



Detailed Project Report ***on*** ***Groundnut Processing Unit***

Under MKUY

Name of the Entrepreneur/Entity:

Address:



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1. Project Summary

1	Name of the Enterprise (as per the Illustrative List of Enterprises)	Groundnut Processing
2	Sector (as per the Illustrative List of Enterprises)	Agriculture
3	Project Capacity ¹	2500 kg/day
4	Key components of the project	Processing, Packaging and Selling
5	Project Address (Village/Ward, Gram Pranchayat/Municipality, Block, District)	
6	Products/Output from the project	Peanut
7	Total Project Cost	Rs. 55,88,800
8	Fixed Capital Cost	Rs. 36,02,800
9	Working/Recurring capital	Rs. 19,86,000
10	Bank Finance/ Self Finance	Bank Loan
11	Bank Loan Amount	Rs. 46,32,720
12	Promoter Contribution (min 10% of the project cost in case of bank loan)	Rs. 9,56,080
13	Assumed Rate of Interest	11%
14	Subsidy Eligibility (40%, 50%)	
15	Repayment Terms (Tenure, Moratorium, Frequency, Mode of Repayment: equal principal/equal instalment)	Equal Monthly Instalment
16	Key Financial Indicators: 1. Average Annual Net Profit 2. Debt Service Coverage Ratio (DSCR) 3. Internal Rate of Return 4. Break Even Point (BEP)/Year	
		Rs. 18,02,378
		2.69
		28.83%
		3 Years and 2 Month
17	Estimated employment to be generated (nos.)	12

Note: The price quoted in the DPR is indicative. Final CIS will be calculated as per the Rate in MKUY guideline.

¹ Capacity can be in terms of area or quantity



2. Project Profile

2.1 Entrepreneur/Entity Profile

1	Name of the Entrepreneur/Entity	
2	Legal status (Individual/ Group/ FPO/ FPC/ Proprietorship/ Partnership firm/ Company/ Cooperative/ Federation/ Society/ Trust)	
3	Name of Representative ² in Ease of entity	
4	Gender (Male/ Female/ Third Gender/ Not Applicable)	
5	Date of Birth of Individual/Representative of Entity	
6	Date of Incorporation/Registration of Entity	
7	Category opted for (Women/ ST/ SC/ Differently Abled/ Third gender/ Agri & Allied Graduate)	
8	Educational Qualification of Individual/Representative of Entity	
9	Passport size photograph of the Individual/ Representative of entity	
10	Local Address for Correspondence of the Individual/ Representative of entity	
11	Registered Address of Entity	
12	Main Office/Branch Address of Entity	
13	Phone no. of Individual/Representative of Entity	
14	Email Id of Individual/Representative of Entity	
15	AADHAR No. of Individual/Representative	
16	PAN of Individual/Representative of Entity, if available	
17	Farmer Id of Individual, if available	
18	Details of other Partner/Director/ President/Secretary	
19	Registration No./ CIN of the Entity ³	
20	PAN/TAN of Entity	
21	GSTIN of Entity, if available	
22	Details of experience and exposure relevant to the proposed enterprise/project (family business, work experience, e- learning/certificate courses, trainings undertaken etc.)	

² Representative should be authorized by the board/governing body of the entity.

³ Registration document:

Groups (SHG/PG/): FPO: Proprietorship firm: Registration Certificate under Shops & Establishment Act, Partnership firm: Registration Certificate from IGR of state, Company (Pvt. Ltd., Public Ltd., LLP, OPC, FPC): Certification of Incorporation, Cooperative/ Federation: Certificate of Registration from Registrar of Cooperative Societies, Society/Trust: Darpan Unique Id



2.2. Project Consultant Details

DPR prepared by: APICOL

Please provide further details of the consultant:





2.3. Concept and Scope of the Project

Groundnut, 'the unpredictable legume' is also known as earthnut, peanut, monkey nut and manilla nut. It is the 13th most important food crop and 4th most important oilseed crop of the world. The botanical name *Arachis hypogaea* L. has been derived from the Greek words, *Arachis* meaning a legume and *hypogaea* meaning below ground referring to geocarpic nature of pod formation. It is one of our country's most important cash crops. It is a low-cost but erratic source. Groundnut is the world's sixth most significant oil seed crop. It includes 48-50% oil, 26-28% protein, and is high in dietary fibers, minerals, and vitamins. Groundnuts are grown on 26.4 million hectares worldwide, with a total productivity of 1.4 metric tons per hectare. Over 100 countries grow groundnuts worldwide. Developing countries account for 97% of the global area and 94% of global agricultural production.

Groundnut kernels have about 25% protein which is 1.3 times higher than meat, 2.5 times higher than eggs and 8 times higher than fruit. The oil content in kernels ranges from 40-50% and is extensively used for cooking (culinary oil) and for preparing vegetable oil (vanaspati). Its oil is also used for the preparation of soaps, cosmetics, cold cream and for various industrial uses.

Groundnut Production in India

India has more land dedicated to groundnut agriculture than China. Because the crop is largely grown under rainfed circumstances, production is lower because yield is low. After China, India is the world's second largest producer of groundnuts. During 2020-2021, the country's major oilseed production will be groundnut. Its cultivation in India is mainly confined to the States of Odisha, Gujarat, Andhra Pradesh, Tamil Nadu, Karnataka, Maharashtra, Madhya Pradesh, Uttar Pradesh, Rajasthan, and Punjab. The highest productivity of groundnut (1604 kg/ha) is in State of Odisha. In Odisha, groundnut is grown in an about 20 lakh hectares area with total production of about 26 lakh tonnes annually. In Odisha, groundnut is grown mainly in the districts of Mayurbhanj, Jajpur, Bhadrak, etc. Mayurbhanj is the heart of the India for groundnut production.

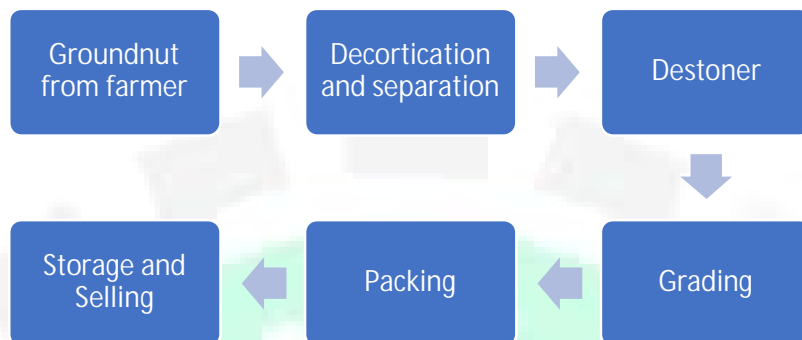
Groundnut contains 40.10% fat and 25.30% protein on average, and it is high in calcium, iron, and vitamin B complexes such as thiamine, Riboflavin, Niacin, and Vitamin A. It has several stages.

Uses

- a. **Groundnut Oil:** Groundnut oil has a variety of applications, the most common of which is as a cooking oil. It is used in a variety of products such as soap producing fuel, cosmetics, shaving cream, leather dressing, furniture cream, lubricants, and so forth. Groundnut oil is also utilized in the production of vanaspathi ghee and fatty acids. It is also employed as a preservation medium in the making of pickles, chutney, and other condiments.
- b. **Kernels:** Whole kernels are prepared for consumption by frying, soaking, roasting, and boiling, as well as in many varieties of namkens. The most common method of consumption is roasted groundnut.



- c. Groundnut Cake: Because of its nutritional richness and palatability, it is an excellent feed for animals and poultry.
- d. Groundnut Shell: Groundnut shell has a lot of commercial potential. It is used in livestock sheds as a fuel filter.



Market Potential

The kernels are consumed either roasted or fried and salted. Groundnut kernel contains about 47-49 % oil and 20 % protein. Its kernel as a whole is highly digestible. The kernels are eaten as either roasted or fried and salted. The biological value of the groundnut protein is among the highest of the vegetable protein and equals that of casein. Groundnut oil is famous for use in human diet and peoples like it more in preparation of their foods as compared to other edible oils. Groundnut oil is primarily used in the manufacturing of vegetable ghee. Groundnut is a good source of all B vitamins except B12. They are a rich source of thiamin, riboflavin, nicotinic acid and vitamin E. 1 g kernel supplies 5-8 food calories.

The oil cake obtained after the extraction of the oil is a valuable organic manure and animal feed. It contains 7-8 % N, 1.5 % P_2O_5 and 1.5 % K_2O . It is a good rotation crop being legume as it builds up the soil fertility by fixing atmospheric nitrogen through root nodules which adds about 12 to 40 kg N/ha and also act as a efficient cover crop for land exposed to soil erosion. The per capita consumption of edible oils in India is about 5 kg/annum, which is far less than the world average of about 13 kg and one fourth of 2 kg/capita consumption in developed countries. Plant haulm used as valuable foods. Shell is used for fuel; thus, it is fourfold crop i.e., food, fodder, feed and bio-fertilizer.

3. Techno-commercial Assumptions

Sl. No.	Parameter	Value	Unit
1	Increase in Rate of Product	5	%
2	Increase in Electricity consumption	5	%
3	Collection from Debtors (First Year)	10	Days
4	Collection from Debtors	10	Days
5	Payable to Creditors	15	Days
6	Drawing By Promoter	20	%
7	Increase in Staff Salary	5	%
8	Rate of Interest on TL	11	%
9	Rate of Interest on WC	9	%
10	Loan Repayment (in year)	7	Years
11	Raw Material in Stock (on sales)	10	Days



Sl. No.	Parameter	Value	Unit
12	Finished Goods in stock (on sales)	5	Days
13	Promoter's Contribution (Term Loan)	10	%
14	Promoter's Contribution (Working Capital)	30	%
15	Working Capital Requirement	15	Days
16	Working Capital Utilisation	100	%
17	No. of Working Days	295	Days
18	Yield of Ground nut	70	%
19	Yield of Groundnut shell	25	%

4. Financial Details

4.1. Project Fixed Capital

Sl. No.	Particulars	Unit	Qty.	Cost per unit	Total
A	Land				
1	Land Development	sq. ft	7000	0.70	4,900
2	Fencing (Barbed wire/Green Fencing)	ft	340	60.00	20,400
	Sub Total				25,300
B	Civil Construction				
1	Production area	sq. ft	2000	400.00	8,00,000
2	Store	sq. ft	2000	400.00	8,00,000
3	Office	sq. ft	200	850.00	1,70,000
4	Labour Shed	sq. ft	250	350.00	87,500
	Sub Total				18,57,500
C	Water Supply				
1	Water Supply with overhead tank and pump				00
D	Electrification				
1	Electrical Installation with transformer and DG Unit				5,00,000
Plant and Machinery					
Sl. No.	Particulars	Specification	Qty	Unit Price	total
1	Groundnut decorticator machine (Combined decorticator and separator)	10 HP 3 phase	1	7,00,000	7,00,000
2	Groundnut destoner machine	2HP	1		
3	Groundnut bucket elevator	6 HP	1		
4	Grader		1		
5	Electric motor and control panels		1		
6	Packing Machine	500g, 1000g	1	5,00,000	5,00,000
	Total				12,00,000
F	Miscellaneous Expenditure				
1	Insurance premium of assets				20,000
	Total				20,000



4.2. Project Variable Expenses

Details of raw material						
Sl. No.	Items	Unit	Rate/Unit (in Rs)	Qty/day	Qty/annum(kg)	Total (Rs)
1	Raw groundnut	Kg	55.00	2500	7,37,500	4,05,62,500
2	Packing material	No.	5.00	1,750	5,16,250	25,81,250
	Total			4,250	12,53,750	4,31,43,750

Details of salary and other benefits				
Sl. No.	Type of workers	No. of worker	Salary per month/head (Rs)	Total salary per annum (Rs)
1	Manager	1	20000	240000
2	Unskilled	7	10000	840000
3	Skilled	2	12,000	2,88,000
4	Domain Skilled	1	12,000	1,44,000
5	Purchase and Store	1	15,000	1,80,000
	Grand Total	12	69,000	16,92,000

4.3. Details of Sales

Details of sales						
Sl. No.	Type of products	Unit	Rate/Unit (Rs)	Quantity/day	Quantity/annum	Total (Rs)
1	Groundnut	Kg	100	1750	5,16,250	5,16,25,000
2	Groundnut shell	Kg	4	625	1,84,375	7,37,500
	Total				7,00,625	5,23,62,500



4.4. Project Balance Sheet

Liabilities	I	II	III	IV	V	VI	VII
Opening Capital	-	19,23,194	26,41,806	32,72,914	40,48,406	49,58,225	57,50,177
Add: Introduced	9,56,080						
Add: Profit	12,09,114	13,79,612	14,50,109	17,88,492	21,49,819	22,29,953	24,09,548
Less: Drawing	2,42,000	6,61,000	8,19,000	10,13,000	12,40,000	14,38,000	16,32,000
Closing Capital	19,23,194	26,41,806	32,72,914	40,48,406	49,58,225	57,50,177	65,27,725
Term Loan from Bank	29,16,865	25,53,526	21,48,142	16,95,847	11,91,213	6,28,183	-
Current Liabilities							
Cash Credit from Bank	13,90,200	13,90,200	13,90,200	13,90,200	13,90,200	13,90,200	13,90,200
Sundry Creditors	12,94,313	18,12,050	20,21,600	22,47,550	24,91,050	26,15,650	27,46,450
Expenses Payable	3,81,300	4,82,800	5,28,600	5,77,800	6,30,600	6,62,100	6,95,600
Current Provisions	2,50,335	3,23,405	3,53,618	4,98,639	6,53,494	6,87,837	7,64,806
Total Current Liabilities	33,16,147	40,08,455	42,94,018	47,14,189	51,65,344	53,55,787	55,97,056
Total Liabilities	81,56,206	92,03,787	97,15,074	1,04,58,442	1,13,14,781	1,17,34,147	1,21,24,781
Assets							
Fixed Assets	36,02,800	36,02,800	36,02,800	36,02,800	36,02,800	36,02,800	36,02,800
Less Depreciation	4,40,750	8,24,675	11,59,370	14,51,384	17,06,366	19,29,194	21,24,082
Net Fixed Assets	31,62,050	27,78,125	24,43,430	21,51,416	18,96,434	16,73,606	14,78,718
Current Assets							
Sundry Debtors	10,47,300	14,66,200	16,35,700	18,18,600	20,15,600	21,16,400	22,22,200
Inventories	14,10,000	17,61,100	21,16,108	23,55,512	26,13,578	27,98,264	29,38,119
Cash and Bank Balance	2,09,500	2,93,300	3,27,200	3,63,800	4,03,200	4,23,300	4,44,500
Other Current Assets	23,27,356	29,05,062	31,92,635	37,69,114	43,85,969	47,22,577	50,41,245
Total Current Assets	49,94,156	64,25,662	72,71,644	83,07,026	94,18,347	1,00,60,541	1,06,46,064
Total Assets	81,56,206	92,03,787	97,15,074	1,04,58,442	1,13,14,781	1,17,34,147	1,21,24,781



4.5. Calculation of Depreciation

Rates of Depreciation		10%	15%	Total depreciation for the year
Year	1	1,85,750.00	2,55,000	4,40,750
	2	1,67,175.00	2,16,750	3,83,925
	3	1,50,457.50	1,84,238	3,34,695
	4	1,35,411.75	1,56,602	2,92,014
	5	1,21,870.58	1,33,112	2,54,982
	6	1,09,683.52	1,13,145	2,22,828
	7	98,715.17	96,173	1,94,888

4.6. Projected P&L

Description	Year ending March 31st						
	I	II	III	IV	V	VI	VII
Capacity Utilisation	60	80	85	90	95	95	95
Revenue							
Sales	3,14,17,500	4,39,85,000	4,90,71,000	5,45,56,000	6,04,67,000	6,34,91,000	6,66,66,000
Opening Stock of Finished Goods	-	(5,32,500)	(7,45,508)	(8,31,712)	(9,24,678)	(10,24,864)	(10,76,119)
Closing Stock of Finished Goods	5,32,500	7,45,508	8,31,712	9,24,678	10,24,864	10,76,119	11,29,932
Total Income (A)	3,19,50,000	4,41,98,008	4,91,57,203	5,46,48,966	6,05,67,186	6,35,42,254	6,67,19,814
Expenditure							
Opening stock of Raw Material	-	8,77,500	12,28,600	13,70,600	15,23,800	16,88,900	17,73,400
Purchase (Net) of Material	2,58,86,250	3,62,41,000	4,04,32,000	4,49,51,000	4,98,21,000	5,23,13,000	5,49,29,000
Closing Stock of Raw material	8,77,500	12,28,600	13,70,600	15,23,800	16,88,900	17,73,400	18,62,000
Raw Material Consumption	2,50,08,750	3,58,89,900	4,02,90,000	4,47,97,800	4,96,55,900	5,22,28,500	5,48,40,400
Repair & Maintenance- Machinery (@3% of Cost)	35,775	36,900	38,800	40,800	42,900	45,100	47,400
Electricity expense	25,13,400	35,18,800	39,25,700	43,64,500	48,37,400	50,79,300	53,37,600
Insurance cost	20,000	21,000	22,100	23,300	24,500	25,800	27,100
Administrative salaries and wages	16,92,000	17,76,600	18,65,500	19,58,800	20,56,800	21,59,700	22,67,700
Other Misc. Expenses [@1% of sales]	3,14,175	4,39,850	4,90,710	5,45,560	6,04,670	6,34,910	6,67,198
Total Cost	2,95,84,100	4,16,83,050	4,66,32,810	5,17,30,760	5,72,22,170	6,01,73,310	6,31,87,398



Profit Before Depreciation, Interest and Tax	23,65,900	25,14,958	25,24,393	29,18,206	33,45,016	33,68,944	35,32,415
Depreciation	4,40,750	3,83,925	3,34,695	2,92,014	2,54,982	2,22,828	1,94,888
Profit Before Interest and Tax	19,25,150	21,31,033	21,89,698	26,26,192	30,90,034	31,46,116	33,37,527
Interest on Term Loan	3,40,583	3,02,899	2,60,854	2,13,943	1,61,604	1,03,208	38,055
Interest on Working Capital Loan	1,25,118	1,25,118	1,25,118	1,25,118	1,25,118	1,25,118	1,25,118
Total Interest Paid	4,65,701	4,28,017	3,85,972	3,39,061	2,86,722	2,28,326	1,63,173
Profit Before Tax	14,59,449	17,03,017	18,03,727	22,87,131	28,03,312	29,17,789	31,74,354
Income Tax	2,50,335	3,23,405	3,53,618	4,98,639	6,53,494	6,87,837	7,64,806
Profit after Tax	12,09,114	13,79,612	14,50,109	17,88,492	21,49,819	22,29,953	24,09,548

4.7. Projected Cash Flow

Period Ending:	I	II	III	IV	V	VI	VII
Cash & Bank Balance at Beginning	-	2,09,500	2,93,300	3,27,200	3,63,800	4,03,200	4,23,300
Cash Inflow during the Period	85,96,956	24,55,844	20,70,367	25,00,677	28,55,955	26,43,224	28,45,705
Cash Outflow during the Period	83,87,456	23,72,044	20,36,467	24,64,077	28,16,555	26,23,124	28,24,505
Closing Cash & Bank Balance	2,09,500	2,93,300	3,27,200	3,63,800	4,03,200	4,23,300	4,44,500

4.8. Projected Loan Repayment

Year	Interest	EMI	Principal
1	3,40,583.31	6,66,238.11	3,25,654.80
2	3,02,898.91	6,66,238.11	3,63,339.20
3	2,60,853.72	6,66,238.11	4,05,384.39
4	2,13,943.11	6,66,238.11	4,52,295.00
5	1,61,604.06	6,66,238.11	5,04,634.05
6	1,03,208.40	6,66,238.11	5,63,029.71
7	38,055.26	6,66,238.11	6,28,182.86
Total	14,21,146.78	46,63,666.78	32,42,520.00



4.9. Calculation of DSCR, IRR and BEP

Calculation of DSCR							
Year	I	II	III	IV	V	VI	VII
Net Sales	3,14,17,500	4,39,85,000	4,90,71,000	5,45,56,000	6,04,67,000	6,34,91,000	6,66,66,000
Net Profit	12,09,114	13,79,612	14,50,109	17,88,492	21,49,819	22,29,953	24,09,548
Depreciation	4,65,701	4,28,017	3,85,972	3,39,061	2,86,722	2,28,326	1,63,173
Cash Accruals (a)	16,74,815	18,07,629	18,36,080	21,27,553	24,36,541	24,58,279	25,72,721
Principal	3,25,655	3,63,339	4,05,384	4,52,295	5,04,634	5,63,030	6,28,183
Interest	4,65,701	4,28,017	3,85,972	3,39,061	2,86,722	2,28,326	1,63,173
Total (b)	7,91,356	7,91,356	7,91,356	7,91,356	7,91,356	7,91,356	7,91,356
DSCR	2.12	2.28	2.32	2.69	3.08	3.11	3.25
Average DSCR	2.69						

Calculation of Break-Even Point (BEP)							
Sales	3,19,50,000	4,41,98,008	4,91,57,203	5,46,48,966	6,05,67,186	6,35,42,254	6,67,19,814
Variable Cost	2,53,22,925	3,63,29,750	4,07,80,710	4,53,43,360	5,02,60,570	5,28,63,410	5,55,07,598
Contribution	66,27,075	78,68,258	83,76,493	93,05,606	1,03,06,616	1,06,78,844	1,12,12,215
Fixed Cost	51,67,626	61,65,242	65,72,767	70,18,475	75,03,304	77,61,055	80,37,862
BEP Sales	2,49,13,806	3,46,31,731	3,85,72,087	4,12,17,346	4,40,93,426	4,61,80,551	4,78,30,389
Average BEP sales	3,96,34,191						

Calculation of Internal Rate of Return (IRR)				
Sl. No.	Year	PAT	Depreciation	Cash Accrual
	Cash outflow at beginning			-55,88,800
1	31-03-2023	12,09,114	4,40,750	16,49,864
2	31-03-2024	13,79,612	3,83,925	17,63,537
3	31-03-2025	14,50,109	3,34,695	17,84,804
4	31-03-2026	17,88,492	2,92,014	20,80,506
5	31-03-2027	21,49,819	2,54,982	24,04,801
6	31-03-2028	22,29,953	2,22,828	24,52,781
7	31-03-2029	24,09,548	1,94,888	26,04,436
IRR		28.83%		
Payback Period	3 Years 2 Month			



4.10. Summary of Project Cost

Sl. No.	Name of Assets	Amount (Rs)
1	Land Development	25,300
2	Civil Construction	18,57,500
3	Irrigation/Water Supply	-
4	Electrification	5,00,000
5	Plant & Machinery	12,00,000
6	Livestock	-
7	Insurance	20,000
8	DPR Cost	-
9	Other Misc. Exp.	-
	Total Fixed Cost	36,02,800
	Recurring	19,86,000
	Cost of Project	55,88,800