



ASIAN-INDIA CO-OPERATION IN FOOD SECURITY, AGRICULTURE TECHNOLOGY & FOOD ENGINEERING

World Trade Centre Complex, Mumbai

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**Topic : Asian Trade & Investment Co-operation
in the Agriculture & Food Sector**

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Jaipur, Rajasthan

Percentage of losses estimated for major produces

Crop	Cumulative wastage (per cent)
Cereals	3.9 – 6.0 per cent
Pulses	4.3-6.1 per cent
Oil seeds	2.8-10.1 per cent
Fruits & Vegetables	5.8-18.0 per cent
Milk	0.8 per cent
Fisheries (Inland)	6.9 per cent
Fisheries (Marine)	2.9 per cent
Meat	2.3 per cent
Poultry	3.7 per cent

Different stages of processing of manufactured food products

Supply Chain in Food Processing Industries



Contribution of Food Processing Industries to Gross Domestic Product (Rs. Crore)

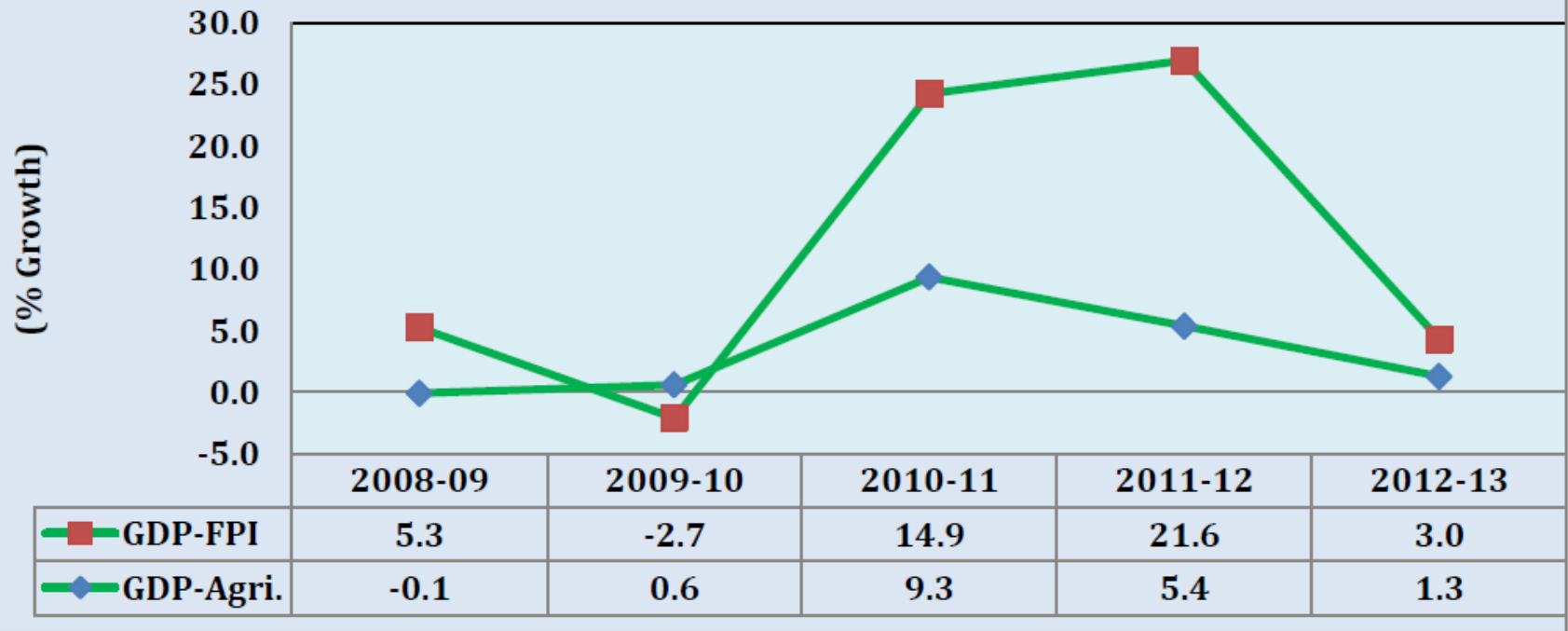
S. No.	Description	2008-09	2009-10	2010-11	2011-12	2012-13	
	GDP at Factor Cost, Of which	41,58,676	45,16,071	49,18,533	52,47,530	54,82,111	
1	GDP-Agriculture*	5,88,757	5,92,110	6,47,305	6,82,016	6,90,646	
2	GDP: Manufacturing	6,56,302	7,30,435	7,95,152	8,54,098	8,63,876	
3	GDP-FPI	60,378	58,752	67,508	82,063	84,522	
	Growth (%)						AAGR \$
4	GDP at Factor Cost	6.7	8.6	8.9	6.7	4.5	7.1
5	GDP-Agriculture*	-0.1	0.6	9.3	5.4	1.3	3.3
6	GDP: Manufacturing	4.3	11.3	8.9	7.4	1.1	6.6
7	GDP-FPI	5.3	-2.7	14.9	21.6	3.0	8.4
	Share of FPI in GDP (%)						Average
8	GDP FPI as a share of GDP in Agriculture*	10.3	9.9	10.4	12.0	12.2	11.0
9	GDP FPI as a share of GDP in Manufacturing	9.2	8.0	8.5	9.6	9.8	9.0

Source: National Accounts Statistics-2014; * Excludes Forestry & Logging; \$: Five Year Average Annual Growth Rate

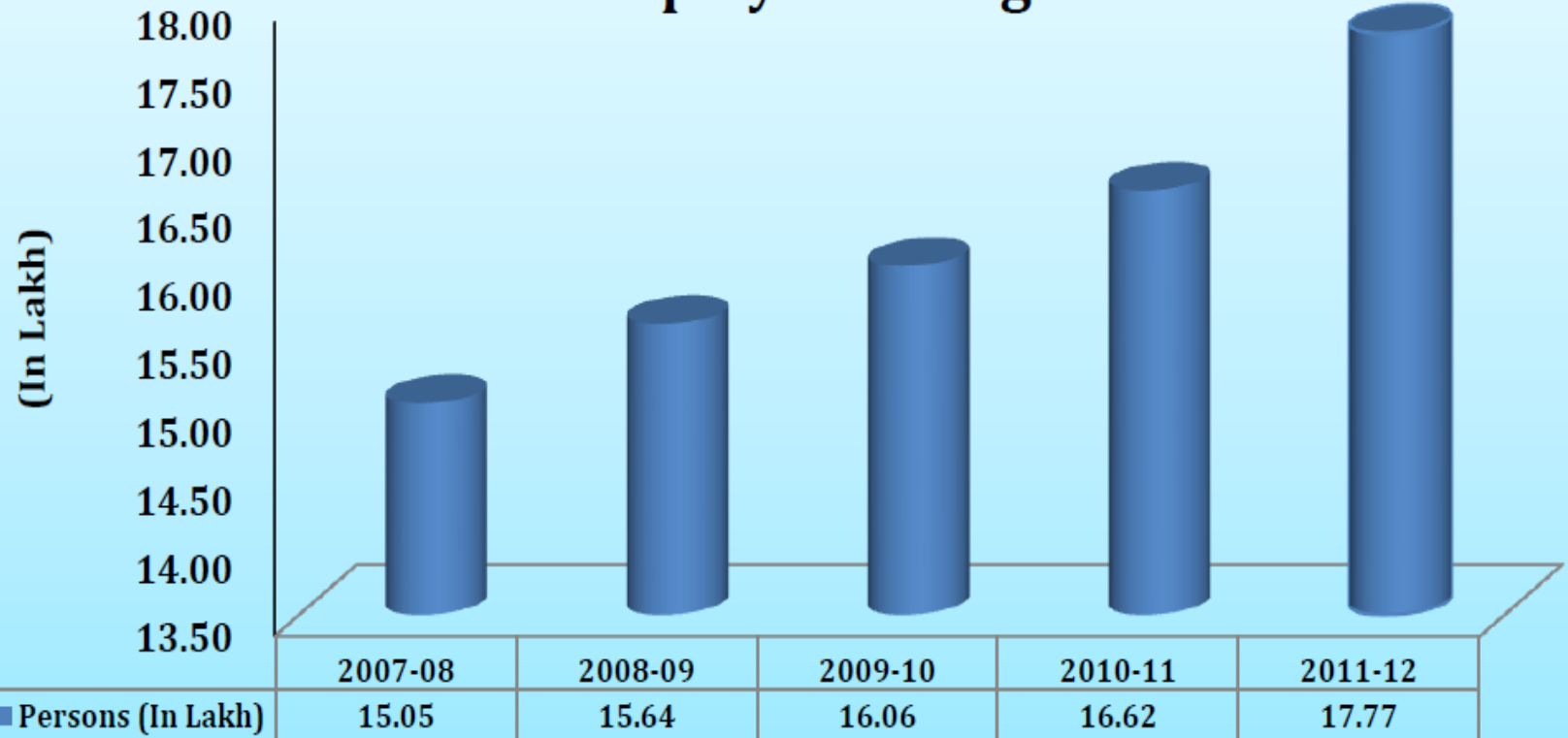
GDP: Sum of GVA (value of output less the value of input used up in the process of production) of all resident producer units of the economy during the reference period.

Growth in Food Processing Sector

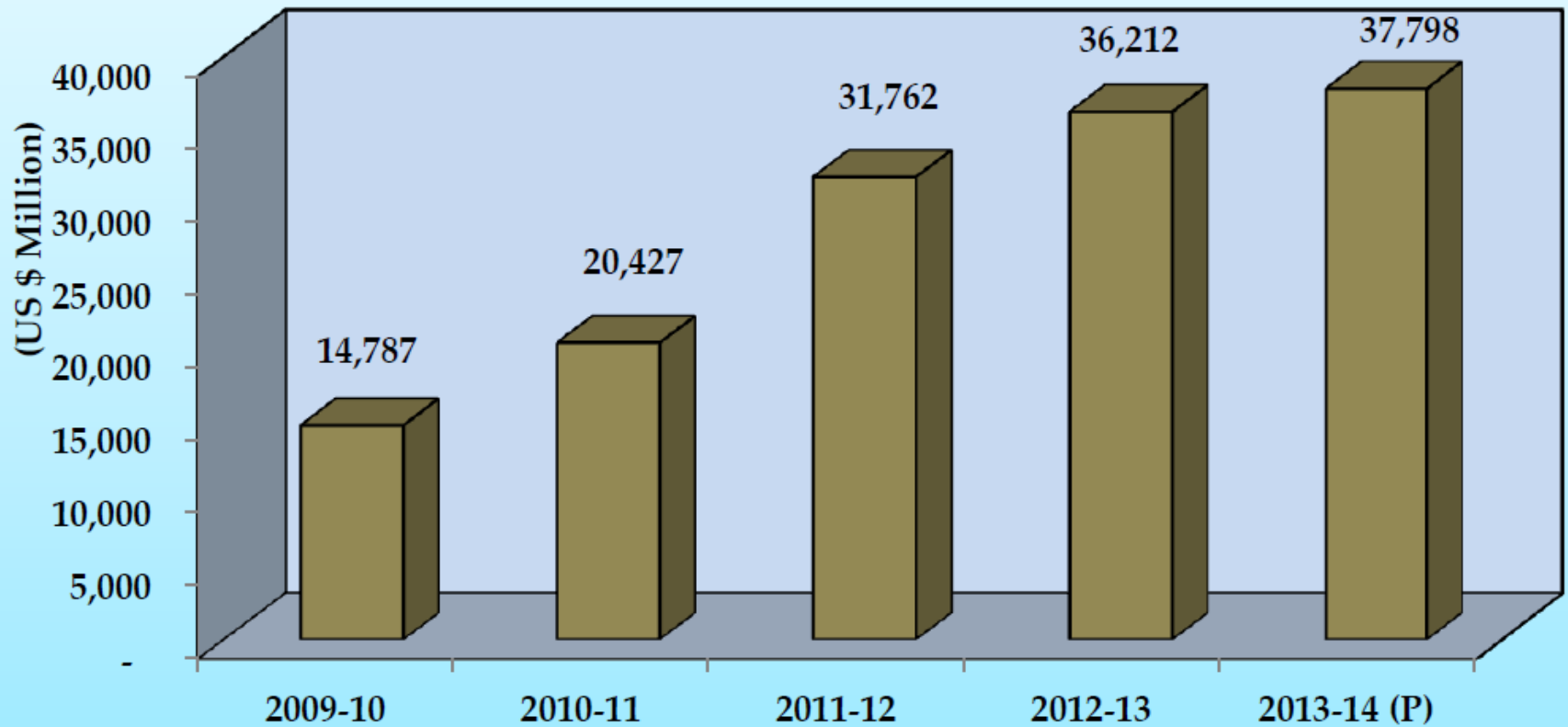
Growth in Food processing sector & Agriculture at 2004-05 prices



Persons employed in Registered FP units



Export of processed Food & Related Commodities (US \$ Million)



Exports of major food & related commodities from Food Processing sector

S.no.	Exports	2012-13	2013-14 (P)	2013-14 (P)	
		(US \$ Million)		(%) Growth	(%) Share
	Total Exports	3,00,401	3,12,621	4.07	-
	Exports-FPI, of which	36,212	37,798	4.38	12.1
1	Marine products	3,464.08	5,014.89	44.77	13.3
2	Rice- Basmati	3,564.04	4,866.33	36.54	12.9
3	Meat & meat preparations	3,291.98	4,481.35	36.13	11.9
4	Rice-other than Basmati	2,651.97	2,875.67	8.44	7.6
5	Cashews	746.97	842.39	12.77	2.2
6	Fresh Vegetables	605.23	842.30	39.17	2.2
7	Fresh Fruits	607.79	726.76	19.57	1.9

Foreign Direct Investment (FDI) inflows in Food Processing sector in the country during last 6 years and current year

S. No.	Year (April- March)	FDI (Rs. Crore)	FDI (US \$ Million)
1	2007-08	279.01	70.17
2	2008-09	455.59	102.71
3	2009-10	1,314.23	278.89
4	2010-11	858.03	188.67
5	2011-12	826.16	170.21
6	2012-13	2193.65	401.46
7	2013-14	25,106.78	3,982.88

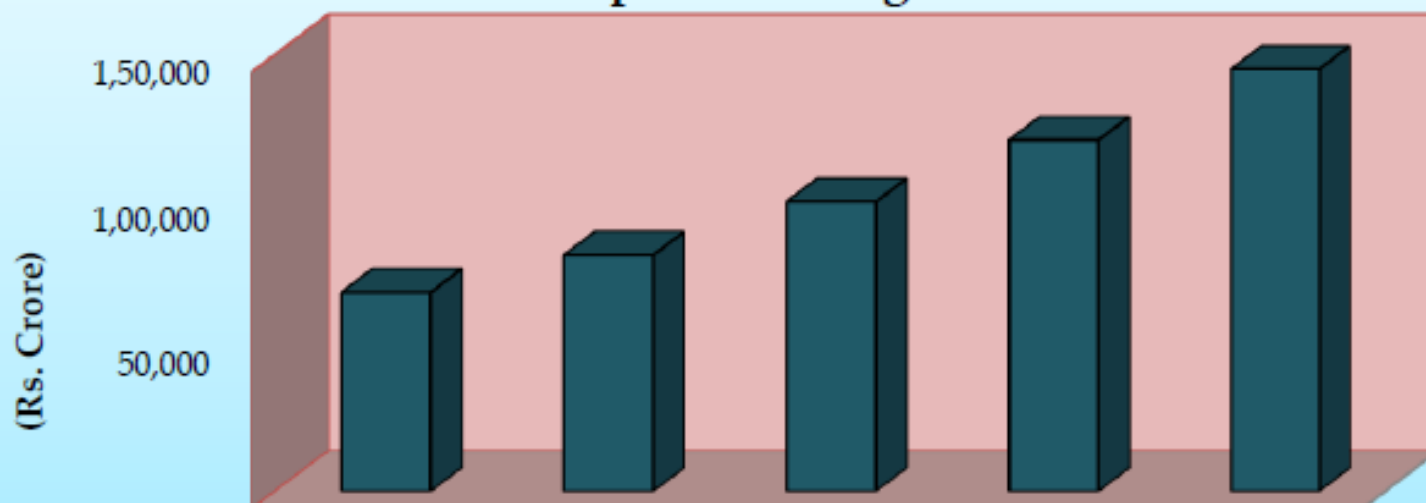
Source: Department of Industrial Policy and Promotion (DIPP)

Fixed Capital* in Registered Food Processing Industries

Year	2007-08	2008-09	2009-10	2010-11	2011-12	AAGR \$
Fixed Capital (Rs. Crore)	68,335	81,156	99,482	1,20,705	1,45,038	
Growth Rate (%)	18.93	18.76	22.58	21.33	20.16	20.35

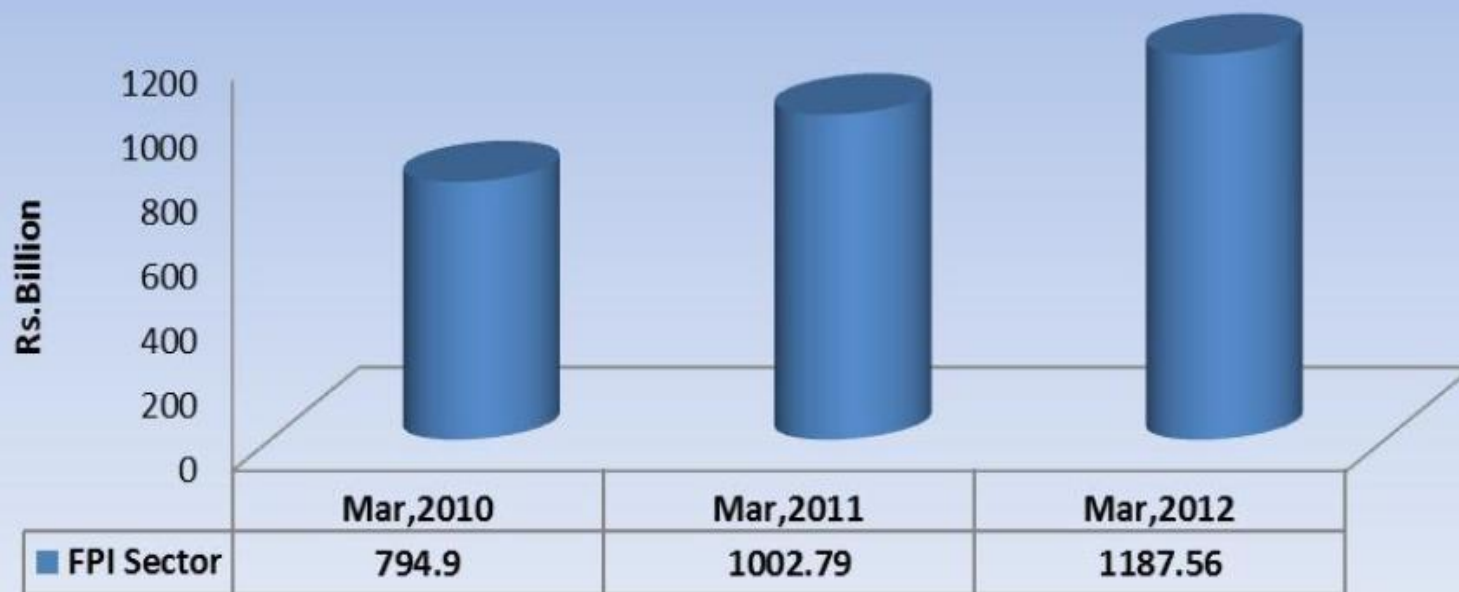
Source: Annual Survey of Industries, CSO; *: Fixed capital: Depreciated value of Fixed Assets owned by factory. \$: Average Annual Growth Rate for 5 years.

Fixed Capital* in Registered FP units



	2007-08	2008-09	2009-10	2010-11	2011-12
■ Fixed Capital	68,335	81,156	99,482	1,20,705	1,45,038

Deployment of Bank Credit in FP Sector



Source: Reserve Bank of India

A Typical Food Processing Industry



GREENTECH

GREENTECH MEGA FOOD PARK

Roopangarh, Dist. Ajmer RAJASTHAN



Under Mega Food Park Scheme of Ministry of Food Processing Industries
Government of India

PROMOTERS

WAIWAI

CG Foods India Pvt. Ltd.

Genus

Genus Power Infrastructures Ltd.

ARG

ARG Developers Pvt. Ltd.

Mr. Surja Ram Meel

Mr. Sunil Bansal

Mr. Suresh Kumar Agarwal



Mamtech Associates Pvt. Ltd.

**THE INVESTMENT DESTINATION
IN**

FOOD PROCESSING - A SUNRISE INDUSTRY

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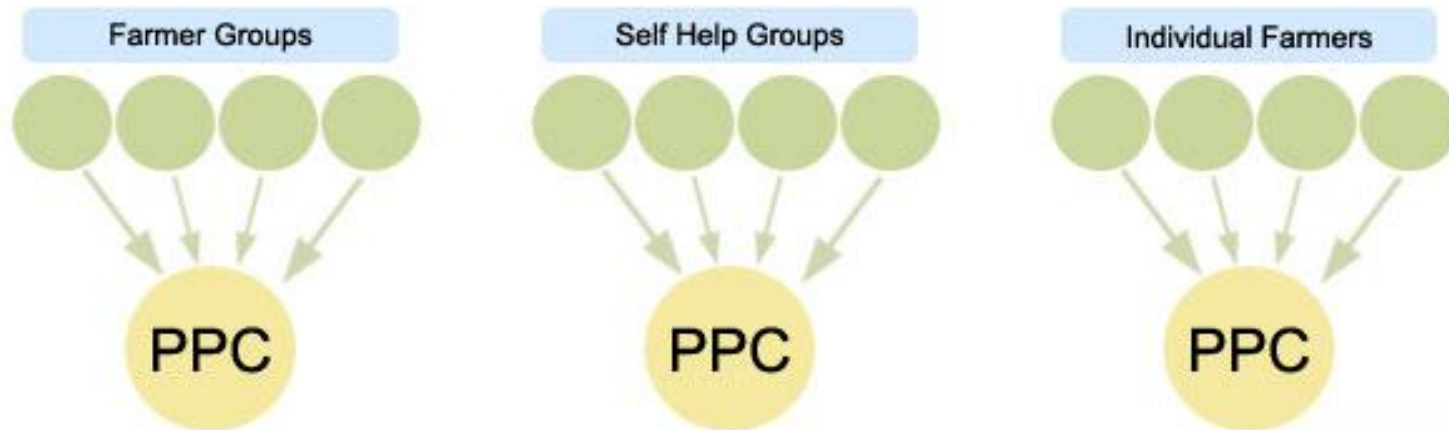
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Concept of Food Park



Mega Food Park Model



Food Park Business Chain



Harvest



Transport



Distribution



Storage



Farm Products

Elements of Successful Food Business Chain



Assembly/Sorting/Packing



Pre-Production



Production Planning



Processing

Basic Enabling Infrastructure Facilities at the Park

State of art infrastructure by renowned architects, master planners and engineers-

- Road network with pavement, junctions, footpath etc
- Non-stop water and power availability with captive power
- Water treatment facilities
- Parking space
- Storm water drainage system
- Fire fighting
- ETP and STP
- Signage, landscaping, street lighting
- Telecommunication infrastructure



Core Processing Facilities

Component	Capacity
Silo	17500 MT
RM Warehouse	2500 MT
F G Warehouse	5000 MT
Cold Storage	5000 MT
Ripening Chamber	120 MT
IQF along with prep line	2 MTPH
Deep Freeze	1000 MT
Pack House including Sorting Grading for F&V	10 MTPH
Crates, Pallets & Forklifts	Lump sum
Food Testing Lab	Lump sum
CA Chamber	500 MT
Reefer Van	6 Nos
Steam Generator	8 MTPH



Thank You