



Food Processing Industries in West Bengal : Infrastructure, Potential, and Opportunities



सत्यमेव जयते

Directorate of Food Processing Industries
GOVERNMENT OF WEST BENGAL

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State Demographic Overview

Total Area 88,752 square kilometers.

Bounded by Assam, Bangladesh, Bhutan, Bihar, Jharkhand, Nepal, Orissa, Sikkim and Bay of Bengal in the south.

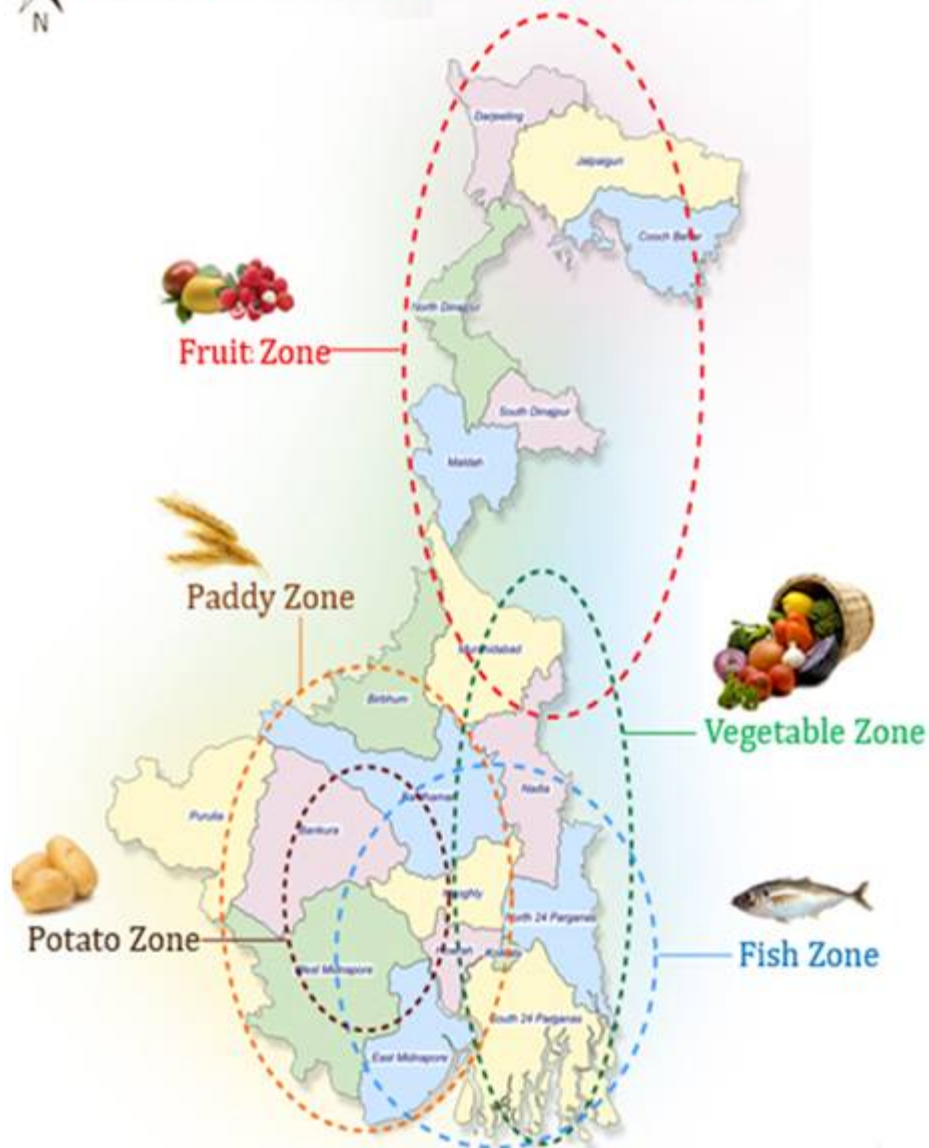
4th largest in terms of population; 2nd most densely populated state.

State with decent amount of rain fall, has a huge agricultural and horticultural base as compared to entire nation. The states' favorable agro climatic zones have made it one of the leading producers of numerous food products in India.

CROP	AGRI CLIMATIC ZONES (Districts where grown)
Pineapple	Coochbehar, Jalpaiguri, Siliguri, North Dinajpur
Mango	Malda, Murshidabad
Lychee	Malda, Murshidabad, Nadia, North 24- Parganas
Vegetables	Howrah , North 24 Parganas, Nadia, South 24 Parganas
Potato	Hooghly, Burdwan, Howrah, East Midnapore
Flowers	East Midnapore, Jalpaiguri, Nadia , Siliguri



MAP OF WEST BENGAL (showing resource zones)



WEST BENGAL Major Horticulture Crops 2013-14

■ West Bengal (total in million ton)
■ India (total in million ton)
 ■ Source : National Horticulture Database of NHB



Lands available for constructions of industries and setting up of vegetable/ fruit processing centers:

1. Food Park Assisted by Government of West Bengal

a. Malda Food Park

Location: In the heart of fruit and vegetable producing region in eastern India, on the outskirts of Malda(25°10'43" N, 88°14'46"E)

On NH34 & by rail connecting Kolkata with North East States and Delhi

335 km North of Kolkata

Nepal, Bhutan and Bangladesh may be considered as export market

Availability of raw materials: Available liberally from adjoining districts and Jharkhand; Vegetables, fruits and paddy

Local and Government support:

Active support for project from Local, State and Central Governments

Easy availability of skilled and unskilled work force at competitive rates

Total number of Plots available: 10 [From 0.5 acres to 1.0 acres]

Facilities available: 2 SME units already functioning.

Infrastructure : Wide well paved metal roads including truck terminal; Administrative building; ETP and water treatment plant ;Pack house, ware house and cold chamber ; Food Court and backup power generator ; Very near NH 34

Special incentive for units within Food Park

Term Loan @ 9.5% from NABARD

For details : www.ipshabengal.com

STATUS AS ON 28-02-2013

ALLOTMENT SUMMARY:

TOTAL PLOTS = 35 Nos. - 28.02 acres
 ALLOTTED & AGREEMENT SIGNED = 25 nos. - 20.09 acres
 INDUSTRIAL PLOTS = 2 ALLOTTED & AGREEMENT SIGNED OUT OF 4

INDIA ALLOTTED & AGREEMENT SIGNED WBSFPA/HDCL

MALDA FOOD PARK AT MALDA

ALLOTMENT STATUS

PROJECT OF :

DEPARTMENT OF FOOD PROCESSING INDUSTRIES & HORTICULTURE

IMPLEMENTING AGENCY :

WEST BENGAL STATE FOOD PROCESSING AND HORTICULTURE DEVELOPMENT CORPORATION LTD. (WBSFPA/HDCL)

PROJECT MANAGEMENT CONSULTANT:

i-win
 I - WIN Advisory Services Limited



b. Sudharas Food Park (Phase – III)

Developed by : WBIDC

Area : 34.12 acres

Location: District - Sankrail, District - Howrah, West Bengal, India.
(22°32'40" N, 88°13'19" E)

Located on NH-6 at a distance of 28 km from Kolkata.
Nearest Airport – Netaji Subhas Chandra Bose International Airport, Kolkata.

Nearest Port – Kolkata Dock Complex (34 km) and also quite close to the port town of Haldia.

Nearest Railway Station – Sankrail on the South Eastern Railway (5 km)

Total number of Plots available: 2 [0.5 acres and 0.51 acres]

Fully integrated Industrial Park with all the basic facilities necessary for manufacturers, exporters and entrepreneurs dealing in the Agro / Food and related industries

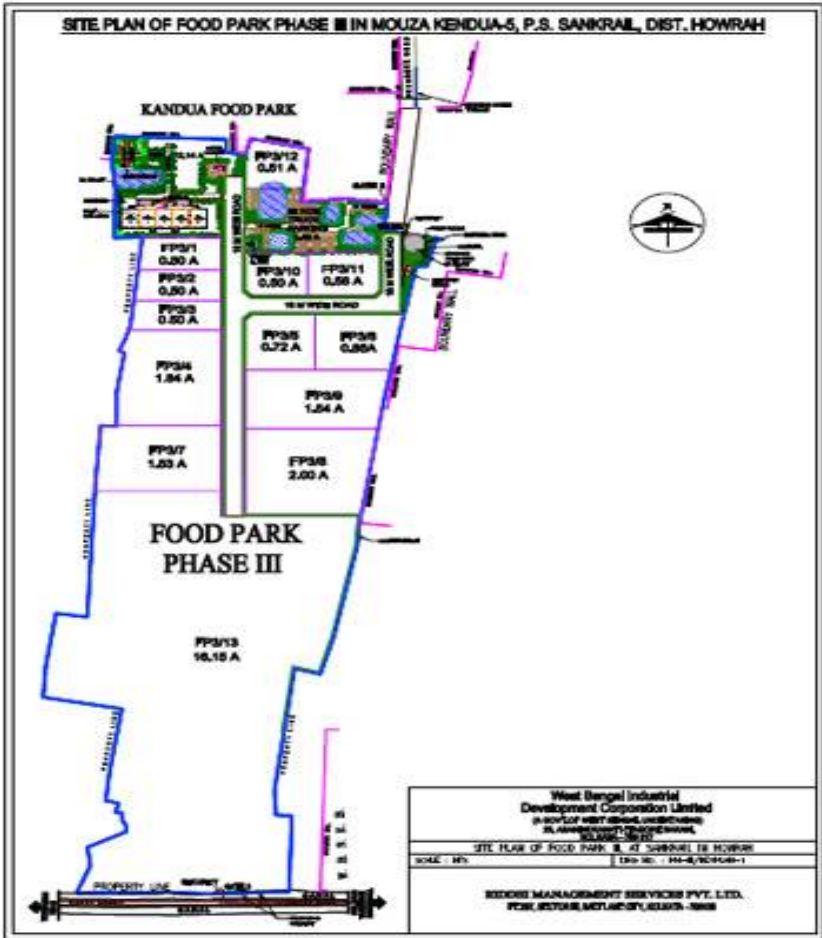
Standard design factories with plug and play facility for small manufacturing units

Special incentive for units within Food Park

Term Loan @ 9.5% from NABARD

For details: www.wbidc.com

SITE PLAN OF FOOD PARK PHASE III IN MOUZA KENDUA-5, P.S. SANKRAIL, DIST. HOWRAH



2. Food Park Assisted by Government of India

a. Jangipur Bengal Mega Food Park

Developed by : Jangipur Bengal Mega Food Park Limited

Area : 86.20 acres, well developed infrastructure.

Availability of abundant quantity of raw materials in neighboring areas.

Location: Murshidabad District, West Bengal, India. Located on NH-34 at a distance of 250 km from Kolkata (24°27'32"N, 88°6'17" E)

Nearest Airport – Netaji Subhas Chandra Bose International Airport, Kolkata.

Total number of Plots available: 15 [From 50 dcml to 2 acres]

Ready shades with plug and play facility for SMEs – 1800+ sq. mtrs. Each.

Standard design factories with plug and play facility for small enterprise – 300 sq. mtrs. each.

Special incentive for units within Food Park



Term Loan @ 9.5% from NABARD

For details: www.jangipurmegafaodpark.com

LAYOUT OF PLOTS TO BE ALLOTTED TO SET UP UNITS UNDER PHASE - I PROJECT OF JANGIPUR MEGA FOOD PARK



LEGEND

-  PROJECT PROPERTY LINE
-  GREEN AREA

Products that have a high value of production in West Bengal

CROPS
Paddy
Vegetables
Potato
Agricultural by-products
Fruits
Wheat
Tea
Jute
Condiments & Spices

SOURCE: Annual Survey of Industries, Government of India & Economic Review, Government of West Bengal

Advantages of the Food Processing Sector

A "Sunrise" Sector : Huge availability of raw materials – vegetables and fruits, flowers, rice etc..

Strong natural advantage....fertile soil, water, six agro-climatic zones.

Competitively priced skilled labour.

Plots are available in three Food Parks at attractive rates (more Food Parks may come up).

Abundant availability of power.

Industry is a low pollutant generator.

Well-developed Rail & Road Network/close to port and airport.

Growing market for processed products including vegetables, meat, poultry, and consumer (ready to eat) foods.

Industry has high "multiplier" effect, giving rise to many indirect jobs as compared to direct jobs.

Tax benefits include provisions in Income Tax, Service Tax, Customs Duty, and Central Excise Duty.

Categorization of Industrial units:

Category	Sector	Investment in P&M
MSME	Manufacturing Sector	Upto Rs. 10 crore
	Service Sector	Upto Rs. 5 crore
Large	Manufacturing Sector	Above Rs. 10 crore
	Service Sector	Above Rs. 5 crore

Major incentives for MSME units:

One of the most attractive incentive schemes in the country

State divided into five zones :

Zone A: Kolkata Municipal Corporation, all municipal areas of North and South 24 Parganas and Howrah

Zone B: Hooghly, rural areas of Howrah, North and South 24 Parganas, Municipal areas of Paschim Medinipur, Purba Medinipur, Nadia, Burdwan and Siliguri Municipal Corporation.

Zone C: Rural areas of Burdwan, Purba Medinipur, Nadia, Malda, Jalpaiguri, Murshidabad, Darjeeling (excluding Siliguri Muhukuma Parisad), North and South 24 Parganas.

Zone D: Uttar Dinajpur, Dakshin Dinajpur, Birbhum, Purulia, Bankura, Jalpaiguri, Darjeeling, Purulia, Bankura, rural areas of Paschim Midnapur; also, area under Sundarbans of North and South 24 Parganas

Zone E: Coochbehar

Incentives provided MSME&T Department

SI	Components	MSME Policy (2013-2018)
1.	Fixed Capital (Plant & Machineries + Technical Civil work)	<p>For Zone A and B -NIL N.B 15% subsidy for all enterprises wholly owned by Women, SC, /ST and Minority community for Micro unit and 10% for Small unit. (Only Plant & machineries are eligible) Investment for Micro Units. For Zone C- Micro- 25%, Subject to max. 50 lakh Small- 15%, subject to limit of 50 lacs For Zone-D Micro- 40%, Subject to max. 50 lakh Small- 30%, subject to limit of 50 lacs Fore Zone E: Micro- 60%, Subject to max. 75 lakh Small- 40%, subject to limit of 75 lacs N.B:-An additional 20% subsidy for all enterprises wholly owned by Women or SC/ST or Minority community for Micro unit and 10% for Small unit. For zone C, D & E <u>These incentives would be in addition to what the units get from Gol under any other schemes</u></p>
2.	Interest Subsidy on Term Loan	<p>Zone A and B- 6%of the annual interest liability on the term loan for setting up all category units for a period of 5 yrs, Zone-C & Zone-D & E areas 7.5% of the annual interest liability on the term loan for setting up all category units for a period of 5 years. For Medium Enterprises: 25% of term loan interest, subject to max. 175 lakh for 5 years. For B & C Zone For Zone D & E 25% of term loan interest, subject to max. 175 lakh for 7 years.</p>

SI	Components	MSME Policy (2013-2018)
3.	Waiver of Electricity Duty (from commercial production date)	<p>Micro & Small: 50% waiver for 5 years Zone A&B, 75% for 5 years Zone C,D & E N.B 100% waivers for all enterprises wholly owned by Women, SC, /ST and Minority community.</p> <p>For Medium: B& C 100% (25 lakhs per year max. 1.25 crores for 5 years) D & E 100% for 5 years and 75% for 6th - 10th years subject to maximum of 50 lakh per year or 2.50 crores in 5 year.</p>
4.	Power Subsidy(from commercial production date)	<p>Rs. 1.00/Kwh for Zone A&B Rs. 1.50/Kwh for Zone C,D&E</p> <p>For a period of 5 years subject to ceiling of Rs.20 lacs/annum for Small Unit and 30 lacs/ annum for medium.</p>
5.	Incentive for Energy Efficiency	<p>1. 50% reimbursement of the cost of energy audit undertaking by a certified agency to be available after implementation of the recommendation.</p> <p>2. 25% reimbursement of the cost of installations for energy conservations as per energy audit subject to a ceiling of Rs. 2.00 lacs</p>
6.	Refund of Stamp Duty & Registration Fees	<p>1. 100% for Zone D, E 2. 75% for Zone C 3. 50% for Zone B 4. 25% for Zone A For Medium: B, C, D & E-75%</p>
7.	Entry Tax	<p>1. Reimbursement of entry tax on P& M available after beginning of commercial production by the unit.</p> <p>2. Reimbursement of entry tax on procurement of raw materials for the initial 3 years.</p>

SI	Components	MSME Policy (2013-2018)
8.	VAT	Zone B&C -80% for 8 years or 75% of the Fixed Capital Investment whichever attained earlier Zone D&E -90% for 8 years or 75% of the Fixed Capital Investment whichever attained earlier
9.	Refund of CST	Refund of CST for 3 years from date of commercial production
10.	Water Conservation / Environment compliance	Assistance up to 50% or Rs. 2.00 lacs Max. For water conservation/ pollution control measures (Micro & Small)
11.	Standard Quality Compliance	50% cost up to a max. Rs. 5.00 lacs for obtaining certification/ accreditation like ISO-9000,14000,18000 etc (Micro & Small)
12.	Work force welfare assistance	Reimbursement of 100% in 1 st Yr and 75% in next remaining year's expenditure incurred towards ESI and EPF as follows. Zone-B 5 yrs Zone-C 7 yrs Zone- D& E 9 yrs
13.	Incentive for Patent Registration/ GI	1. State Govt. will provide consultancy and facilitation services for identification and registration of GI of items 2. Reimbursement of 50% of expenditure for obtaining patent registration subject to max. Rs. 5.00 lacs

**Separate Incentives Scheme for Large Scale units is also available on the basis of the following zone
(Implementing agency : C&I Department)**

Group A - Kolkata Municipal Corporation, North 24 Parganas (Bidhannagar Municipality and Nabadiganta Industrial Township), South 24 Parganas (Alipur Subdivision).

Group B - Howrah, North 24 Parganas (Barrackpore and Barasat Sadar Subdivisions), South 24 Parganas (excluding the area under the jurisdiction of the Kolkata Municipal Corporation and Sundarban Development Board), Durgapur and Asansol Subdivisions of Burdwan District and Haldia Subdivision of Purba Medinipur Districts.

Group C - Murshidabad, Birbhum, Nadia, Hooghly Districts, Burdwan (excluding Asansol and Durgapur Subdivisions), Purba Medinipur District (except Haldia Subdivision), North 24 Parganas (Bongaon and Basirhat Subdivisions), South 24 Parganas (Baruipur, Canning, Diamond Harbour, Kakdwip Subdivision).

Group D - Malda, Coochbehar, Uttar Dinajpur, Dakshin Dinajpur, Jalpaiguri, Darjeeling, Purulia, Bankura and Paschim Midnapur Districts and area under Sundarban Development Board.

Detailed information is available on WBIDC website (www.wbidc.com).

Support Available from Government – Food Processing Sector

Schemes of Cold Chain

Financial Assistance: 50% of the cost of plant & machinery and technical civil works subject to a maximum of Rs. 10 crores per project in general areas.

Schemes of Technology Up

gradation/Establishment/Modernization of Food Processing Industries

Financial Assistance: 25% of the total cost of plant and machineries and technical civil work, subject to maximum of Rs. 50 lakhs [Pending Approval]

Schemes of Reefer vehicles

Financial Assistance: 50% of the cost of New Reefer Vehicle(s)/Mobile pre-cooling van(s) up to a maximum of Rs. 50.00 lakh [Pending Approval]

Incentives also available for modified atmosphere storages for commodities such as Potato, Chillies, Carrot, Ginger, Onions, other vegetables and fruits.

Ease of Doing Business – Faster procedures; more transparency

❑ Time-bound delivery of services

- ✓ Any statutory permission from issuing of trade licenses to sanctioning building plans, conversion and mutation of land, environmental clearances, fire licenses, power connection and water permit will be delivered within prescribed time lines of 15 to 60 days.

❑ Streamlined processes

- ✓ Innovative measures introduced to reduce documentation burden for registration processes of industry, trade license, pollution clearances and land conversion.
- ✓ Sanctioning of building plans in industrial parks/estates will now be done by the concerned IDC.
- ✓ Introduction of Web-Based Services- All acts, rules, processes, protocol, application forms are now available on the websites of the concerned government departments.
- ✓ Digital report and returns for all labour law related obligations introduced.
- ✓ Tax administration and payment for all government transactions made online.

❑ Single Window Services

- ✓ MSME Facilitation Centres (MFC) in each district for MSME and Shilpa Sathi for large industry
- ✓ New administration framework has been initiated in Labour and Environment Departments to help business entities as single window service.

❑ **Deemed Approval**

- ✓ Provisions for deemed approvals introduced for applications on which suitable action is not taken within prescribed time limits related to building plan sanctions, mutation and conversions of land, factory license registration/renewal.

❑ **De-Linking of various licenses**

- ✓ Pre-permission from other govt. departments have been done away with for faster clearances and licenses will be given by respective departments.

E-Governance initiatives of State of West Bengal: appreciated by Government of India and by Trade and Industry Associations widely

Potential Areas for Investment

CROP	PROCESSED PRODUCTS THAT MAY BE DERIVED
Banana	Starch, Chips, Powder
Cauliflower, Cabbage, Carrot	Fresh cut, Frozen and assorted products
Citrus Fruits (Amla)	Juice, candy, Powder
Fish	Fresh and Frozen processed
Guava	Juice, concentrate, Fruit drinks, frozen halves, candies
Maize	Starch, Grit, Powder
Mango	Pickle, Aam Papad, Chutney, Candy, dried mango powder etc.
Meat	Fresh and Frozen processed
Pineapple	Juice, candy, pulp, concentrate, jam, jelly, etc.
Potato	Chips, Flakes, Powder, Fries, Starch etc.
Raw Milk	Butter, creme, ghee, Cottage Cheese, flavoured milk, spreads, milk powder, ice-cream, Curd, buttermilk
Rice	Milled rice, rice bran oil, powder, poha, puffed rice, noodles, etc.
Tomato	Puree, Juice, concentrate, ketchup, sauce etc.
Wheat	Atta, Flour (Maida), Suji, Rava, Pasta, noodles

Potential Projects

a) Vermicelli / Noodles/Rice noodles with different nutraceuticals/ favours /extract of fruit juice

b) Nutraceuticals dosa / idli mix etc.

Watermelon juice processing and packaging unit

High end cashew processing and packaging unit

Banana products: Banana flour/pickle/fruit bar/ banana baby food etc.

Onion paste manufacturing unit

Ground nut processing (Milk, oil, cheese) unit

Ice cream within the premises of Bhagirathi Milk Federation

IQF of fruits and vegetables unit

Sunflower oil processing unit

Guava processing and pickle manufacturing unit

Starch Factory

a) Bread, cakes etc. enriched with lycopene, anthocyanin, carotenoids

b) Anthocyanin enriched/betel vine flavored candy

c) Biscuits enriched with fiber etc.

Betel vine drink

Osmo-dried papaya, mango, pineapple etc.

Coconut products:

Coco-sip, Coco Cream/Milk, desiccated coconut

Mango, Litchi and Makhana Processing unit

Fish processing unit (Frozen & ready to cook)

Lacto fermented vegetables like cabbage, cauliflower etc.

Large modern abattoir under private sector

Fruits grading, storing and processing unit

RTS beverages of watermelon, guava, banana, vegetables

Banana Processing Unit

Studies / Project Profiles

Model 80 project profiles related to food processing sectors which may be technically & commercially viable in West Bengal are available in our Directorate.

Food Processing sectors are : i) Bakery & Confectionery; ii) Drinks & Beverages; iii) Cereals & pulse processing; iv) Edible oil; v) Ready to Eat Food; vi) Fruits & Vegetables; vii) Milk & Milk Processing; viii) Poultry Processing; ix) Meat & Meat Products; x) Fish & Marine Products; xi) Spices; xii) Banana Processing; xiii) Starch processing xiv) Others.

A survey on Food Processing Industries has been conducted under the aegis of Department of Food Processing Industries and Horticulture, Government of West Bengal. The survey covered 341 blocks of 18 districts and Kolkata and period covered was April, 2012 to September, 2012. The survey covers district wise information on

- Consumer base in terms of age group, population concentration
- Patterns of livelihood
- Connectivity in term of road ways, rail ways and airways
- Other infrastructure covering technical education, financial institutions, power supply station
- Raw material base in terms of availability of Agriculture, Horticulture, Livestock resources

- Related infrastructure like major markets for sourcing of raw materials, cold storage including multipurpose facilities, cold chain facilities, agriculture & horticulture research station, milk chilling plants, irradiation facilities
- Category wise food processing industry
- Employment scenario
- Major players
- Investment opportunities

District wise Investment opportunities according to survey are as given below.

Bankura:

A Mini Food Park can be proposed in the district. The park may be designed to accommodate oil, milk and rice processing units.

Oil seed available in other adjacent districts like Birbhum, Medinipur can be sources for the units in the Mini Food Park.

A Potato cold storage of capacity of 1.5 lakh Mt can be set up.

Birbhum:

This is one of the districts where raw material base like fruits and vegetables are not enough strong to create any cost advantage for manufacturing units. However units in micro and small scale can be set up to meet the local demand.

This district can be developed for rearing of animals like Bengal Black Goat, Cattle which in turn may help to attract related industries in the district.

Only exception is paddy processing where rice millers can source paddy from adjacent district Burdwan.

Moreover traditional Til Khaja and Morraba can be promoted through proper branding as the items produced from the district has accessibility to other districts of West Bengal.

Burdwan:

A Rice Bio Park can be set up where rice husk can be utilized for power generation. A report has been prepared in this regard.

Multiple milk chilling plants can be set up in the district to tap the milk produce in the district.

Cold storage for sweet water fish preservation.

2 Cold Storages for Potatoes with an average capacity of 1.5 Lakh MT.

A shift from the Non Processable to Processable forms of Potato.

There is an existing slaughter house at Durgapur, this can be modernized under the scheme for Modernization of Abattoir.

Onion Storage house: Balagarh Model can be replicated

Chilling plants of capacity 10-20 TLPD can be set up here.

Coochbehar:

The bountiful tomato produce in Haldibari can be processed at Haldibari itself. In bumper crop years, much of the produce rots. The bulk of the produce is usually exported out of the state to Delhi area or exported to Pakistan through the Wagah border as fresh produce. The outlet can be through New Jalpaiguri which is closer to Haldibari than District HQ at Cooch Behar. The tomato processing facility can be the nucleus for setting up a major Fruit and Vegetable Processing manufacturing unit. And this unit can be developed in PPP mode. The required land for this unit can be found in the Block Seed Farm in Haldibari, with an original area of 25 acres owned by the state Government. Some of this land was later transferred to Agriculture Marketing Department.

Oil can be extracted from linseed and sold for further processing. There were some such units in the district which one does not hear about any more. Low cost oranges from Bhutan can also be used for extraction and pouching and sold.

Dakshin Dinajpur

The district has no significant strength in terms of production of processable items other than paddy.

It holds rank 4th in sweet potato and 5th in radish which have very limited scope for processing.

However micro and small units, based on regular demand (like bakery, rice processing, oil processing, puffed rice) of the local people can be set up in the district.

Darjeeling

Indeed this is not true only for flowers. Many fruits, nuts and vegetables can be cultivated with ease here. As in 2000, even today one can see large cardamom, ginger and occasional orange trees and plants can be seen in the entire Cinchona plantation area. No wonder the district is home to the world famous "Darjeeling Tea" the most expensive and sought after tea in the entire world.

The Kalimpong area has a tradition of growing orchid plants where many farmers grow orchid plants in green houses entirely for exports through Delhi.

The Cinchona plantation areas, primarily in Munpoo and Mansong are probably the largest land area available with the Dept. of Food Processing in the state. And this land can be commercially exploited by the Department immediately, although there have been some encroachments on the land.

Hooghly

Raw materials as in potato, onion, groundnut and sesame are found in abundance.

The district also marks 1st in terms of production of potato and onion, 2nd and 3rd in terms groundnut and sesame respectively in the state. The district is 7th in terms of Sweet water Fish and production of Milk is also high. Each product can find enough room for investment in this district.

Potato: Proposed manufacturing units for Value added products such as Potato Powder- Large scale units; Potato flour which has a good market in parts of India and abroad too- Large Scale units. Potato based snacks- Small scale units & SME

Onion: Proposed one Manufacturing units for Value added products such as Dehydrated onion powder- Medium scale units; Onion paste- Medium scale units

Groundnut: Proposed two manufacturing units for Groundnut which is very rich in protein and also called “poor man’s nut” attracts processing units for various value added products such as Groundnut bars, Groundnut isolates, Groundnut based yoghurt, Groundnut butter , Groundnut cheese, Tofu etc will attract high investments in the district

Sesame: Proposed two manufacturing units for Value added product such as: Sesame oil ; Sesame paste (Tahini)

Chilling plant- Existing 7 BMC in various blocks with a total capacity of 14 TLPD. ; To meet requirement of fresh Milk 3-4 Chilling plants to be installed

Sweet Water Fish processing Unit: (Specially Genetically Improved Farmed Telapia) – One processing unit. Primarily popular for fish fillet which has a good market share and has ready investors.

Howrah

The district has a poor raw material base but biggest strength is its strategic location.

A standalone fruit processing unit can be set up in the district. A DPR on this project has already been prepared in this line by the Department of food Processing Industries & Horticulture.

2-3 mushroom processing centre supported with proper laboratory and raw material base can be considered. It has been observed that intake of mushroom is prevalent in urban area compare to rural area. Moreover the huge need of hotel and restaurants of Kolkata can be catered by this unit.

The district is also ideal for setting up of modern meat processing units, which needs to be approved under APEDA to facilitate export of meat from the state. These units can source the raw material (Raw meat) from up-coming modern slaughter house in Tangra under Kolkata Municipal Corporation.

Cold storage for sweet water fish preservation.

Jalpaiguri

In the district, a large number of SME units can be set up at different locations, preferably in the near vicinity of Jalpaiguri town which falls under the Siliguri Jalpaiguri Development area (SJDA). These can be for pre-processing tomato, papaya and peas for "table" usage, and processing the same and selling the same. In case of green peas, they can be dried, frozen and packaged. Jack fruit pre- processing and packaging for market sale etc.

Incidentally, papaya juice is now popular as a health drink in the large metro cities of India. Oil can be extracted from linseed and sold for further processing.

There is a big opportunity for slaughtering and processing of pigs. If hygienically reared and processed, they can serve the growing demand of pork and ham in the country. These also have good export possibilities for the meat, processed and even by-products. Land given to Yule Agro Industries Ltd for scientific cultivation of pineapple has now been returned back to the State Government. The department can make a proper plan for optimum utilization of the land to boost up the food processing industry in the district.

Malda

The district has strong raw material base in Mango, Litchi, Muskalai, Sugarcane, Makhana. Among all the varieties of Mango available in Malda, Ashini, Fazli are famous as processable varieties. Dabur is also taking Himsagar, known as table variety for processing purpose. They are collecting mature green mango from orchards of Malda to reduce the transportation loss.

Hence an automated mango processing unit can be set up in the district supported by aseptic packaging facilities.

Moreover unit operating in Malda and doing marketing in North Bengal and North Eastern states has a transportation cost advantage of Rs.15/- per crate compare to that of a unit in Kolkata.

In the small and micro scale numbers of mechanized unit can be set up for production of mango paper, bari from pulses (Kalai), Makhana,

Murshidabad

The district is one of the major suppliers of the Goat for slaughter purpose as the district is highest in number of Goat population in the state. Moreover Bangladesh has a huge demand for bovine meat which can be targeted as presently numbers of live bovine are transported to Bangladesh through board areas in the district.

Hence it may be ideal place for setting up of a modern slaughter house for both bovine and goat.

It is also observed that a large number of bakeries in unorganized sector is prevalent in every corner of the district. These bakery units can be encouraged to modernize their plants and machineries so that the district can come up as bakery hub of the state.

A goat milk processing center in small scale can also be set up for more value addition to the total goat milk production to the tune of 16.76 thousand MT.

Nadia

Sorting, grading and packaging units can be set up in numbers in small and micro level for both table purpose and processing purpose for vegetables and fruits

For further processing an Individual Quick Freezing (IQF) unit can be set up to serve the export market. It is observed from the export data that a considerable amount of fresh vegetables is exported through custom stations of West Bengal to other countries.

The district holds first rank in Banana production and presently Bananas of the district is transported to other states namely Jharkhand, Orissa, Bihar. 3-4 banana ripening chambers can be set up in the district.

A soya processing plant can be set up in the district on the basis of raw material available in Nadia and North 24 Parganas. Here raw material is soya available during Chhana preparation from milk.

Cold storage for sweet water fish preservation.

Chilling plant of capacity of 10-20 TLPD can be set up in the district.

North 24 Pgs.

The district is very near to Kolkata, hence all the facilities including market of Kolkata can be explored by a Modern Abattoir, especially for Poultry birds.

The biggest advantage is the connectivity of the district with Kolkata airport & Kolkata sea port which may capitalize for export business.

A state of the art pickle manufacturing unit can be set up in the district which can source raw materials from Nadia, Murshidabad and Malda and market its product in greater Kolkata area and other places of the state.

Besides small scale units can come up in the sub sector of Papad manufacturing.

Cold storage for Sea fish preservation

Cold storage for sweet water fish preservation

Paschim Medinipur

A ground nut processing unit can be set up in the district.

The district is suitable for setting up of Rice bran oil manufacturing unit.

4-5 onion storage with capacity of at least 5-6 MT can be promoted.

Purba Medinipur

A fish park is suggested to set up in the district.

Cold storage for Sea fish preservation

The fish park like Chakgaria may house 10-15 fish processing unit.

A high end cashew processing unit can be set up targeting premier customer of the nation

Purulia :

One honey processing plants can be set up in the district

South 24 Pgs.

The district is very close to Kolkata. Hence marketing of products would not be a problem.

A large scale Sunflower oil processing units can be set up in the district.

A big guava processing unit with state of the art machineries can be set up to manufacture Puree, Pulp, Jam and Jelly.

Scheme need to be designed to introduce mechanization in processing of molaso (date). It has high demand in the domestic market.

Cold storage for Sea fish preservation

Cold storage for sweet water fish preservation

Similarly automation is needed in manufacturing of Karanda. Around 15 such manufacturing units are found in Atghora of South 24 Parganas.

Uttar Dinajpur

The district ranked 2nd in terms of production of Maize. Maize is one of the major processable cereals. A significant concentration is found in Darjeeling, North Dinajpur, Jalpaiguri, Coochbehar. Hence a new Maize processing unit can be set up in the district.

Tulaipanji and Gobindo bhog have got the statutory clearance for export from Ministry of Commerce, GoI. Hence processing and packaging unit for these particular varieties can be set up.

Food Testing Laboratories in West Bengal

Name and Address	Contact persons (if any)
<p>SGS India Pvt. Ltd. Ecospace, Block – 3A, 2nd Floor, East Wing, Premises IIF/11, Action Area – II, Rajarhat, New Town Kolkata-700 160 T: 033 6650 6100 / 101 F: 033 2324 0745</p>	<p>Dr. Nimai Ghosh Laboratory In-Charge</p>
<p>Mitra S.K Private Limited Shrachi Centre (5th Floor), 74B, Acharya Jagdish Chandra Bose Road, Kolkata – 700016 Tel : 033-22172249,22177484/85 Fax – 033-22650008 E-mail – infor@mitrask.com, mitrask@satyam.net.in</p>	<p>Mr. Kartick Shah General Manager</p>
<p>West Bengal public Health Laboratory 2,Convent Road, Kolkata-700015 Tel : 033 23295974/23299225 Fax : 033 23297289 E-mail : publichealth@bsnl.in</p>	<p>Mr. Arup Duttagupta Food Analyst</p>
<p>Calcutta University Department of Chemical Technology 92,Acharya Prafulla Chandra Road, Kolkata- 700009 Tel : 033 23509937/ 8386/6387, Extn : 276 E-mail : mgchemtech@caluniv.ac.in</p>	<p>Dr. S. Ghosh Assistant Professor Dr. Mahua Ghosh Assistant Professor</p>
<p>Edward Food Research & Analysis Centre Limited (efrac) Subhas Nagar PO: Nilgunj Bazar Barasat ; Kolkata 700 121 Phone +91 33 7112 2800 Fax: +91 33 7112 2801 Email: efraclab@efrac.org</p>	<p>Mr. Arijit Bhowmick Assistant Manager</p>

Machinery Manufacturers

Sl.	Fruits and Vegetable	Machines
1	<p>B. Sen Barry & Co. 60/34, Ground Floor, New Rohtak Road, Karol Bagh, New Delhi-110005 Phone: 91-11-65702298,65702299,28720553,28726429; M: 09810083440/09810507870 Email:senbarry@gmail.com, rohit@bsenbarry.com</p>	<p>ALL MACHINERIES RELATED TO FRUIT AND VEGETABLE PROCESSING INDUSTRIES LIKE FRUIT / VEGETABLE WASHING MACHINES & PREPARATION EQUIPMENT FRUIT JUICE EXTRACTOR / PULP EXTRACTION EQUIPMENT COOKING MACHINES PASTEURIZATION EQUIPMENT STERILIZATION EQUIPMENT FRUIT / VEGETABLE SLICER / CUTTER / PEELER</p>
2	<p>East End Engineering Co. 173/1, Gopal Lal Thakur Road, Kolkata – 700108, Ph : 2577-6324/2577-3416</p>	
3	<p>Suan Scientific Instruments & Equipments P – 814 (Ground Floor), Block-A, Lake Town, Kolkata – 700089, Ph : 2534 2047. Mb:9903872341/9433263575</p>	
4	<p>Shiva Engineers T Block, Plot No. S-33, MIDC, Bhosari, Pune-411206 Ph- 020 27129610, M: 09822 499 586/0901102 1839,www.foodprocessingmachines.net</p>	
5	<p>John Bean Technologies India Pvt. Ltd. Pune Office :2 Bhuvaneshwar Housing Society, Pashan Road, Pune 411 008, India Phone: +91 (20) 6686 7100; Fax: +91 (20) 2589 3701</p>	

6	<p>Bajaj Process Pack Maschinen Pvt. Ltd 7/20-27, Jai Lakshmi Industrial Estate, Site IV, Sahibabad Ind. Area, Distt. Gazaibad 201010. U.P Ph. (0120)-463 9950 (50 lines) www.bajajmachines.com</p>	<p>VEGETABLE WASHING MACHINES, FRUIT WASHING MACHINES, VEGETABLE WASHING EQUIPMENT, FRUIT WASHING EQUIPMENT, VEGETABLE PREPARATION EQUIPMENT, FRUIT PREPARATION EQUIPMENT, INSPECTION CONVEYOR, PREPARATION CONVEYOR, CUTTING CONVEYOR, FRUIT WASHER, VEGETABLE WASHER, VEGETABLE ELEVATORS, EXTRACTION MACHINES, CUSTOM EXTRACTION MACHINES, ROOT VEGETABLE PEELER AND ROOT VEGETABLE WASHER</p>
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SI	Rice Milling	Machines
1	<p>Bühler (India) Private Limited 13-D, 12 D, 13 C and 13-B, KIADB Industrial Area, Attibele, Bangalore – 562107; Phone: +91 80 6777 0000, Fax: + 91 80 2289 00 01</p>	<p>MANUFACTURER OF PRE CLEANER, DESTONER, INDENTED CYLINDER, GRAVITY SEPARATOR, RICE MILLING MACHINERIES</p>
2	<p>SATAKE INDIA ENGINEERING PVT. LTD. 4th Floor, HB Twin Towers, Tower no.-1 A-2, 3,4, Netaji Subhash Place, Wazirpur District Center, New Delhi-110034 (India),E-mail: sales@satakeindia.com Tel: +91-11-47062626 (100 lines); Fax: +91-11-47062624;</p>	
3	<p>G.G.Dandekar Machine Works Ltd. Dandekarwadi, Bhiwandi-421302, Dist-Thane; Maharashtra, Fax-02522/229873 Ph-02522/229870</p>	
4	<p>Induss Food Products & Equipment's Ltd. 238/B, A.J.C. Bose Road, Kolkata – 700020. Ph: 033 2287-8503/9266/1962/2280 2743</p>	

5	Dulichand Technico Dhanshree Towers, Flat No.3D, 70, Diamond Harbour Road, Kolkata-700 023 Ph: 033-2449 6579	MANUFACTURERS AND SUPPLIERS OF PADDY PARBOILING AND PADDY DRIER PLANTS, M.S. PADDY SILOS, CENTRIFUGAL BLOWER, HEAT STEAM EXCHANGERS ALONG WITH ALL ITS EQUIPMENTS FOR RICE MILLS.
6	EMINENCE EQUIPMENTS PVT. LTD. Gat No. 343, Plot No. 27, Near Hindustan Petroleum Gas Plant, Village-Mahalunge, Tal. Khed, Dist. PUNE - 410 501, Phone : +91 2135 677100, Fax : +91 2135 677114 email:info@eminenceequipments.com/eminen ce@eth.net	MANUFACTURERS AND SUPPLIERS OF GRAIN DISCHARGER, GRAIN FEEDER, GRAIN MOVER, EN-MASS GRAIN FEEDER, GRAIN SILO LOADING & UNLOADING SYSTEMS, GRAIN FEED CONTROLLER, GRAIN DIVERTOR, GRAIN BAG LOADER, GRAIN BAG STACKER, GRAIN POUCH / BOX MOVER ETC.
7	MILLTEC Machinery Pvt. Ltd 51/A KIADB Industrial Area, Bommasandra, Bangalore -560 099 Tel: +91 80 28016666, +91-80-27831128, +91 9945648430, +91 9686683842 Toll Free No.1800 1028 431	TECHNOLOGY PROVIDING COMPANY FOR RICE MILLING, ROLLER FLOUR MILLING, MAIZE (CORN) MILLING AND PULSES PROCESSING PLANTS.
8	Fowler Westrup (India) Pvt. Ltd Plot No. 60-63, KIADB Industrial Area, IV Phase, Malur -563160, Kolar, Karnataka Email:fwl@fowlerwestrup.com Kolkata-033 2464 6586	MANUFACTURER OF PRE CLEANER, DESTONER, INDENTED CYLINDER, GRAVITY SEPARATOR, BUCKET ELEVATOR, COLOR SORTER, SILO ETC.

SI	Cake and Cookies	Machineries
1	Mechtech Designers & Engineers (P) Ltd. 19D, Dr. A.K. Pal Road, Behala,	HIGH SPEED SPIRAL KNEADERS MACHINERY,

	Kolkata – 700034. Phone : 91-33-2468 4024.	PLANETARY MIXER MACHINERY, BREAD MAKING PLANT, BISCUIT DROPPING MACHINE, WIRE CUTTING MACHINE, GAS OPERATED CONVENTION OVEN, FLOUR SIEVER / SHIFTER ETC.
2	Mutchall Engineering Pvt. Ltd. 140A & 140B, Kandlakoya Village, SaiGeeta Ashram Road, Medchal Mandal, Hyderabad, R.R. Dist 501 401, A.P., India. Ph: 08418 – 248622, 9391318551	
3	Aruna Engg. Works 59/1, AnathNath Deb Lane , Belgachia, Kolkata – 700 077: Ph- 033 2558 6113	
4	Bee Gee Traders & Engineers Pvt. Ltd Ichapur (Sealdanga), H.I.T. Road, Howrah – 711 104	

SI	Flour Mill	Machineries
1	Flourtech Engineers (P) Ltd. Plot No. 182, Sector-24, Faridabad-121005, Haryana Ph: 0129 4066182, 4043388, 4043399 www.flourtech.com	MANUFACTURER, EXPORTER, SUPPLIER AND SERVICE PROVIDER OF A WIDE RANGE OF COMPLETE PLANTS FOR FLOUR MILLS, RICE MILLS, DAL MILLS, MAIZE PLANTS, MAIZE GRIT PLANT & CORNFLAKES PLANTS.
2	Indopol Food Processing Machinery (P) Ltd. Complete Plants for Flour Mills, Rice Mills, Dal Mills Industrial Plot No.28, Sector-27 C, Faridabad-121 003, Haryana Phone: 0129 2276162, 2276161, 2275823, 2274756	DESTONER, GRAVITY SEPARATOR, HAMMER MILL, HORIZONTAL SIEVING MACHINE, CLASSIFIER SEPARATOR, ROLL GRINDING, BUCKET ELEVATOR ETC.
3	FABCON (INDIA) 89/1, Dharmotala Road, Salkia, Howrah-711106, Ph-2655-5354/6594, 2877-3361, Fax-26551248	
4	Mahashakti Engineering Works 94, Dharmotala Road, Ghosuri, Howrah-711107, Ph-2655-0673/8998(Fax), 2655-2512, Fax-	

	2655-1420/7526	
5	Buhler (India) Ltd. 13-D, KIADB Industrial Area, Attibele – 562 107, Bangalore – 560 034	

SI	Dairy Products	Machinery
1	IDMC Limited C/O National Dairy Development Board Block-DK, Sector-II, Salt Lake, Kolkata-700 091, Ph: 033 6529 0898, 033 2359 1884 M: 98309 07273/ 90510 93893, email: idmckolkata@rediffmail.com	MANUFACTURES AND SUPPLIERS OF MACHINERIES FOR BUTTER, PANNER, MARKET MILK, ICE CREAM & FROZEN DESSERT, MILK ASEPTIC PROCESSING & PACKAGING SYSTEM , MILK SILOS TEC.
2	Unicorn Industries Survey No:131, Kandlakoi Village, MedchalMandal, R.R.Dist., Andhra Pradesh Tel: +91 (08418) 222837 / 222890 / 222891	EQUIPMENT FOR MANUFACTURING BUTTER, GHEE, CHEESE, ICE-CREAM AND OTHER DAIRY PRODUCTS
3	PWS Engineers Private Limited Panchal Estate , Near Madhubhan Resort, Anand - Sojitra Road, ANAND – 388 001, Gujarat Ph-02692 261424/261849/261948	CURD & YOGURT FILLING & SEALING MACHINE (UPTO 2400 CUP/HR.), LINEAR CURD FILLING & SEALING MACHINE (UP TO 6000 CUP/HR.) AND BLISTER PACKING MACHINE (SUITABLE FOR DIFFERENT WIDTH SIZE OF PP/PS SHEETS TO THERMO FORM DIFFERENT SIZE AND SHAPES OF CONTAINERS AND FILLS WITH JAM, CHEESE, CURD, CREAM, MARGARINE, BUTTER AND HEAT SEAL WITH THE TOP WITH FOIL) AND PORTION PACKING MACHINE
4	Jaya Industries; 543, Jessore Road, Kolkata – 700028, Ph: 2551-3568, Mobile: 9831021968/ 9231694285	GHEE, PANEER, BUTTER MAKING MACHINERIES
5.	Dairy Tech India EI-31/5, J- Block, M. I. D. C., Bhosari, Pune - 411026, Maharashtra, India, M: 08447 530149	GHEE, PANEER, BUTTER MAKING MACHINERIES

SI	Biscuits	Machines/Services
1	Hazra Industries NH-6, Vill+PO-Tentulkhali, Pakuria, Howrah-711 409 Ph:033 2653 0084; Telefax:033 2653 5241 Email:hazra.industries2011@gmail.com	Manufacturers and suppliers of a. Sugar Grinder Machine, b. Biscuit grinder machine, c. Screw conveyor, d. Biscuits shorting machine
2	Ess Pee Engineers 137, BRB Bose Road, 2nd Floor, Burrabazar, Kolkata - 700 001. Ph: +91 - 9830005555 / 9007105555, 033 – 22433932, 64580030: email:pkn54@yahoo.in	Biscuit baking tunnel oven, cake baking tunnel oven, rusk baking tunnel oven etc.
3	BBL Foods (P) Ltd. Santoshnagar 'X' Road, Hyderabad - 500 059 A.P. (India) Ph:098480 50607, 040 2453 0680, email:lakhbir.mutchall@gmail.com	Automatic Complete Biscuit lines, Including Packing Machines. b) Automatic Cookies line on steel band oven. Depositors and Wire cutters for Tray ovens, Rotary rack ovens, Bakery machines, Encrusted cookies. c) Automatic Cake lines, Swiss roll, Sandwich cake. etc
4	UNIWRAP SYSTEMS PVT.LTD. Plot No. 383, Manjusar G.I.D.C. Estate,Tal. Savli, Dist. Vadodara, 391775, Gujarat Contact: +91 9377660650 / 9725001253 /91 9824069093, +91 9925014646, Tele- fax: +91-2667264130	Flow wrap machine, Slug Wrap machine, secondary pack machine, canteen pack machine etc.
5	Logic Automation Lokmanya Nagar, No. 4, ShivajiVidyalaya Road, P.O. : J.K.Gram Thane, Pin : 400606 Ph: +912225883688, Contact: +919223242803, +919967542803/+919820646393), email:sagar@logicaautomation.net, logic_automation@yahoo.co.in	Manufacturers and suppliers of Creamer, pneumatic pumps, sugar weighing tank, cyclone separator, bag filter, gyro sifter, sugar grinder , piping etc.
6	Rajni Combustion Pvt. Ltd. Regd. Office:31, Near Tollygunge, Kolkata- 700 093 Tel./Fax-033 2461 2711, email:Kolkata@rajniglobal.com	Suppliers of combustion system for bakery ovens.

7	Shakti Engineering Works Ichapur,Kamardanga (Shitalatala) Santragachi,Howrah-711104, Ph-2677-3480/0395, Mob- 9830149853/9830219568	Dough Trolley Lifter Machine
8	Bee Gee Traders &Engg. Pvt. Ltd Ichapur (Sealdanga), HIT Road, Howrah- 711 104	All types of biscuit making machineries
9	Delight Engineering Works Lane No.8, Asalatpura, Moradabad U.P - 244001, M: 09837110522, Phone- 0591 2498398	All types of biscuit making machineries

SI	Rice Bran Oil and Other Edible Oils	Machineries/services
1	Sundek Process Engineers (P) Ltd Contact: No. 201 & 202, Omex Chambers, Rajarshree Shahu Maharaj Marg, Andheri East, Mumbai – 400069 Ph: 08447569975/09870271007/09821499912/022 26820336/022 26846793	Engaged in layout designing to Fabrication, Onsite Commissioning and Installation of Solvent Extraction Plants, Vegetable Oil Refinery plants Oil Mills and Oilseed Processing Plant.
2	Agrowchem Engineers Special Plot No. 18, KSSIDC Industrial Estate, 2nd Phase, Antharasanhalli, Tumkur, Karnatak-572 106 Contact: M:09448371311/0944 8471792 Email:chemech1984@gmail.com	Agrowchem Engineers is a leading turnkey supplier of modern continuous solvent extraction plants since 1996. They have executed projects for Rice bran oils, other edible oils , Oleoresins etc
3.	Kumar Metal Industries (P) Ltd Plot No.7, Mira Co-op. Industrial Estate, Mira Road, Thane-401164 Ph:022 2845 9100/2845 8300, www.kumatmetal.com	Expertise in oil mill, solvent extraction and edible oil refining plant
4	Veendeep Oiltek Exports Plot No.A-67, MIDCS, Taloja, Navi Mumbai- 410208 Call:08376808221, email: info@veendeep.com	Manufacturers of solvent extraction plant, refinery plant, Oil Milling plant, hydrogenation plant etc

5	Synergy Exim Pvt. Ltd. Office No. 26/28 & 30, 4th Floor, Galleria Building, Near Karve Statue, Karve Road, Kothrud, Pune - 411 038. INDIA. Tel. : +91-20-65008905, 25454404. Fax : +91-20-25455640. Email : info@seplindia.co.in Website : www.seplindia.co.in	Technology provider and Plant & Machinery Supplier for Edible Oil refinery, Cotton Seed & Soya Preparation Plant, Solvent Extraction Plant, and Physical Refineries.
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SI	Potato Chips	Machines/Services
1	Wintech Taparia Ltd. 25/1, Yeshwant Niwas Road, Indore- 452003, Madhya Pradesh Ph-0731- 2433950/2534586	Machineries of Potato chips line like Cleaning / Destoning, Peeling, Inspection, Blanching, Cooking, Cooling etc.
2	Dynamech Engineers 214, Palsikar Colony, Indore, Madhya Pradesh Ph-91-731-2364890/2761418	Potato Chips Plant Potato Peeler Potato Slicer Centrifugal Dryer
3	Flavourite Foods & Services (P) Ltd. 208, Manas Bhavan, 11, RNT Marg, Indore- 452008 Madhya Pradesh Ph- 0731/2527644/5046509	Potato peeler, Slice washer, Blancher/Cooker, Fryer, Flavor drum/application machines
4	Blaze Machinery Gala No : 3, Dixit Compound, Navapada Lane, Behind Ameer Steel, S. V. Road, Ajit Glass, Jogeshwari West, Mumbai - 400102, Maharashtra Ph:+(91)-(22)- 32466341/26355366/26354880/267831 33 www.potatochipsmakingmachine.com	Potato Chips Making Machine, Salted Snacks Making plant, Banana Chips Making Plant
5	ABC Agro & Food Machine (India) Pvt. Ltd 2 (284), Dr. Ambedkar Road, Velandipalayam, Coimbatore-641025, Tamilnadu, India Ph: (0422)-2442380, Fax-(0422)- 2444429 email: nataraj@abcmachines.com	Potato chips making machines
5	Florigo International B.V, Netherlands www.florigo-international.com Agents in India: Kanchan Metals Pvt. Ltd	Fryers for snacks, potato based specialties (Potato French Fries) & namkeens.

<p>19G, Everest House, 46C , Jawaharlal Nehru Road, Kolkata 700 071, West Bengal , India Tel: +91 33 40714169, Fax: +91 33 40714083 Email: raghav@snackfoodmachines.com Mob: +91 9831744709, www.snackfoodmachines.com</p>	
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Sl	Noodles and Spaghetti	Machines/Services
1	<p>Guru Nanak Engineering Works D-107, Sector-7, Noida, UP Ph- 0120 2423674/242 3675, M: 09810 378448/ 09811809357, www.gurunkew.com</p>	Soya Nuggets, Snacks food, Sewaiya, Roaster, Dryer, oven, conveyor etc.
2	<p>Suan Scientific Instruments & Equipments P – 814 (Ground Floor), Block-A , Lake Town, Kolkata – 700089, Ph : 2534 2047. Mb:9903872341/9433263575</p>	
3.	<p>Fuji Manufacturing Co., Ltd. 15 Shinozuka, Fujioka, Gunma 375-0017 JAPAN TEL.(+81)274-22-2147 FAX.(+81)274-24-0074 Agents in India: Kanchan Metals Pvt. Ltd 19G, Everest House, 46C , Jawaharlal Nehru Road, Kolkata 700 071, West Bengal , India Tel: +91 33 40714169, Fax: +91 33 40714083 Email: raghav@snackfoodmachines.com Mob: +91 9831744709, www.snackfoodmachines.com</p>	Instant Noodles Machine Manufacturers
4	<p>Isolteck Cusinato Srl , Italy www.isolteck.com, Agents in India: Kanchan Metals Pvt. Ltd</p>	Processing lines for snack pellets & pasta
5	<p>PPM Technologies, UK www.ppmtech.com C/O Kanchan Metals Pvt. Ltd</p>	Seasoning machineries for snacks food

Food Flavors and Food Chemicals Manufacturers / Suppliers

Sl No	List of Food Flavors and Food Chemicals	Food Flavors and Food Chemicals
1	International Flavours & Fragrances India Ltd., (IFF) "Premlata", 39, Shekspear Sarani, Kolkata – 700017 Phone: 2283 6435.	Manufacturers of food flavors, food colors
2	Global Chemicals 130/131, Radha Bazar Street, Kolkata – 700001, Phone: 2225 6933.	Supplier of food flavors, food colors, food preservatives
3	Calcutta Chem Sales Corporation 33-B, Ezra Street, Kolkata – 700001 Phone: 2234 1066	Supplier of food flavors, food colors, food preservatives

Food Processing Training Centre (FPTC)

Name of Institute/Centre	Office Address	Contact Information
Akshaynagar Pallisri Sangha	Sahebbagan, Samabaya Pally, Bally, Dist.-Howrah, Pin - 711205	Anil Giri 033-26715045
Guru Nanak Institute of Technology	157/F, Nilgung Road, Panihati, kolkata-700 014	Annapurna das 033 2563 7929
Shree Ramakrishna Prema Behar	Vill- Hoydarbellia, PO- Prithiba, Habra, Dist. North 24 Parganas	Swami Dhrubatmananda 03216 213 841
Tajpur Ma Saradamoyee Nari Kalyan Samity	PO - Gopalchak, Dist. Purba Medinipur	Sanghamitra Poirya9434018845 / 9475873767
Purulia District Agragami Mahila O Sisu Mangal Samiti	PO- Jargo, Dist. Purulia, Pin-723212	Goutam Mandal 03252 286231/286044

Degree / Diploma Colleges teaching Food Processing and Food Processing Technology in West Bengal

SI	COLLEGE NAME	COLLEGE ADDRESS	NAME OF COURSE	INTAKE
1	Indian Institute of Technology Kharagpur	Indian Institute of Technology Kharagpur, Kharagpur – 721302 Tel : +91-3222-255221 FAX : +91-3222-255303	B.Tech. in Agricultural & Food Engineering (4 Years)	
			M.Tech. in Agricultural & Food Engineering (2 Years)	
2	Jadavpur University	188, Raja S.C. Mallick Rd, Kolkata - 700032. Tel: (033) 2414-6666	B.E. in Food Technology (4 years)	36
3	Haldia Institute of Technology	Icre Complex; HIT Campus, Haldia, Purba Medinipur, 721657 Tel: (03224) 252900	B.Tech. in Food Technology (4 years)	60
4	Techno India	EM-4/1, Sector-V, Salt Lake, Kolkata-700091 Tel: (033) 2357-5683/5685	B.Tech. in Food Technology (4 years)	60
5	Gurunanak Institute of Technology	157/F, Nilgunj Road, Panihati, Sodepur, Kolkata-700114 Tel: (033) 2563-7929	B.Tech. in Food Technology (4 years)	60
6	Hemnalini Memorial College Of Engineering	Gate No. 7(Near BSF Camp), Balindi, Haringhata - 741246 Tel: 91 8017656252	B.Tech. in Food Technology (4 years)	63
7	School of Community Science & Technology, Bengal Engineering & Science University (BESU)	Bengal Engineering and Science University, Shibpur. Prof. A.K.Seal Hall, P.O.-B.Garden, Howrah - 711103 Ph. No. : +91 (033) 2668 4561 to 63, 2668 0680	M.SC in Food Processing & Nutrition Science (2 years)	25
8	APC Roy Polytechnic	Jadabpur, Kolkata-7000032 033 - 2414 - 6241	Diploma in Food Processing Technology (3 years)	30

SI	COLLEGE NAME	COLLEGE ADDRESS	NAME OF COURSE	INTAKE
9	Falakata Polytechnic	P.O- Falakata, Dist - Jalpaiguri, PIN- 735211 Ph. - 3563260642	Diploma in Food Processing Technology (3 years)	60
10	Shaikhpara A.R. Polytechnic and Vocational Training Institute	Raninagar, Post Office: Raninagar, District: Murshidabad, West Bengal Ph. No.: +91 3481 242 167	Diploma in Food Processing Technology (3 years)	30

How to set up a Food processing Industry with necessary clearances.

1. Conception of project/project selection (District wise infrastructure, raw material availability and other information is available in our website - www.wbfpinhgov.in).

Necessary clearance	Under Rules/Act	Contact office
NIL	NIL	NIL

2. Deciding Forms of Business organization.

Necessary clearance	Under Rules/Act	Contact office
Applied to Registrar of Societies & Company for formation of Partnership deed and Memorandum & Article of Association respectively.	Under companies Act 1956(2013)/ W.B. Co-Op. Societies Registration Rules 2011/L.L.P. Act,2012/ Partnership Act, 1932	P-15,India Exchange place Extension, Kolkata – 700073.

3. Selection of location of the project.

Necessary clearance	Under Rules/Act	Contact office
Applied for land conversion.	WBLR Act 4C 1955	Office of the District Land and Land Reforms Officer / Sub Divisional Land and Land Reforms Officer.

4. Arranging finance.

Necessary clearance	Under Rules/Act	Contact office
Application for term Loan	NIL	Banks/Financial Institution/WBFC

5. Preparation of project with the help of right technology, machinery and also availability of raw materials.

Necessary clearance	Under Rules/Act	Contact office
1. E.M-1/IEM * as on date E.M.-I has been withdrawn	MSME Act 2006/For IEM Deptt. Of Industrial Policy & Promotion, GoI/Industrial Development (Regulation) Act 1951.	For E.M. go to G.M./D.I.C.in the district or go to www.ebiz.gov.in for IEM online filling
2. Clearance from local authority	Under Municipal / Panchayat Act etc.	Local Municipality /Municipal Corporation/Gram Panchayat
3. Clearance from pollution Control Board (consent to establish).	The Environment (Protection) Act 1986	G.M./D.I.C. in the district or W.B.P.C.B. Paribesh Bhaban;3 rd floor; 10A, Block LA,Sector- III; SaltLake, Kol-98.
4. Approval building plan from local authority	WB Panchayat Act 1973 under section 23/Rule 11 of WB Municipal (Building) Rules 2007	Local Municipality /Municipal Corporation/Gram Panchayat

6. Approval of project from financial institutions/Government Organisation.

Necessary clearance	Under Rules/Act	Contact office
Clearance from financial institution for term loan or working capital loan.	NIL	Banks/Financial Institution/WBFC

7. Unit development/Implementation of project:

Necessary clearance	Under Rules/Act	Contact office
1. Clearance for food safety license (after installation of machineries).	FSS Act 2006	For State licence- Deputy CMOH-II & for Central licence –FSSAI OFFICE, Benfish Tower, Sector v; Salt Lake; Kolkata 91.
2. Clearance from pollution Control Board (consent to operate).	The Water (Prevention and Control of pollution) Act 1974 & The Air (Prevention and Pollution) Act 1981.)/ Noise pollution rules,2000	G.M./D.I.C. in the district or W.B.P.C.B. Paribesh Bhaban; 3rd floor; 10A, Block LA, Sector-III; Salt Lake, Kol-98.

3. Factory registration certificate.	Section 6 & 7 read with Rules 4 to 12 of W.B. Factories Rules 1958.	Directorate of Factories; N.S. Building, 8 th floor; 1 K.S. Roy Road; Kolkata-700001.
4. Clearance from SWID(permission for using ground water for commercial purpose)	W.B. Ground Water Resource (Management, Control & Regulation) Act 2005.	District office of SWID/ Head office at 4 th Floor, Vikash Bhawan, South Block, Kolkata – 700091.
5. Boiler Registration	Indian Boilers Act 1923/ Regulation 1950 (Regulation 385 & 583)/W.B. Boiler rules 1963	Directorate of Boiler, New Secretariat Buildings 1 K.S. Roy Road; Kolkata 1.
6. Fire Licence	Under Section 15 of W.B. Fire Service Act 1950.	The Director General; W.B. Fire Service, 13 D Mirza Galib Street; Kolkata 16.
7. Connection of power	Electricity (Amendment) Act, 2003& 2007	WBSEDCL/CESC

8. Commencement of production

Necessary clearance	Under Rules/Act	Contact office
1.Udyog Aadhar Memorandum/IEM Part B	MSME Act 2006/ Industrial Development (Regulation) Act 1951 For IEM Deptt. Of Industrial Policy & Promotion, GoI	Online application for both
2.VAT registration	W.B. VAT Act 2003	Commissioner of Sales Tax, 14 Belaghata Road; Kolkata-15.
3. Trade licence from local authority.	Under rule 81 of WB Municipal (Finance & Accounting) Rules 1999/Act 223-Section 27-2007	Respective Gram Panchayat/Municipality.
4. Quality certification (if any).	FSS Act 2006/BIS Standard Act 1986.	For State licence- Deputy CMOH-II & for Central licence, FSSAI OFFICE, Benfish Tower, Sector v; Salt Lake; Kolkata 91/ BIS,1/14 CIT Scheme, Vii M VIP Road, Kankur Gachi, Kol-54.

N.B. ALL CLEARANCES WILL BE AVAILABLE ON THE SINGLE APPLICATION GATEWAY i.e. AT THE MSME FACILITATION CENTRE IN EVERY DISTRICT INDUSTRIES CENTRE UNDER MSME&T DEPARTMENT FOR MSME UNIT (CONNECTING WEBSITE IS www.myenterprisewb.in AND FOR LARGE SCALE AT SILPA SATHI (SINGLE WINDOW CELL) AT WBIDC (CONNECTING WEBSITE IS www.wbidc.com/singlewindow).

Projects at a glance (sector wise)

1. Project: **Bakery & Confectionery**
2. Products: Bread, Cake
3. Suggested location: Burdwan, Howrah, Malda, Murshidabad, Paschim Medinipur, Jalpaiguri
4. Availability/source of raw materials:
 - a. State
 - b. All over India
 - c. Import –Nil
5. Capacity: 600 MT/annum
6. Investment: Rs. 2.0 to 2.5 crores
7. Land Requirement: 0.5 to 1.0 acre
8. Investment in Plant & Machineries: Rs.2.0 to 2.50 crores
9. Machinery manufacturers/suppliers:
Empire Products, Ludhiana
Goodlife Technologies (P) Ltd, Noida
Pritul Machines, U.P
10. Technical consultants: Yes:
Mr. S B Mukherjee-(M: 80178 57782),
Mr. Joy Ganguly- (M: 98303 85112)
11. Necessary clearances/licenses: Pollution NOC, FSSAI, EM (UdyogAadahr) etc.
12. Units in West Bengal: Biskfarm, Anmol Biscuits, Raja Biscuits, Terai Foods

1. Project: **Dal Mill**
2. Products: Red lentil (Masur Dal), Green lentil (Moong Dal), Matar Dal etc.
3. Suggested location: In each district of the State
4. Availability/source of raw materials:
 - a. State [Malda, Murshidabad]
 - b. All India (MP, UP, Maharashtra, Rajasthan & AP)
 - c. Import [Red & Green lentil- Canada, Australia, Uzbekistan, Mozambique, Indonesia, Mayanmar etc; Matar Dal- Nepal]
5. Capacity:10,000 MTPA
6. Investment:Rs. 2.5 to 3.0 crores
7. Land Requirement: 0.5 to 1.0 acre
8. Investment in Plant & Machineries: Rs. 1.0 to 1.5 crores
9. Machinery manufacturers/suppliers: Kissan Agro Industries, New Delhi
S. K Engineering & Allied Works, Bahraich, UP
Jas Enterprise, Ahmedabad, Gujarat
Padsons Industries (P) Ltd
Vashist Food Associates
Machineries can also be fabricated using locally available materials.
10. Technical consultant: Yes: Vashist Food Associates, Bahadurgharh, Haryana (Contact: +91-1276-267654, 268405, 268980, M: +91-9811113654)
11. Necessary clearances/licenses: Pollution NOC, FSSAI, EM (UdyogAdahr)
12. Units in West Bengal: Suryodaya Edibles (India) Pvt. Ltd, Prosperity Vanijjya (P) Ltd. & etc.

1. Project: **Dairy**
2. Products: Pasteurized milk, Butter, Paneer, Lassi
3. Suggested location: Murshidabad, Burdwan, North 24 Parganas, Bankura
4. Availability/source of raw materials:
 - a. State- Murshidabad, Burdwan, North 24 Parganas, Bankura, Paschim Medinipur
 - b. All over India- U.P, Bihar, Gujarat, Punjab
 - c. Import –Nil
5. Capacity: 50,000 Ltrs/day
6. Investment: Rs. 5 to 6 crores
7. Land Requirement: 2.0 to 3.0 acre
8. Investment in Plant & Machineries: Rs. 4.0 to 4.5 crores
9. Machinery manufacturers/suppliers:

IDMC, Gujarat

Unicorn Industries, Secunderabad

Dairy Tech India, Pune
10. Technical consultants: Yes Mr.P.P.Bhattacharya-9231694285 (Jaya Industries, Kolkata)
11. Necessary clearances/licenses: Pollution NOC, FSSAI, EM (Udyog Aadahr) etc.
12. Units in West Bengal: Metro Dairy, Red Cow Dairy, NRS Agro, West Bengal Sate Co-operative Dairy and many more

1. Project: **Rice Mill**
2. Products: Rice, Rice bran
3. Suggested location: Bankura, Paschim Medinipur, Hooghly, Burdwan, Malda
4. Availability/source of raw materials:
 - a. State [Burdwan, Bankura, Paschim Medinipur, Murshidabad]
 - b. All India (Bihar, Jharkhand, Chattisgarh, Odisha)
 - c. Import - Nil
5. Capacity: 6 MT/hr
6. Investment: Rs. 7.0 to 8.0 crores
7. Land Requirement: 1.0 to 2.0 acre
8. Investment in Plant & Machineries: Rs.4.0 to 5.0 crores
9. Machinery manufacturers/suppliers:

Bühler (India) Private Limited
SATAKE INDIA ENGINEERING PVT.LTD.
G.G.Dandekar Machine Works Ltd
Induss Food Products & Equipment's Ltd.
MILLTEC Machinery Pvt. Ltd
10. Technical consultants: Ankur Machinery, Burdwan (Ph: 0342-2647579/
M: 9434062273)

Dulichand Technico, Kolkata (Ph: 033 2449 6579)
11. Necessary clearances/licenses: Pollution NOC, FSSAI, EM (Udyog Aadahr) etc.
12. Units in West Bengal: Shiv Industries (Food) Pvt. Ltd, Majumder Agro Industries (P) Ltd. , Bhadreshwar Rice Mill and many more

1. Project: **Rice Bran Oil**
2. Products: Rice Bran Oil (Crude), De oiled Rice Bran Cake
3. Suggested location: Burdwan, Hooghly, Malda, Murshidabad, Paschim Medinipur, Birbhum
4. Availability/source of raw materials:
 - a. State of West Bengal
 - b. All over India
 - c. Import –Bangladesh
5. Capacity: 50000 MT/annum
6. Investment: Rs. 7.0 to 8.0 crores
7. Land Requirement: 1.5 to 2.0 acre
8. Investment in Plant & Machineries: Rs.4.0 to 5.0 crores
9. Machinery manufacturers/suppliers:

Agrowchem Engineers

Sundek Process Engineers (P) Ltd

Kumar Metal Industries (P) Ltd
10. Technical consultants: Yes:

Mr. M G Mukundan, M:0944 8471792,

Mr. Rabindranathan, M: 0924 6485362
11. Necessary clearances/licenses: Pollution NOC, FSSAI, EM (UdyogAadahr), Fire and Hazards License etc.
12. Units in West Bengal: Kalyani Solvex (P) Ltd, Sukumar Solvents (P) Ltd, Bardhaman Agro (P) Ltd. etc.

1. Project: **Fish Processing**
2. Products: Frozen Shrimp and other Marine Fish
3. Suggested location: North 24 Parganas, Purba Medinipur, South 24 Parganas, Howrah
4. Availability/source of raw materials:
 - a. North 24 Parganas, Purba Medinipur, South 24 Parganas districts of the State of West Bengal
 - b. Import –Nil
5. Capacity: 7000 MT/annum
6. Investment: Rs. 8.0 to 10.0 crores
7. Land Requirement: 1.0 to 1.5 acre
8. Investment in Plant & Machineries: Rs.4.0 to 5.0 crores
9. Machinery manufacturers/suppliers:

Sri Sai Tech Refrigeration Pvt. Ltd
Kolkata Refrigeration
Patils' Industry & Refrigeration
Rinac India
10. Technical consultants: Yes:

Mr. Ravi Gautam (M: 09880240819)
Mr. Ujjal Nag (M: 98314 92337)
11. Necessary clearances/licenses: Pollution NOC, FSSAI, EM (UdyogAadahr) etc.
12. Units in West Bengal: S.A Exports, Essex Marine (P) Ltd, Digha Sea Food (P) Ltd, KNC Agro (P) Ltd etc.

1. Project: **Flour Mill**
2. Products: Atta, Maida, Dalia etc.
3. Suggested location: Hooghly, Burdwan, Howrah, Malda, Uttar Dianjpur, Jalpaiguri
4. Availability/source of raw materials:
 - a. State(PDS)
 - b. UP, Bihar, Punjab, Haryana
 - c. Import –Australia, Ukraine, Russia
5. Capacity: 48000 MT/annum
6. Investment: Rs. 10 to 12 crores
7. Land Requirement: 2.0 to 3.0 acre
8. Investment in Plant & Machineries: Rs.4.50 to 5.0 crores
9. Machinery manufacturers/suppliers:
Flourtech Engineers, Faridabad
Indopol Food Processing, Faridabad
Fabcon (India), Howrah
10. Technical consultants: Yes,
Bansal Flour Mill Engineers, Sonapat, Haryana(Phone: 011 27694469).
Dr.-Ing. N.K. Gupta Technical Consultants Pvt. Ltd. (Phone:+91 11 2984 0557,Mobile: +91 98100 21320)
11. Necessary clearances/licenses: Pollution NOC, FSSAI, EM (UdyogAadahr) etc.
12. Units in West Bengal: Ankit Flour Mill, Sakambari Flour Mill, Gita Devi Flour Mills and many more.

1. Project: **Potato Flakes**
2. Products: Potato flakes/powder
3. Suggested location: Hooghly, Burdwan, Howrah, Paschim Medinipur, Jalpaiguri
4. Availability/source of raw materials:
 - a. State- Hooghly, Burdwan, Paschim Medinipur
 - b. All over India- U.P, Bihar, Andhra Pradesh, Gujarat, Punjab
 - c. Import –Nil
5. Capacity: 6000 MT/annum
6. Investment: Rs. 12 to 15 crores
7. Land Requirement: 2.0 to 3.0 acre
8. Investment in Plant & Machineries: Rs. 7.0 to 8.0 crores
9. Machinery manufacturers/suppliers:

Kiremko B.V; Nederland

Bonanza Infrastructure (P) Ltd.; Mumbai

Wintech Taparia Ltd., Pune
10. Technical consultants: Yes: Project Plus, Kolkata (M: 8420021789/8697914603)
11. Necessary clearances/licenses: Pollution NOC, FSSAI, EM (UdyogAadahr) etc.
12. Units in West Bengal: Crown Flakes (P) Ltd.

Important Departmental links:-

Department	Website link
Ministry of Food Processing Industries, Government of India	http://www.mofpi.nic.in
West Bengal Agri-marketing Department	http://wbagrmarketingboard.gov.in
West Bengal Agriculture Department	http://www.banglarkrishi.gov.in
	http://www.agricoop.nic.in
	http://www.wbagrisnet.gov.in
Central Food Technological Research Institute	http://www.cftri.com
Association of Food Scientists and Technologist(India)	http://www.afsti.in
APEDA - Agricultural and Processed Products Export Development Authority	http://www.apeda.com
MPEDA - Marine Products Export Development Authority	http://www.mpeda.com
National Horticulture Mission	http://www.nhm.nic.in/
National Horticulture Board	http://www.nhb.gov.in
Micro, Small and Medium Enterprises	http://www.dcsmse.gov.in
	http://www.msme.gov.in
	http://www.mssewb.org
Food Safety and Standards authority of India (FSSAI)	http://www.fssai.gov.in

[Note : The information is accurate at the time of doing to press on 20.05.2016. It will be updated from time to time. The Government of West Bengal in the Food Processing Industries and Horticulture Department in no way advocates the custom of any of the private manufacturers given here. They have been included only for information.]

FSSAI LICENSE/REGISTRATION (FOOD SAFETY LICENSE)

The Food Safety and Standards Authority of India Established under Food Safety and Standards Act, 2006 - for laying down science based standards for articles of food to regulate their manufacture, storage, distribution, sale, and import to ensure availability of safe and wholesome food for human consumption. To consolidate the laws relating to food, The Food Safety and Standards Authority of India notified various Food Safety and Standards Regulations, 2011 on 5th August 2011.

Conditions of License: All Food Business Operators shall ensure that the following conditions are complied with at all times during the course of its food business. Food Business Operators shall:

1. Display a true copy of the license granted in Form C shall at all times at a prominent place in the premises
2. Give necessary access to licensing authorities or their authorised personnel to the premises
3. Inform Authorities about any change or modifications in activities

Who Require License:

[See Regulation 2.1.2, Regulation 2.1.3 and Regulation 2.1.7]

License / Renewal of license under FSSA, 2006 for

- Manufacturing/Processing including sorting, grading etc.
- Packaging
- Relabeling (by third party under own packing and labeling)
- Storage/Warehouse/Cold Storage
- Retail Trade
- Wholesale Trade
- Distributor/Supplier/Transporter of food
- Milk collection/chilling
- Slaughter House
- Solvent extracting unit
- Solvent extracting and oil refining plant
- Importing
- Catering , Dhaba or any other food vending establishment
- Club /canteen

LICENSE ISSUING AUTHORITY:

For Central License to apply at:

FSSAI Office, BENFISH TOWER, GN Block 31, Sector-V, Salt Lake, Kolkata – 700091.

For State License to apply at:

Deputy Chief Medical officer of Health – II of the District except Kolkata where application to be addressed to the Food Safety and Sanitation Cell, Health Department, 5 S. N. Banerjee road, Kolkata - 700013.

GUIDELINES AND MANUALS RELATED TO FSSAI:

1. FSSAI WEBSITE: <http://www.fssai.gov.in>
2. FOOD SAFETY AND STANDARDS (LICENSING AND REGISTRATION OF FOOD BUSINESSES), REGULATIONS 2011
3. FOOD SAFETY AND STANDARDS (PACKAGING AND LABELLING) REGULATIONS, 2011
4. FOOD SAFETY AND STANDARDS (FOOD PRODUCTS STANDARDS AND FOOD ADDITIVES) REGULATIONS, 2011 part I and II
5. FOOD SAFETY AND STANDARDS (PROHIBITION AND RESTRICTIONS ON SALES) REGULATIONS, 2011
6. FOOD SAFETY AND STANDARDS (CONTAMINANTS, TOXINS AND RESIDUES) REGULATIONS, 2011
7. FOOD SAFETY AND STANDARDS (LABORATORY AND SAMPLE ANALYSIS) REGULATIONS, 2011

Contact Information:-

Sri B.P.Gopalika, I.A.S. Principal Secretary, FPI&H Department	2337-4244 (P) 2337-2922(F)
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Sri Sourav Narayan Mondal MIS-In-Charge	9477169036(M)
Sri Prabir Raha IDO (H.Q), FPI	9434614015(M)
Sri Suninda Sundar Poria FPDO (H.Q), Hooghly, Burdwan, Purulia and Bankura	9433581254(M)
Sri Arunavo Baul FPDO (Malda, Dakshin Dinajpur and Birbhum)	9851336103(M)
Smt. Kaveri Rit FPDO (Howrah, Purba Medinipur ,Paschim Medinipur, South 24 Pgs.)	9830799698(M)
Sri Misbahul Islam FPDO (Darjeeling and Siliguri)	9832818954(M)
Sri Pradip Kanti Roy FPDO (Jalpaiguri, Alipurduar and Coochbehar)	9874270443(M)
Sri Sukhendu Jana FPDO (Murshidabad, Nadia and North 24 Pgs.)	9903830620(M)