Total Kg per day/Machine	13,800	Kg/Day
No of Effective Working (Days/Annum)	312	No. of days/Annum
Total Production in Kg/Annum	4,305,600	Kg/Annum
<b>Total Production in Ton/Annum</b>	<b>4,310</b>	<b>TPA</b>

**Assumptions**

Particulars – Unit-2	Tape Line Machine	Capacity Unit
Capacity of Each Machine	850	Kg/Hour
Effective No. of hours/Day	23	Hour/Day
Total Kg per day/Machine	19,550	Kg/Day
No of Effective Working (Days/Annum)	312	No. of days/Annum
Total Production in Kg/Annum	6,099,600	Kg/Annum
<b>Total Production in Ton/Annum</b>	<b>6,100</b>	<b>TPA</b>

# 11. EXHIBIT A - EXISTING INSTALL CAPACITY

## Tape line

Assumptions

Particulars – Unit-3	Tape Line Machine	Capacity Unit
Capacity of Each Machine	750	Kg/Hour
Effective No. of hours/Day	23	Hour/Day
Total Kg per day/Machine	17,250	Kg/Day
No of Effective Working (Days/Annum)	312	No. of days/Annum
Total Production in Kg/Annum	5,382,000	Kg/Annum
Total Production in Ton/Annum	5,382	TPA
No. of Tape Line	1	Nos.
<b>Total Production in Ton/Annum</b>	<b>5,380</b>	<b>TPA</b>

# 11. EXHIBIT A - EXISTING INSTALL CAPACITY

## Gravure Printing 5,350 TPA

Assumptions

Particulars – Unit-1	Gravure Printing	Capacity Unit
Capacity of Machine	8,500	Meter/Hour
Effective No. of hours/Day	18	Hour/Day
Total Meter per day/Machine	153,000	Meter/Day
Total Meter per Annum	312	No. of days/Annum
Total Meter per Annum	47,736,000	Meter/Annum
Gram per meter	0.016	Kg per meter
Total Kg per Annum	763,776	Kg/Annum
Total Production in Ton/Annum	763.77	TPA
No. of Gravure Machine	7	Nos.
<b>Total Production in Ton/Annum</b>	<b>5,350</b>	<b>TPA</b>

# 11. EXHIBIT A - EXISTING INSTALL CAPACITY

## Lamination – 5,820 TPA

Assumptions

Particulars – Unit-1	Lamination	Capacity Unit
Capacity of Machine	8100	Meter/Hour
Effective No. of hours/Day	22	Hour/Day
Total Meter per day/Machine	178,200	Meter/Day
Effective No. of Days/Annum	312	No. of days/Annum
Total Meter per Annum	55,598,400	Meter/Month
Gram per meter	0.019	Kg per meter
Total Kg per Annum	1,056,370	Kg/Annum
Total Production in Ton/Annum	1056	TPA
No. of Mixer Machine For Lamination	1	Kg/Annum
<b>Total Production in Ton/Annum</b>	<b>≈ 1,060</b>	<b>TPA</b>

Assumptions

Particulars- Unit-1	Lamination	Capacity Unit
Capacity of Machine	9,000	Meter/Hour
Effective No. of hours/Day	22	Hour/Day
Total Meter per day/Machine	198,000	Meter/Day
Effective No. of Days/Annum	312	No. of days/Annum
Total Meter per Annum	61,776,000	Meter/Month
Gram per meter	0.019	Kg per meter
Total Kg per Annum	1,173,744	Kg/Annum
Total Production in Ton/Annum	1,174	TPA
No. of Mixer Machine For Lamination	1	Kg/Annum
<b>Total Production in Ton/Annum</b>	<b>≈ 1,170</b>	<b>TPA</b>

# 11. EXHIBIT A - EXISTING INSTALL CAPACITY

## Lamination

Assumptions

Particulars – Unit-1	Lamination	Capacity Unit
Capacity of Machine	13,750	Meter/Hour
Effective No. of hours/Day	22	Hour/Day
Total Meter per day/Machine	302,500	Meter/Day
Effective No. of Days/Annum	312	No. of days/Annum
Total Meter per Annum	94,380,000	Meter/Month
Gram per meter	0.019	Kg per meter
Total Kg per Annum	1,793,220	Kg/Annum
Total Production in Ton/Annum	1,793	TPA
No. of Mixer Machine For Lamination	2	Kg/Annum
<b>Total Production in Ton/Annum</b>	<b>≈ 3,590</b>	<b>TPA</b>

# 11. EXHIBIT A - EXISTING INSTALL CAPACITY

## Unit-1 - Ad -Lamination – 2,040 TPA

Assumptions

Particulars	Lamination	Capacity Unit
Capacity of Machine	10,200	Meter/Hour
Effective No. of hours/Day	20	Hour/Day
Total Meter per day/Machine	204,000	Meter/Day
Effective No. of Days/Annum	312	No. of days/Annum
Total Meter per Annum	63,648,000	Meter/Annum
Gram per meter	0.016	Kg per meter
Total Kg per Annum	1,018,368	Kg/Annum
Total Production in Ton/Annum	1,018	TPA
No. of Ad-Lamination Machine	2	Nos.
<b>Total Production in Ton/Annum</b>	<b>2,040</b>	<b>TPA</b>

## Unit-1 - Multi- Filament Yarn – 370 TPA

Assumptions

Particulars	Lamination	Capacity Unit
Capacity of Machine	60	Kg/Hour
Effective No. of hours/Day	20	No. of hours/Day
Total Kg per Day	1200	Kg/Day
Effective No. of Days/Annum	312	No. of days/Annum
Total Kg/Annum	374400	Kg/Annum
<b>Total Production in Ton/Annum</b>	<b>370</b>	<b>TPA</b>

# 11. EXHIBIT A - EXISTING INSTALL CAPACITY

Liner - 1,270 TPA

Assumptions

Particulars – Unit-1	Lamination	Capacity Unit
Capacity of Machine	52.5	Kg/Hour
Effective No. of hours/Day	22	No. of hours/Day
Total Kg per Day	1,155	Kg/Day
Effective No. of Days/Annum	312	No. of days/Annum
Total Kg/Annum	360,360	Kg/Annum
Total Production in Ton/Annum	360.36	TPA
No. of Ad-Lamination Machine	2	Nos.
<b>Total Production in Ton/Annum</b>	<b>720</b>	<b>TPA</b>

Assumptions

Particulars – Unit-3	Lamination	Capacity Unit
Capacity of Machine	80	Kg/Hour
Effective No. of hours/Day	22	No. of hours/Day
Total Kg per Day	1,760	Kg/Day
Effective No. of Days/Annum	312	No. of days/Annum
Total Kg/Annum	549,120	Kg/Annum
Total Production in Ton/Annum	549.12	TPA
No. of Ad-Lamination Machine	1	Nos.
<b>Total Production in Ton/Annum</b>	<b>550</b>	<b>TPA</b>