Integrated Pack House	
Sector of the Project	**Horticulture**
Project Contours (100 words)	• Most of the fruits and vegetables being perishable in nature, Integrated Pack House facilities for sorting, grading, packing and marketing need to be developed at Bhubaneswar for ensuring remunerative price to the farmers. • The centre will also act as a preliminary hi tech facility and storage centre with Controlled Atmosphere based multi chambered cold storage for promotion of export oriented vegetables and fruits. • The procurement of the horticultural produce through the FPO members from different parts of Odisha. It is expected that this facility shall undertake marketing of 15-20 M.T.s of vegetables and fruits per day during the initial 4-6 months and gradually it will increase up to 25-40 MT per day. • The Integrated Pack House facility has to be developed through PPP mode.
Total Land Area Required for Project	0.20 ha
Project Location	Around Bhubaneswar
Approximate Project Cost	Rs. 1. 50 Crore
Project Execution Time Frame	One year
Employment Generation	10 nos direct and 100 nos indirect
Investment Opportunities (100 words)	• Procurement and supply of fruits and vegetables from different parts of the State • Packaging and Marketing • Scope for export of produce • Transportation business
Nodal Agency	Directorate of Horticulture, Odisha / APICOL

Ripening Chamber (100 MT capacity)	
Sector of the Project	**Horticulture**
Project Contours (100 words)	• The ripening chamber units have flexibility for ripening of multi-commodities like banana, mango & papaya as per seasonality due to its inherent advantage of precise control mechanism of temperature, humidity &induction of ethylene. • Due to absence of mechanical ripening chambers, consumers are forced to avail fruits ripened through carbides. • Climacteric fruits like mangoes, bananas & Papayas are normally ripened to regulate humidity and temperature along with use of ethylene (natural hormone for ripening) for hygienic ripening on demand to meet market requirements. • Ripening chambers can also be used for non- climacteric fruits like par de-greening of citrus fruits. • The shelf life of ripened produce is minimal & thus Ripening chambers need to be established by private entrepreneurs closed to the consumption centres.
Total Land Area Required for Project	0.5 Acre for 100 MT capacity ripening unit
Project Location	Khurdha, Cuttack, Bolangir, Balasore, Angul, Berhampur, Parlakhemundi, Keonjhar, Bhawanipatna, Koraput, Rayagada, Kandhamal, Baripada, Sambalpur, Rourkela
Approximate Project Cost	1.00 crore for 100 MT
Project Execution Time Frame	12 Months
Employment Generation	Approx. 10-20 per location
Investment Opportunities (100 words)	• Odisha produces approx. 8.00 lakh MT of mango & 4.7 lakh MT of banana annually. • Creating of infrastructure, operation & maintenance through private entrepreneurship. • Capital Investment subsidy @ 35 % in general areas & @ 50 % in scheduled areas is available for this project.
Nodal Agency	Directorate of Horticulture

Development of cold chain facilities	
Sector of the Project	**Fisheries sector**
Project Contours (100 words)	Establishment of Ice- plant and chilled rooms is required for minimizing the post harvest losses and increasing product quality, shelf life. Induction of fish transport infrastructure like insulated/ refrigerated vans ensure better quality of produce with better price.
Total Land Area Required for Project	0.20- 1.0 acre
Project Location	Anywhere in the State.
Approximate Project Cost	Rs. 2 crore (subject to inclusion of various components like ice plant, cold storage and fish transport infrastructure.
Project Execution Time Frame	2 Years
Employment Generation	20- direct, 100-indirect persons
Investment Opportunities (100 words)	The present fish production of Odisha is 6.08 lakh MT. But the present capacity of ice plant in Odisha is inadequate for the industry leading to post harvest loss under distress sale. Subsidy assistance is available under State Agriculture Policy – 2013 (MKUY Scheme) for establishment of cold chain facilities.
Nodal Agency	Fisheries Department/ APICOL/ MSME Department

2MT Cold Room	
Sector of the Project	**Horticulture/Fisheries/ARD/Food Processing**
Project Contours (100 words)	◆ The annual production of fruits and vegetables in the country accounts for18 to 20% of our agriculture output. Varied agro climatic conditions and better availability of scientific package of practices, there is a vast scope for increasing the production. The lack of cold storage / cold room facilities is one of the main bottlenecks in tapping the potential. ◆ The per capita availability of fruits and vegetables is significantly low because of post-harvest losses which account for about 25% to 30% of production. ◆ Further, the quality of sizeable quantity of produce also deteriorates the moment it reaches the consumer. This happens because of perishable nature of the products. ◆ Availability of Cold storage/Cold room facility will help the farmers engaged in Horticulture/Fisheries/ARD/Food Processing sectors in removing the risk of distress sale and simultaneously will ensure better returns. Introduction of multi chambered cold storage/room in the State can prove to be a boon for farmers.
Total Land Area Required for Project	6 ft × 4 ft
Project Location	All over Odisha
Approximate Project Cost	Rs.3 lakh
Project Execution Time Frame	35 Days
Employment Generation	3
Investment Opportunities (100 words)	◆ To store the surplus amount of vegetables/fishery/dairy/poultry products in daily market for selling the products later. ◆ To reduce the distress sale of the produce in the market. ◆ To develop the cold chain facility near market outlets. ◆ To augment the income in case of farmers/small beneficiaries.
Nodal Agency	APICOL/ MSME Department/ Directorate of Horticulture/Fisheries/AH & VS/Industries

Solar Cold Room/Storage (5-6 MT)	
Sector of the Project	**Horticulture/Fisheries/ARD/Food Processing**
Project Contours (100 words)	◆ Varied agro climatic conditions and better availability of scientific package of practices, there is a vast scope for increasing the production. ◆ Though the State produces huge quantity of fruits and vegetables, but the post harvest losses to the tune of 25 – 40 % has been causing huge loss to the growers as well as the per capita availability is also reducing. ◆ Further, the quality of sizeable quantity of produces also deteriorates in transit. This happens because of perishable nature of the products. Our farmers continue to remain poor even though they take risk to cultivate high value fruits and vegetables year after year. ◆ Introduction of Cold storage/ Cold room facility will help the min removing the risk of distress sale and simultaneously will ensure better returns. ◆ The lack of cold storage / cold room and uninterrupted power is one of the main bottlenecks in tapping the potential in rural Odisha. ◆ Solar Cold rooms/storage of 5-6 MT capacity would address all such problems and help the farmers to augment their income.
Total Land Area Required for Project	30 ft × 15ft × 10ft
Project Location	Throughout Odisha
Approximate Project Cost	Rs.18 lakhs
Project Execution Time Frame	90 Days
Employment Generation	4
Investment Opportunities (100 words)	◆ To store the surplus amount of vegetables/fishery/dairy/poultry products in daily market for selling the products later. ◆ To reduce the distress sale of the produce in the market. ◆ To develop the cold chain facility near market outlets. ◆ To augment the income in case of farmers/small beneficiaries.
Nodal Agency	APICOL/ MSME Department/ Directorate of Horticulture/Fisheries/AH & VS/ Industries

Development of Multi-commodity Cold Storage facilities (5000MT)	
Sector of the Project	**Horticulture**
Project Contours (100 words)	◆ Odisha is a 7th largest producer of vegetables with annual production of 90 lakh MT, major producer of spices with production of 5.00 lakh MT & fruits production of 21.00 lakh MT. ◆ In spite of this the per capita market availability of fruits & vegetables which is quite low due to lack of appropriate facilities of transportation & storage. ◆ The present operational capacity of the cold storage in the State is inadequate to address the present demand which leads to more than 20% wastage of fruits & vegetables. ◆ In order to reduce post harvest losses in fruits & vegetables, there is a potential to establish multi-commodity cold stores in the specified location by private entrepreneurs for long term storage of produces.
Total Land Area Required for Project	Approx. 2.00 Acres for 5000 MT
Project Location	Bargarh, Boudh, Dhenkanal, Gajapati, Kalahandi, Kandhamal, Nayagarh, and Bolangir districts
Approximate Project Cost	6.50 - 7.00 croresfor a capacity of 5000 MT
Project Execution Time Frame	12 Months
Employment Generation	Approx. 50-100 at each location
Investment Opportunities (100 words)	◆ The proposed cold store units have flexibility in resorting to multi-product warehousing activities due to its inherent advantage of precise control mechanism of temperature & humidity in different chambers. If properly employed can reduce the market risk of single crop dependence & would keep the units viable. ◆ Creating of infrastructure, operation & maintenance through private entrepreneurship. ◆ Capital Investment subsidy @ 55 % limited to Rs.220.00 lakh in general areas & @ 70% limited to Rs.280.00 lakh in scheduled areas is provided by National Horticulture Mission.
Nodal Agency	Directorate of Horticulture/ OSAM Board/APICOL

Milk processing 10000 LTD/ Day	
Sector of the Project	**Animal Resource Development**
Project Contours (100 words)	◆ Odisha being a major producer of Milk, there is investment potential for Milk processing plants. The technology and know-how process for manufacturing is available at OUAT, KVKs etc. ◆ A unit with an installed capacity of 10000 Litres/day can be considered as an economically viable milk processing plant in the State. There is great demand for processed milk and other value added milk products such as Toned milk, Ghee, Milk powder, Skimmed milk powder, Cheese etc. at domestic and outside markets. ◆ The key business matrix are: BCR: 1.03:1 IRR:32.50% DSCR:1.63
Total Land Area Required for Project	0.80 ha
Project Location	Anywhere in the State
Approximate Project Cost	Rs.258.24 lakh
Project Execution Time Frame	2 years
Employment Generation	25 direct and 50 indirect
Investment Opportunities (100 words)	◆ Per capita availability of milk is much less in the state in comparison to ICMR/Nutritional Advisory committee. ◆ Incentives for the project are available by both State Government as well as Government of India under various schemes. ◆ Under MKUY (State Agri. Policy-2013), 50% of CIS is available for SC/ST/Women/ Agri. and allied sector Graduates, 40% for General Male category upto a maximum 50 lakhs. ◆ Thrust has been given by the State for production of A2 milk from indigenous cattle like Binjharpuri breeds/Chilika Buffaloes. ◆ Transportation business and utilization of Reefer Vans.
Nodal Agency	APICOL/ MSME Department/ Directorate of Industries, Odisha

Meat processing plant (Chevon, Poultry & Mutton) Capacity- 210 Tons per Month	
Sector of the Project	**Animal Resource Department/Food Processing**
Project Contours (100 words)	◆ Less than 6.55% Sheep & Goat are used as processed meat and rest 93.45 % are used as fresh meat. The technology & know how of processing can be obtained from OUAT, KVKS etc. ◆ A processed meat unit with an installed capacity of 7 Tons per Day may be taken as an investible project. There is a wide scope for processed meat which can be used for both domestic as well as outside markets. Value added meat products such as Kabab, salami, slices etc. has higher market demand as it has got much hygienic security. ◆ Profit generates from 1st year. Return on Investment: 1st yr 1% 2nd yr: 9%, 3rd yr:19% IRR: 20.05% DSCR:1.89% Repayment period 7yrs. Capacity utilization-1st yr-60%, 2nd yr- 80%, 3rd yr- 100%. Working Hour-14hr & 360 days.
Total Land Area Required for Project	3 acres
Project Location	Anywhere in the State
Approximate Project Cost	Rs.633.50 lakh
Project Execution Time Frame	2 years
Employment Generation	30
Investment Opportunities (100 words)	◆ Both State Government as well as Government of India under various schemes are providing incentives in the form of subsidy. The project is economically viable & its growth rate is expected to be satisfactory. ◆ Easy availability of raw materials.
Nodal Agency	APICOL/ MSME Department/ Directorate of Industries, Odisha

Cattle and Poultry Feed Plant (6000 MT/annum)	
Sector of the Project	**Animal Resources Development**
Project Contours (100 words)	◆ Poultry industry is one of the fastest growing industry in the state which necessitates investment in poultry feed plant as feed is the major input for the industry. ◆ Profit generates from 1st year onwards. ◆ Power connection required- 150-200 HP. ◆ Return on Investment; 1st year: 15%, 2nd year: 18%, 3rd year: 21%, 4th year: 24%, 5th year: 25% IRR: 34.00% DSCR: 2.10%
Total Land Area Required for Project	1 acre
Project Location	All over Odisha
Approximate Project Cost	Rs. 112.68 lakhs
Project Execution Time Frame	2 years
Employment Generation	30 direct, 50 indirect.
Investment Opportunities (100 words)	◆ This project is economically viable & its growth rate is expected to be satisfactory. ◆ Under State Agriculture Policy-2013, 50% CIS is available for SC/ST/Women/ Agri. & allied sector Graduates, 40% for General Male category- maximum up to 50 lakhs. ◆ Subsidy also available under Food Processing Policy
Nodal Agency	F & ARD Department/ APICOL/ MSME Department/ Directorate of Industries

Fish Feed Mill (Medium scale 2 MT)	
Sector of the Project	**Fisheries sector**
Project Contours (100 words)	◆ Freshwater fish farming has been fast developing from traditional extensive system to semi-intensive fish farms use formulated, pelleted feeds. ◆ Regular feeding achieves growth increment in terms of weight gain by 65.2% in Carps and &73.2% in Tilapia.
Total Land Area Required for Project	0.5-1 acre
Project Location	Throughout the State depending on fish culture potential of the district.
Approximate Project Cost	Rs. 10-12 Crores
Project Execution Time Frame	1 year
Employment Generation	30 direct, 100 indirect.
Investment Opportunities (100 words)	◆ Odisha has a huge potential for fish production with 3.31 lakh ha area for tanks & reservoirs. ◆ Currently there are only 2 to 3 commercial fish or prawn feed mills around Bhubaneswar and Cuttack. ◆ At other places new feed mill plants can be established under Blue Revolution/State Agriculture Policy (MKUY Scheme). ◆ Capital Investment Subsidy @ 40 or 50% limited to Rs. 50 lakhs is available under State Agriculture Policy and @ 35% limited to Rs. 2.0-3.0 crores under Odisha Food Processing Policy 2016.
Nodal Agency	Directorate of Fisheries/MSME Department/Directorate of Industries/ CIFA/APICOL

Fish & Prawn Processing	
Sector of the Project	**Fisheries sector**
Project Contours (100 words)	◆ Odisha has great potential for establishment of fish or prawn processing units. ◆ At present state has 32 registered exporters, 21 processing plans, 20 cold storages which storage capacity of 2460 MT. ◆ The state has 4.18 lakh hectors brackish water area for shrimp culture with annual installed fish and prawn freezing capacity of 0.66 lakh MT (220 MT×300 days) against production of 4.399 lakh MT (i.e. 15% of annual production).
Total Land Area Required for Project	1-3 acre
Project Location	Khurda, Puri, Ganjam, Balasore, Bhadrak, Jagatsinghpur & Kendrapara districts.
Approximate Project Cost	Rs. 2-15 Crores
Project Execution Time Frame	1 year
Employment Generation	50 direct, 100 indirect for a medium scale plant.
Investment Opportunities (100 words)	◆ Apart from domestic market, there are good export possibilities for these products as well. ◆ Demand for Indian fish and prawn is increasing in the international market due to quality and competitive pricing in Japan, South East Asian countries, European Union, US and Middle East being the major market for Indian Fishery products. ◆ Capital Investment Subsidy assistance @ 40 or 50% is available under SAP-2013 with a maximum limit of Rs. 50 lakhs.
Nodal Agency	Directorate of Fisheries/MPEDA/ APICOL/ MSME Department/ Directorate of Industries

Sea Food Processing Industry	
Sector of the Project	**Fisheries sector**
Project Contours (100 words)	◆ Odisha has great potential for establishment of Sea food processing industry. A minimum area of 2 acre is required for establishment of sea food processing industry with a production capacity of 30 to 35 MT per day.
Total Land Area Required for Project	2 acres
Project Location	Ganjam, Khurda, Puri, Jagatsinghpur, Kendrapara, Bhadrak, Balasore
Approximate Project Cost	Rs. 20 crores
Project Execution Time Frame	2 years
Employment Generation	200 direct, 500 indirect.
Investment Opportunities (100 words)	◆ Odisha is targeting to increase sea food export from the present level of Rs.2400 Crores to Rs.20000 Crores annually. There is ample scope to develop sea food industries in Odisha. Presently, around 15000 ha area is under brackish water shrimp culture in 7 coastal districts with annual production of 58000 MT. It is targeted to put 32000 ha under culture for production enhancement up to 3.60 lakh MT annually. Brackish water shrimp is totally export oriented commodity. There is vast scope to enhance the production and fetch high value in foreign markets.
Nodal Agency	Fisheries Department/ MPEDA/APICOL/ MSME Department/ Directorate of Industries

Pulses Processing	
Sector of the Project	**Food Processing**
Project Contours (100 words)	◆ India is the largest producer, consumer and importer of pulses in the world. Pigeon pea, chick pea, black gram and green gram are the major pulses grown in Odisha. ◆ A plant with a capacity of processing 2MT dal/hr, the project cost is around 483.08 lakh, out of which the fixed capital investment is 454.32 lakh and 28.76 lakh is the working capital. The unit may operate for approximately 210 days (seven months) in a year and based on these assumptions, the proposed unit may process 4800 MT pulses per annum.
Total Land Area Required for Project	1350 sqm (Milling area – 1000 sqm, Raw material store – 80 sqm, Finished Goods store – 80 sqm, office-40 sqm, utilities-150 sqm)
Project Location	Ganjam, Bolangir and Kalahandi districts of Odisha.
Approximate Project Cost	Rs. 483.08 lakh
Project Execution Time Frame	10- 12 months
Employment Generation	25- 30 persons
Investment Opportunities (100 words)	◆ Odisha holds tremendous potential for establishing pulse processing units on account of favourable climatic condition for cultivation of pulses in many districts.Since there is a constant demand in the consumer market the demand of dal is always there and is on the increasing trend. ◆ Government of Odisha through State Agriculture Policy (MKUY Scheme) and State Food Processing Policy is providing assistance in the form of capital investment subsidy for establishment of pulse processing industries. ◆ With a little effort on marketing one can successfully establish a pulse processing unit.
Nodal Agency	APICOL / MSME Department/Directorate of Industries, Odisha

Millet processing unit	
Sector of the Project	**Food Processing**
Project Contours (100 words)	◆ Millet is important because of its uniquely high content of nutrients, including impressive starch levels, vitamin-B, calcium, iron, potassium, zinc, magnesium and fats. ◆ Cleaned gram, Flour, Nutri Drinks, cookies, bread/bun, cake, Pizza base, vermicelli etc. are some of the value added products out of millets. ◆ Finger millet and little millet can be exploited for preparation of nutritious value added health food. In the context of modern life style, a variety of nutritionally designed health food is in demand for all the age groups. Key business matrix of the project IRR = 20 % BEP = 57 %
Total Land Area Required for Project	8,000 sqft for a capacity of 200 MT/annum
Project Location	Gajapati, Ganjam and Koraput districts
Approximate Project Cost	Rs.69 lakhs
Project Execution Time Frame	10-12 months
Employment Generation	9 persons
Investment Opportunities (100 words)	◆ In Odisha, millets cover 190370 hawith production of 158070 MT annually. ◆ Readymade market for millet based food products ◆ Incentives are being provided under State Agricultural Policy(MKUY Scheme)
Nodal Agency	APICOL/ Directorate of Agriculture &Food Production

Seed Processing	
Sector of the Project	**Agriculture**
Project Contours (100 words)	◆ Seed is the one of the most important inputs that plays a key role in boosting agricultural production. Quality seed alone can increase the production to the extent of above 20%. In order to facilitate easy availability of quality seeds to the farmers, seed processing plants along with godowns is required to be set up at least in each blocks of the State. ◆ Seed processing plant will be equipped with all the machines needed for successful cleaning and grading operations. After processing, the seeds are packed in bags. Proper storage facilities are also provided to seeds till it is supplied to the farmers.
Total Land Area Required for Project	0.40 ha
Project Location	Multiple locations of the State
Approximate Project Cost	Rs. 0.40 - Rs. 2.00 Crores for a capacity of 2 - 4 tonnes per hour
Project Execution Time Frame	Two years
Employment Generation	Approx. 15 persons per plant
Investment Opportunities (100 words)	◆ Seed Replacement Rate is not achieved up to the desired level in the State. So, there is potential to set up more number of seed processing plants within the State. ◆ Since the capacity of Government owned seed processing plants is inadequate, State Government is providing incentives as Capital Investment Subsidy, as admissible under State Agriculture Policy (MKUY Scheme) to the entrepreneurs for setting up of more number of seed processing plants in the State. ◆ Investment is required for creation of infrastructure, operation and maintenance through PPP mode.
Nodal Agency	Directorate of Agriculture & Food Production /APICOL

Spices Processing	
Sector of the Project	**Food Processing**
Project Contours (100 words)	◆ Spices are an integral part of Indian Food. While India has been the world's largest producer of spices, we consume a very large proportion of our production. India also exports substantial quantity of spice powder and spice mixes to Middle East and other countries like Australia, UK, Canada, USA and Germany. ◆ With an installation capacity of processing 10 Ton spices/day (i.e. 250 MT per month), the project cost will be approximately Rs.16,23,01,563/-, out of which the fixed capital investment will be Rs.11.40 crore and total recurring expenses per month will be Rs.4,83,01,563/-.
Total Land Area Required for Project	1.0 Ac is necessary for the project which includes main production area, packaging room, godown and drying yard.
Project Location	Cuttack, Koraput, Keonjhar, Ganjam and Kandhamal districts.
Approximate Project Cost	Rs.1623.56 lakh
Project Execution Time Frame	10 – 12 months
Employment Generation	52 persons
Investment Opportunities (100 words)	◆ Apart from Kandhamal and Koraput districts which are organic by default and famous for Turmeric & Ginger, other districts such as Ganjam, Samalpur, Keonjhar, Balasore, Cuttack, Angul, Koraput and Mayurbhanj produce other spices like Chilly, Coriander, Black pepper and Cumin. Raw materials are available round the year. ◆ CFTRI, Mysore successfully developed the technical knowhow. ◆ State Government through State Agriculture Policy (MKUY Scheme) and State Food Processing Policy provides incentives in the form of Capital Investment Subsidy for setting up of spices based industries.
Nodal Agency	APICOL/ MSME Department/ Directorate of Industries, Odisha

Turmeric processing unit	
Sector of the Project	**Food processing**
Project Contours (100 words)	◆ Turmeric is a flavoursome spice that is nutritious to consume. Curcumin is the active ingredient in turmeric and it has powerful biological properties. It treats inflammatory conditions, skin diseases, wounds, digestive ailments, and liver conditions. ◆ Turmeric Powder, oil, oleoresin are some the value added products. ◆ Turmeric is widely used in culinary preparations in every household and it is also used for medicinal and cosmetic purpose. Key business matrix of the project IRR = 23 % BEP = 47 %
Total Land Area Required for Project	12,000 sqft for a capacity of 600 MT/annum
Project Location	Kandhamal and Koraput districts
Approximate Project Cost	Rs. 219 lakhs
Project Execution Time Frame	10 – 12 months
Employment Generation	16 persons
Investment Opportunities (100 words)	◆ Turmeric covers an area of 28330 ha with production of 225690 MT in Odisha annually. ◆ Kandhamal district alone produces about 80 % of turmeric production of Odisha which is organic in nature. ◆ Turmeric powder has vast market within and outside the country ◆ Incentives are being provided under State Agriculture Policy (MKUY Scheme)
Nodal Agency	APICOL/ MSME Department/ Directorate of Industries/ Directorate of Horticulture

Dehydrated Onion processing unit	
Sector of the Project	**Food processing**
Area	34920 ha
Production	419090 MTs
Project Contours (100 words)	◆ Onion is an important ingredient in spice mix powder and widely used in culinary preparations in every household for its flavour. Onion is also good source of vitamin C, vitamin B-6, and manganese. ◆ There is heavy loss of onion due to lack of storage infrastructure which can be prevented by storing it in dehydrated form. ◆ Dehydrated onion has vast market within and outside the country in the spice industry and processed food industries. Key business matrix of the project IRR = 30 % BEP = 45 %
Total Land Area Required for Project	12,000 sqft for a capacity of 800 MT/annum
Project Location	Bolangir and Angul districts
Approximate Project Cost	Rs. 231 lakhs
Project Execution Time Frame	12-16 months
Employment Generation	21 persons
Investment Opportunities (100 words)	◆ Annually, Onion covers an area of 34920 ha with a production of 419090MT in Odisha. ◆ Readymade market available for dehydrated Onion ◆ Incentives are being provided under State Agricultural Policy(MKUY Scheme) and Food Processing Policy
Nodal Agency	APICOL/ MSME Department/ Directorate of Industries/ Directorate of Horticulture

Ginger oil and oleoresin processing plant	
Sector of the Project	**Food processing**
Project Contours (100 words)	◆ Ginger oil and oleoresin are important value added products from ginger. Ginger oil is the volatile component and oleoresin is the total extract of ginger including volatile and non-volatile oil component. ◆ It is good source of Vitamin C, Magnesium, Potassium, Copper and Manganese. ◆ These are mainly used in food preparations, processed food and pharmaceutical industries. ◆ There is demand for these products in domestic as well as international market. Key business matrix of the project IRR = 26 % BEP = 46 %
Total Land Area Required for Project	12,000 sqft for a capacity of 400 MT/annum
Project Location	Koraput and Kandhamal
Approximate Project Cost	Rs.349 lakhs
Project Execution Time Frame	12-16 months
Employment Generation	16 persons
Investment Opportunities (100 words)	◆ Annually, Ginger covers an area of 17030 ha with a production of 134370 MT in Odisha. ◆ International market can be exploited ◆ Incentives are being provided under State Agriculture Policy(MKUY Scheme)
Nodal Agency	APICOL / MSME Department/ Directorate of Industries/ Directorate of Horticulture

Frozen vegetable processing plant	
Sector of the Project	**Food processing**
Project Contours (100 words)	◆ Frozen vegetables such as peas, sweet corn, mushroom are gaining popularity among urban consumers. ◆ Frozen vegetables can preserve the natural taste and flavor of the product unlike thermally processed and dehydrated product. ◆ Individual quick freezing technology could be adopted for frozen vegetables. Key business matrix of the project IRR = 20 % BEP = 54 %
Total Land Area Required for Project	10,000 sqft for a capacity of 250 MT/annum
Project Location	Bolangir, Cuttack, Jajpur, Ganjam and Keonjhar districts
Approximate Project Cost	Rs. 315 lakhs
Project Execution Time Frame	12-16 months
Employment Generation	20 persons
Investment Opportunities (100 words)	◆ As frozen vegetables don't get spoiled even after months once they are kept in cold storage. ◆ Today, there is growing demand of frozen vegetables in urban areas of our country. ◆ International market can be exploited for better profitability. ◆ Incentives are being provided under State Agricultural Policy(MKUY Scheme)
Nodal Agency	APICOL/ MSME Department/ Directorate of Industries/ Directorate of Horticulture

Tamarind pulp concentrate processing unit	
Sector of the Project	**Food processing**
Project Contours (100 words)	◆ Tamarind is an economically important multipurpose produce which can be processed in the variety of food products of commercial importance. ◆ Tamarind is a daily used kitchen ingredient in India and its pulp is widely used in food preparations and many types of snacks to impart sour taste. ◆ Restaurants, caterers, hostels, canteens and food processors are the bulk consumers of tamarind paste. ◆ Apart from the growing domestic market, there is much potential to export it to countries like USA, UK, Middle East and Africa. Key business matrix of the project IRR = 16 % BEP = 58 %
Total Land Area Required for Project	10,000 sqft for a capacity of 400 MT/annum
Project Location	Kalahandi, Gajapati and Koraput districts
Approximate Project Cost	Rs. 252 lakhs
Project Execution Time Frame	10-12 months
Employment Generation	12 persons
Investment Opportunities (100 words)	◆ Tamarind is source of vitamin B, vitamin C, potassium, magnesium, iron, thiamine, phosphorus, riboflavin, and fiber. ◆ Tamarind sauce, tamarind pickle and tamarind squash are some of the value added products out of pulp concentrate. ◆ It has readymade market. ◆ Incentives are being provided under State Agricultural Policy(MKUY Scheme)
Nodal Agency	APICOL/ MSME Department/ Directorate of Industries

Fruit juice beverage processing unit	
Sector of the Project	**Food processing**
Project Contours (100 words)	◆ Mangoes and pineapples are important healthy and nutritious tropical fruits of Odisha which are liked by people for use in the form of refreshing and thirst quenching beverages. ◆ Mango production in the state has increased significantly with NHM intervention. ◆ These fruits can be processed to produce different types of beverages like fruit juices, squashes, cordials, crushes and syrups in commercial scale. ◆ These fruit juice beverages are having market all around the year especially in summer season. Key business matrix of the project IRR = 34 % BEP = 41 %
Total Land Area Required for Project	10,000 sqft for a capacity of 300 MT/annum
Project Location	Keonjhar, Kandhamal, Gajapati and Koraput districts
Approximate Project Cost	Rs. 307 lakhs
Project Execution Time Frame	12-16 months
Employment Generation	19 persons
Investment Opportunities (100 words)	◆ The packaged fruit juice is one of the fastest growing products and has a readymade market. ◆ Small, medium or large scale fruit juice production is a profitable investment opportunity for the new entrepreneurs. ◆ Incentives are being provided under State Agricultural Policy(MKUY Scheme) and Food Processing Policy.
Nodal Agency	APICOL/ MSME Department/ Directorate of Industries/ Directorate of Horticulture

Tomato processing unit	
Sector of the Project	**Food processing**
Project Contours (100 words)	◆ Tomato is a versatile vegetable which is widely used for culinary purposes in every household. ◆ Suitable process able varieties of tomato could be processed for preparation of tomato juice, puree, paste, ketchup and sauce. ◆ With modern life style and expanding of fast food market, the demand for tomato ketchup and sauces is ever increasing. Key business matrix of the project IRR = 17 % BEP = 58 %
Total Land Area Required for Project	10,000 sqft for a capacity of 500 MT/annum
Project Location	Ganjam, Kalahandi, Keonjhar and Koraput districts
Approximate Project Cost	Rs.201 lakhs
Project Execution Time Frame	12-18 months
Employment Generation	26 persons
Investment Opportunities (100 words)	◆ Tomatoes are source of vitaminC, biotin, molybdenum and vitaminK. They are also a very good source of copper, potassium, manganese, dietaryfiber, vitamin A (in the form of beta-carotene), vitamin B6, folate, niacin, vitamin E and phosphorus. ◆ Juice, Puree, Ketchup, Chutney,Sauces,Powder, Ready-To-Eat are some of the products can be prepared from tomatoes. ◆ It has readymade market. ◆ Incentives are being provided under State Agricultural Policy(MKUY Scheme) and Food Processing Policy.
Nodal Agency	APICOL/ MSME Department/ Directorate of Industries/ Directorate of Horticulture

Development of value added products from Sweet Potato	
Sector of the Project	**Food processing**
Project Contours (100 words)	◆ The different value added products is prepared from Sweet potato like pasta, noodles, extruded products, snacks, chips, jelly, ready to mix flour etc. ◆ The orange flesh (BhuSona) and purple flesh (Bhu Krishna) varieties of sweet potato rich in beta-carotene and anthocynin respectively which provides vitamin A and anti-cancerous properties. ◆ The products prepared in combination of millet flour and sweet potato flour provides excellent nutrition to children, adults and old persons. ◆ These products play a vital role to reduce malnutrition in human population.
Total Land Area Required for Project	250 square meter
Approximate Project Cost	100 lakhs
Project Execution Time Frame	2 years
Investment Opportunities (100 words)	◆ Odisha, being the larger producer of Sweet potato, the new entrepreneurs would start their processing units on value addition of sweet potato. ◆ Sweet potato is very nutritious, rich in dietary fiber, low glycemic index (diabetic patients can be consume), good source of Vitamin A & Vitamin C and also rich in minerals. ◆ The snacks products like Chips, bakery products like cake, bread, pulp based products like jelly, RTS, ready to mix products like instant paratha mix, instant ladoo mix fetches the demand of the products in the growing market. ◆ This will give the better opportunity to new start-ups and sweet potato growing farmers for increasing their income through processing.
Nodal Agency	ICAR-Central Tuber Crops Research Institute, Regional Centre, Dumduma H.B. Bhubaneswar / APICOL/MSME Department/ Directorate of Industries, Odisha.

Cashew Processing Industry	
Sector of the Project	**Food processing**
Project Contours (100 words)	◆ India is a leading producer, processor and the second largest exporter of Cashew nut.Odisha is one of the leading producer of cashew, Ranking third with area 0.150 Million ha, production-0.09 MT and productivity- 790 kg/ ha. Cashew is largely consumed as a dry Fruit. ◆ Cashew Nutshell Liquid (CNSL) is having commercial importance and cashew apple is edible which is rich in Vitamin-C. ◆ Cashew Apple Juice can be fermented to a liquor called as Feni. Cashew nut Processing can therefore, be taken as a successful CAE, in the state. ◆ An unit with a capacity of Processing 300 MT cashew Nuts per annum, the project cost id 150.05 lakh, where BEP- 40%, DSCR- 1.87 and Payback period is 5 years.
Total Land Area Required for Project	1 Acre
Project Location	Khurda, Koraput, Nabarangpur, Dhenkanal, Ganjam, Gajapati, and Mayurbhanj Districts of Odisha.
Approximate Project Cost	Rs. 150.05 lakhs
Project Execution Time Frame	10 – 12 Months
Employment Generation	20 persons
Investment Opportunities (100 words)	◆ At Present, there are different Govt. Schemes under State as well as GOI, where incentives are being provided for setting up of Cashew Processing Industries. ◆ There is a well-established network which is working for import of cashew from various parts of the world, So that raw materials are available throughout the year.
Nodal Agency	APICOL/ MSME Department/ Directorate of Agriculture and Food Production, Odisha / Directorate of Industries, Odisha.

Dal processing unit	
Sector of the Project	**Food processing**
Project Contours (100 words)	◆ Green gram and black gram are the major pulses produced in Odisha. ◆ These pulses are important source of protein in our diet and consumed in dehusked form as cooked dal. ◆ These are also used for preparation of many food products. ◆ There is demand for dehusked and split dal in domestic market. Key business matrix of the project IRR = 25 % BEP = 48 %
Total Land Area Required for Project	12,000 sq ft for a capacity of 600 MT/annum
Project Location	Ganjam, Jajpur, Nayagarh, Dhenkanal and Cuttack districts
Approximate Project Cost	Rs. 121 lakhs
Project Execution Time Frame	12-16 months
Employment Generation	15 persons
Investment Opportunities (100 words)	◆ Dal is rich in Protein, vitamin, iron, and essential amino acids. ◆ It has readymade market in the State. ◆ Incentives are being provided under State Agricultural Policy(MKUY Scheme) and Food Processing Policy.
Nodal Agency	APICOL/ MSME Department/ Directorate of Industries, Odisha

Maize processing unit	
Sector of the Project	**Food processing**
Project Contours (100 words)	◆ Maize is abundantly grown in undivided district of Koraput in both Rabi and Kharif season. Out Of total production of 8.0 lakh MT in the State. Nabarangpur is the leading District in Odisha, which produces in an average of 3.6 lakh MT of maize/year. ◆ The flakes are the main product of the proposed maize processing plant. It is a product of dry milling, which is manufactured by flaking of the major grain after extraction of germ. The maize flake is a preferred product compared to other flakes. By flaking the maize, its use is enhanced. The flakes, so produced being of high quality has good market demand. Key business matrix of the project: Breakeven point at a capacity of 48.17% DSCR – 1.71 Payback period is 7 years
Total Land Area Required for Project	0.40 ha
Project Location	Nabarangpur, Gajapati and Keonjhar districts
Approximate Project Cost	Rs. 75 lakh capacity – 3 qtls/hour
Project Execution Time Frame	One year
Employment Generation	Approx. 17 persons per plant
Investment Opportunities (100 words)	◆ The productivity of maize is high which can still be raised ◆ Higher the production, lesser will be the cost of production ◆ The farmers are compelled to sell their produce the traders at low prices due to lack of local demand and excess production. This provides ample opportunity for development of maize processing plant. ◆ Processing of by-product for animal feed ◆ Production of corn oil/ starch/ ethylene ◆ Demand for processed/ convenience food is constantly on rise. ◆ Comparatively cheaper labour availability ◆ Liberalized policy regimes of the Govt. of Odisha/ Govt. of India
Nodal Agency	APICOL/ MSME Department/ Directorate of Industries, Odisha

Oil Extraction Mill	
Sector of the Project	**Food processing**
Project Contours (100 words)	◆ Groundnut is the major oilseed crop cultivated in Odisha along with Mustard and Sunflower. Crushing of these oilseeds by an expeller yields crude oil which after filtration can be packed for sale directly. With advance in technology, oilseeds are processed in refineries, where the process includes neutralization, bleaching and deodorization. ◆ Oil mill can be set up in Odisha, where the by-products such as oil cake may be sold to feed processing industries. Out of the total project cost of Rs.387.58 lakh, the infrastructure development comes to Rs.219.40 lakh and plant & machineries Rs.106.21 lakh.
Total Land Area Required for Project	An area of 1.00 AC is required to set up a unit of 900 MT / annum (3 MT of groundnut / day) capacity.
Project Location	Jajpur, Ganjam, Bargarh, Malkangiri and Kalahandi districts.
Approximate Project Cost	Rs.387.58 lakh for 3 MT per day Capacity
Project Execution Time Frame	10- 12 months
Employment Generation	20-25 persons
Investment Opportunities (100 words)	◆ Edible oils have always a readymade market as the availability of edible oil is lower than the market demand. ◆ Thrust should be given on production of more quantity ofoilseeds. ◆ Incentives are being provided under State Agriculture Policy (MKUY Scheme) and Food Processing Policy for establishment of oil mills.
Nodal Agency	APICOL/ MSME Department/ Directorate of Industries, Odisha.