



MODEL DPR

SETTING UP OF SPICES

PROCESSING UNIT

(WITHOUT CAPITAL SUBSIDY)

Under Agriculture Infrastructure Fund
scheme

Submitted to



Department of Agriculture,
Cooperation & Farmers Welfare

Submitted by



Knowledge Partner
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CREDIT CITATION

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Our sincere thanks are also due to all others who directly or indirectly helped NABCONS in preparation of this document.

**DPR Template for projects under Agriculture Infrastructure Fund¹****1. Details of the Applicant**

SN	Particulars	Details
i.	Name of the Applicant	
ii.	Constitution Legal Status of Applicant : (i.e. Govt. organization, NGO, Co-operative society, Company, partnership firm, proprietorship firm, Individual, FPO, Self Help Group, etc.)	To be filled by the applicant
iii.	Registration No. of Applicant/CIN	
iv.	GST No. of Applicant	
v.	Date of Establishment/ Incorporation	
vi.	Address of the registered office	
vii.	PAN No. of Applicant	
viii.	Address of the proposed site	
ix.	District	
x.	State	
xi.	Pin Code	
xii.	Whether lead promoter belong to SC/ ST/ Woman/Minority	

*Details of associates/ allied firms, if any may also be provided.

2. Contact details of the Applicant/Promoter(s)/Partner(s)/Directors(s)/ Members including addresses, telephone, mobile, fax, e-mail, website, PAN etc.

SN	Name of Applicant/ Promoter(s)/ Partner(s)/ Director(s)/ Members	Address	Telephone No.	Mobile No.	E-mail Id	Any other details
1						
2		To be filled by the applicant				

¹ This template is prepared keeping in mind the essential information required by the lending institutions to process the loan application. Different formats of table/description can be used for preparation of the DPR but all the required information in template should be included in the DPR.



3. Details of the Promoter(s)/Partner(s)/Directors(s)/ Members

S N	Name of Promoter(s) / Partner(s)/ Director(s)/ Members	Aadhaar No.	PAN No.	Academic and technical Qualification	Net Worth	DIN No.	Credit Rating	Date of Share holding	Partner profit sharing ratio
1	To be filled by the applicant								
2									

4. Relative experience of the Applicant/Promoter(s)/Partner(s)/Directors(s)/ Members

S N	Name of lead Applicant/Promoter(s)/Partner(s)/ Members of Applicant Entity	Detail of Experience	Details of Turnover (year-wise)	Supporting Document attached, if any (Yes/No)
1	To be filled by the applicant			
2				

5. Details of Existing Banking and Credit facilities of the Applicant/ Promoter(s)/ Partner(s)/ Directors(s)

S N	Types of Facility	Name of Bank and Branch	Limits	Outstanding as on dd/mm/yyyy	Securities	Rate of interest	Repayment terms	Purpose
1	Cash Credit							
2	Term Loan			To be filled by the applicant				
3	Others							

*Information pertaining to credit rating (internal /external) may also be shared along with the aforementioned information

Details of GST Returns submitted, if any or status of registration

6. Project Details

- a. Objective of the proposed project: SPICE PROCESSING UNIT
- b. Category of proposed infrastructure as per the Scheme:

SN	Component	Mark Tick (✓)
1	Supply chain	
2	Warehouses	
3	Silos	
4	Pack Houses	
5	Assaying Unit	
6	Sorting & Grading unit	
7	Cold Chain	
8	Logistics facilities	
9	Primary Processing Centres	✓
10	Ripening Chambers	
11	Organic input production	
12	Bio stimulant production unit	
13	Infrastructure for Smart and precision agriculture	
14	Projects identified for providing supply chain infrastructure for clusters of crops including export clusters.	
15	Projects promoted by Central/State/Local Governments or their agencies under PPP for building community farming assets or post-harvest management projects.	
16	Any other (please Specify)	

- c. Type of Operating Model (Rental, PPP, captive, Lease, Franchise etc.) and details

7. Land Details:

SN	Particulars	Details
1	Land Area	3000 sq ft (land considered as Owned/ Leased)
2	Status of Legal title & Possession	
3	if leased, Period of lease	
4	Coordinates of location	



SN	Particulars	Details
5	Details of CLU	To be filled by the applicant, some sample details are added
6	Connectivity to roads I. State Highway (in Km.) II. National Highway (in Km.)	XX Km from YY road
7	Availability of Water	Borewell and water pipe line
8	Availability of Power	State electricity board connection

8. Proposed facilities:

I. Details of proposed facility

S N	Type of facilities proposed to be created	No. of Units	Total Capacity [MT, Ltrs, MT/Hr.	No. of Days of operation
1	Warehouse			
2	Silos			
3	Pack-house			
4	CA Store			
5	Cold store			
6	Frozen store			
7	Pre-cooling Chambers			
8	Processing unit, Weighing, Packing facility [Modify as per actual]	2 Unit	225 KG Per Hour	225 days
9	Ripening Chambers			
10	IQF			
11	Blast Freezing			
12	Refrigerated Vehicles/ Reefer vans			
13	Mobile Pre-coolers			
14	Insulated/ non-insulated distribution vehicle			
15	Irradiation Facility			
16	Organic input production			
17	Bio Stimulant production units			
18	Others (Specify)			

- II. Details of technologies to be used/ alternative technologies Boiler, conveyor belt, hot air dryer
- III. Flow chart of activity process



9. Proposed Project Financials

a. Estimated Project cost details

S. No.	Particulars	Amount (Rs. In Lakhs)
1	Civil Works	12.00
2	Plant & Machineries	29.15
3	Working Capital Margin Money	5.35
4	Preliminary & Preoperative Expenses	0.50
	Project Cost	47.00

b. Plant and Machineries

A list of plant and machinery required for a chilly processing unit are as under:

S.No	Name of Machinery	Qty. in Nos	Price in Rs.
1	Washing and Cleaning Machine	1	300,000
2	Automatic spice grinding machine	2	420,000
3	Tray Dryer	2	600,000

S.No	Name of Machinery	Qty. in Nos	Price in Rs.
4	Digital weighing balance with accuracy of 0.01 grams	1	45,000
5	Weighing scale	2	50,000
6	Masala mixer machine	2	100,000
7	Powder filling and packaging machine	1	500,000
8	Lab testing equipment		200,000
9	Miscellaneous equipment		100,000
10	Electrical fittings		600,000
Total Machineries (Rs. In Lakhs)		29,15,000	
Total Cost of Plant and Machineries (Rs. In Lakhs)		29.15Lakhs	

c. Means of finance

S. No.	Source of Finance	Amount (Rs. In Lakhs)	%
1	*Promoter's Equity (10.00%)	4.7	10.00
2	Term Loan from Bank	36.95	78.62
3	Working Capital Margin Money	5.35	11.38
	Total	47.00	100

*The source of the owned funds and also the capacity of the promoter to support the project in the event of cost escalations due to time overruns should also be mentioned

d. Basic Revenue Projections (₹ in lakh)

SN	Item	Year 1	Year 2	Year 3	Year 4	Year 5
1	Turnover	461.09	504.51	543.32	582.13	620.94
2	Cost of Operations	451.01	487.62	524.39	561.32	598.43
3	Gross Profit	10.08	16.89	18.93	20.81	22.51
4	Earnings Before Interest, Tax, Depreciation and Amortization (EBITDA)	10.08	16.89	18.93	20.81	22.51
5	Profit before taxation	1.276	9.637	12.687	15.477	18.012
6	Profit after taxation	0.743	6.746	8.881	10.834	12.608

*CMA data to be provided along with projected balance sheet, profit & loss statements, covering entire period of repayment.

e. Financial Parameters

SN	Particulars	Details (Ratio/%)	Ref Page No. in DPR*
1	Internal Rate of Return (IRR) [(a) With and (b) without grant/ subsidy]	72.34%	-
2	Avg. Debt Service Coverage Ratio (DSCR)	1.40	-
3	Break Even Point (BEP)	54.28%	-
4	Debt-Equity Ratio (TTL/TNW)	2.45	-
5	Fixed Assets Coverage Ratio	1.55	-

f. Credit Facilities proposed

I. Fund Based

- a) Term Loan **36.95 lacs**
- b) Working Capital **5.35 lacs**
(Attach Assessment of working capital, if proposed)

II. Non Fund Based

Collateral Security proposed to be offered and its approximate value for the applicable cases. (To be furnished only in case of loans above Rs.2 crore)

g. Repayment Schedule (Including moratorium period) - 84 Months (Including 6 months Moratorium)

h. Details of Statutory/other approvals/registrations (status) Completed

10. Availability of Raw Materials in the Catchment Area - provide details such as Adequate Volume, Wider Mix of Raw Materials, Days of Operation in a Year along with supporting data. Based on this information feasibility/viability of the project should be justified.

Raw material is to be acquired from nearby farmer suppliers. The unit has agreed to procure the Spices input from the farmers at the prices agreed in the agreement.

The unit shall operate for 225 days in a year.

11. Details of the catchment area of the project

S.N	Location of the Catchment (Primary/Secondary)	Name Village/Dist/ APMC	Commodities to be sourced	Quantities to be sourced [MT] (per annum)
1				
2				

*DPR should comprised of detailed chapter on proposed catchment (production and supplystatistics).

12. Details of existing demand of the product and marketing arrangements (including e-trading), possibility of for leasing with FCI/CWC/SWC/e-commerce players / retailers for assured cash flows if any.

India spices have been playing a great role for strengthening the economic conditions since the ancient time period. Now at this moment of modernization and technological world, though the spice trade has changed in various bounds and leaps then too the role and importance still exists the same. With an estimated production volume of over three million metric tons, the state of Madhya Pradesh was the largest producer of spices across India in 2021. Rajasthan and Gujarat were the other major producers that year.

Spices play a vital role in Indian cuisine since long time. These are the some of the most valuable items of domestic as well as industrial kitchens. The role of spices is to increase the palatability and used as a flavoring, coloring, and preservative agents. Indian spices consists high amount of properties which are essential for good health. They are also world famous appetizers and digestives sources to maintain good health. These spices contains anti-oxidant properties and preservatives, hence are commonly used for making several types of chutnies, pickles and jams.

The processing and trade of spices has always been an important industry. After harvesting cleaning, drying, grinding and packaging are the major steps done during the processing of spices. The project aims to achieve grinding and packaging of different spices like Coriander, Cumin, Chilly, Turmeric, Ginger etc. as per the availability. For the sake of simplicity of calculations, the average price of raw material is taken to be Rs 150 per kg and the selling price is taken as Rs. 230 per kg.

13. Employment Generation projections

- a. Direct Employment: (Skilled and Semi-skilled): 15
- b. Contractual Employment with no. of days:
- c. Indirect Employment (specify): ...Packing material suppliers, Dealers and Service providers, Local vendors gets indirect employment from this project in rural areas.



Particulars	Nos.	Monthly Salary (Rs.)
Accountant cum cashier	1	18,900
Manager	1	22,000
Mechanic	2	11,000
Helpers	3	10,000
Labour	6	9,000
Security	2	8,400
Total salary for the year	10	1964400
Benefits @ 30%		589320
Total salary (Rs. In Lakh Per year)		25.54 lakhs

- Direct Employment: (Skilled and Semi-skilled) -15
- Contractual Employment with no. of days: 4 (300 days)
- Indirect Employment (specify): 25

14. Details of renewable/ alternate energy sources including solar energy, if any, proposed to be used for operating the project including inter alia, details of power generation.

15. Details of pollution issues (if any) and adoption of modern technology for reducing the carbon footprints and increasing operational efficiency:-

SN	Name of technology/item	Basic cost (Excluding taxes etc.)	How the technology will help in reducing carbon footprint and/or increase in operational efficiency
1			
2			



16. List of Manufacturers/ Suppliers of P&M (enclose quotations)

I certify that the information / contents as above furnished by me / us are true to the best of my / our knowledge and belief and nothing material has been concealed. In case, any information furnished in the application is found false, my / our application may be rejected out at any stage by the Bank and not eligible under Agriculture Infrastructure Fund scheme.

To be filled by the applicant

Date: _____

Signature of the Applicant

Place: _____

Annexures

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DPR without subsidy

Annexure 1 - Estimated cost of the project

Estimated cost of project		
Sr. No.	Particulars	Grand Total (in lakhs)
1	Land and site development	
(a)	Land (Lease in name of company)	-
	Total	-
2	Site Development	-
(a)	Total	-
3	Civil Work	
(a)	Civil Work	12.00
	Total	12.00
4	Plant and Machinery (indegenuous)	
(a)	Plant and Machinery	29.15
	Total	29.15
5	Miscellanoeous Fixed Assets	
(a)	Cost	-
6	Working Capital Margin	5.35
7	Preliminary Expenses	-
(a)	Security Deposit	-
	Total	-
8	Pre-Operative Expense (for 6 months upto the date od commencement of commercial production)	
(a)	Establishment and Travelling and Other Expenses	
(b)	Legal and Misc Expense	0.50
	Total	0.50
	Total Cost of Project	47.00

Annexure 2 - Means of Finance

Sr. No.	Item	Grand Total (in lakhs)
1	Promoter's equity	4.700
2	Eligible Assistance	-
3	Term Loan	36.95
4	CC Limit	5.35
	Total	47.00

Annexure 3 - Complete Estimate of Civil and Plant and Machinery

1. Civil Work		Units	Amt	
1	Civil work for building	1	1,200,000	
Total Civil Work			1,200,000	
2. Plant and machinery**		Units	Capacity	Amt
1	Washing and Cleaning Machine	1		300,000
2	Automatic spice grinding machine	2	200 kg/ hr	420,000
3	Tray Dryer	2		600,000
4	Digital weighing balance with accuracy of 0.01 grams	1		45,000
5	Weighing scale	2		50,000
6	Masala mixer machine	2		100,000
7	Powder filling and packaging machine	1		500,000
8	Lab testing equipment			200,000
9	Miscellaneous equipments			100,000
10	Electrical fittings			600,000
Total Plant and Machinery				2,915,000
Total fixed Assets				4,115,000

** The Plant and Machinery cost estimate is as per the available technology

Annexure 4 - Estimated Cost of Production

Sr. No	Description	Year ending March 31st								
		I	II	III	IV	V	VI	VII	VIII	IX
	No of Working months	12	12	12	12	12	12	12	12	12
	Input Spices	40,500,000	43,875,000	47,250,000	50,625,000	54,000,000	57,375,000	60,750,000	64,125,000	67,500,000
	Electricity expense	1,230,000	1,284,000	1,340,700	1,400,235	1,462,747	1,528,384	1,597,303	1,669,668	1,745,652
	Insurance cost @ 2% of purchase cost	82,300	86,415	90,736	95,273	100,036	105,038	110,290	115,804	121,595
	Running and Manintenance expense @1% of raw material	405,000	438,750	472,500	506,250	540,000	573,750	607,500	641,250	675,000
	Cost of Production	42,217,300	45,684,165	49,153,936	52,626,758	56,102,783	59,582,172	63,065,093	66,551,723	70,042,246
	Add: Opening Stock	-	415,125	864,844	1,349,156	1,868,063	2,421,563	1,833,469	1,210,781	553,500
	Less: Closing Stock	415,125	864,844	1,349,156	1,868,063	2,421,563	1,833,469	1,210,781	553,500	-
	Sub Total	41,802,175	45,234,446	48,669,623	52,107,851	55,549,283	60,170,266	63,687,781	67,209,004	70,595,746
	Administrative salaries and wages	2,553,720	2,732,480	2,923,754	3,128,417	3,347,406	3,581,724	3,832,445	4,100,716	4,387,766
	Packaging cahrges @ Rs. 2 per kg	400,950	434,363	467,775	501,188	534,600	579,488	613,575	647,663	680,400
	Selling charges @ Rs. 1 per kg	200,475	217,181	233,888	250,594	267,300	289,744	306,788	323,831	340,200
	Fixed charge for office	144,000	144,000	144,000	144,000	144,000	144,000	144,000	144,000	144,000
	Total	3,299,145	3,528,024	3,769,417	4,024,198	4,293,306	4,594,956	4,896,808	5,216,210	5,552,366
	Cost of Sales	45,101,320	48,762,470	52,439,040	56,132,049	59,842,589	64,765,221	68,584,588	72,425,214	76,148,113
	Expected sales revenue	46,109,250	50,451,204	54,332,066	58,212,928	62,093,790	67,307,473	71,266,736	75,225,999	79,028,460
	Gross Profit	1,007,930	1,688,734	1,893,026	2,080,879	2,251,201	2,542,252	2,682,148	2,800,785	2,880,347
	Financial expense									
	Interest on Term Loan	219,568	191,856	157,748	123,640	89,533	55,425	21,317	-	-
	Interest on WC Loan	53,500	53,500	53,500	53,500	53,500	53,500	53,500	53,500	53,500
	Total Financial expense	273,068	245,356	211,248	177,140	143,033	108,925	74,817	53,500	53,500
	Operating profits (PBT)	734,862	1,443,378	1,681,778	1,903,738	2,108,168	2,433,327	2,607,331	2,747,285	2,826,847
	Preliminary Expense	50,000	-	-	-	-	-	-	-	-
	depreciation	557,250	479,663	413,113	356,006	306,979	264,869	228,682	197,568	170,803
	Net Profit before Tax	127,612	963,716	1,268,665	1,547,732	1,801,189	2,168,458	2,378,649	2,549,717	2,656,045
	Income Tax	53,284	289,115	380,600	464,320	540,357	650,537	713,595	764,915	796,813
	Profits after Tax	74,328	674,601	888,066	1,083,413	1,260,832	1,517,920	1,665,054	1,784,802	1,859,231
	Distribution of profits (80%)	59,463	539,681	710,453	866,730	1,008,666	1,214,336	1,332,044	1,427,842	1,487,385
	Profit transfer to balance sheet	14,866	134,920	177,613	216,683	252,166	303,584	333,011	356,960	371,846

1. Electricity are semi-fixed cost. Rs. 150,000 pa is fixed, balance is variable at Rs. 14 per unit usage. The electricity expense is taken on hypothetical basis. This would change depending upon the machinery load and capacity.

2. Electricity usage in units is given below

Usage in units	90000	94500	99225	104186.25	109395.5625	114865.3406	120608.6077	126639.038	132970.9899
Variable cost	1080000	1134000	1190700	1250235	1312746.75	1378384.088	1447303.292	1519668.456	1595651.879

3. It is assumed that insurance cost is 2% of purchase price and this will increase 5% annually

4. Closing stock is valued at Rs 205 (avg cost)

5. Input cost of spices would increase 10% per annum while 5% of input is wasted.

6. The total working Capital requirement is assumed to be Rs. 21.40. 25% of the required amount is financed through bank and rest is owner contribution

Annexure 5- Projected balance sheet

Projected Balance sheet

Sr. No	Description	Year ending March 31st								
		I	II	III	IV	V	VI	VII	VIII	IX
A	Asset									
1	Fixed Capital expenditure									
	Gross Block	4,115,000.00	3,557,750.00	3,078,087.50	2,664,974.38	2,308,968.22	2,001,988.99	1,737,120.04	1,508,438.49	1,310,870.53
	Less- Depreciation	557,250.00	479,662.50	413,113.13	356,006.16	306,979.23	264,868.95	228,681.55	197,567.96	170,802.55
	Net Block	3,557,750.00	3,078,087.50	2,664,974.38	2,308,968.22	2,001,988.99	1,737,120.04	1,508,438.49	1,310,870.53	1,140,067.99
2	Sundry debtors	9,221,850.00	10,090,241	10,866,413	11,642,586	12,418,758	13,461,495	14,253,347	15,045,200	15,805,692
3	Closing stock	415,125.00	864,844	1,349,156	1,868,063	2,421,563	1,833,469	1,210,781	553,500	-
4	Cash/ bank balance	3,507,409.87	3,258,046	3,042,451	2,774,225	2,457,862	3,025,835	3,872,526	5,315,108	6,673,390
	Total assets	16,702,134.87	17,291,219	17,922,995	18,593,841	19,300,171	20,057,919	20,845,093	22,224,678	23,619,150
B	Liabilities									
1	Capital	470,000.00	484,866	619,786	797,399	1,014,081	1,266,248	1,569,832	1,902,843	2,259,803
	Add- Profit	14,865.64	134,920	177,613	216,683	252,166	303,584	333,011	356,960	371,846
	Less- Drawings	-	-	-	-	-	-	-	-	-
	Closing capital	484,865.64	619,786	797,399	1,014,081	1,266,248	1,569,832	1,902,843	2,259,803	2,631,650
2	Term Loan	3,410,769.23	2,842,308	2,273,846	1,705,385	1,136,923	568,462	-	-	-
3	Working capital	535,000.00	535,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000
4	Creditors	12,271,500.00	13,294,125	14,316,750	15,339,375	16,362,000	17,384,625	18,407,250	19,429,875	20,452,500
	Total liabilities	16,702,134.87	17,291,219	17,922,995	18,593,841	19,300,171	20,057,919	20,845,093	22,224,678	23,619,150
	Current Ratio									
	Current Assets	13,144,385	14,213,131	15,258,021	16,284,873	17,298,182	18,320,799	19,336,654	20,913,808	22,479,082
	Current Liabilities	12,806,500	13,829,125	14,851,750	15,874,375	16,897,000	17,919,625	18,942,250	19,964,875	20,987,500
	Ratio	1.026383858	1.02776792	1.027355077	1.025859153	1.023742799	1.022387386	1.020821415	1.047530116	1.071069999
	Average				1.032546413					
	Debt Equity ratio									
	Debt	3,945,769	3,377,308	2,808,846	2,240,385	1,671,923	1,103,462	535,000	535,000	535,000
	Equity	484,866	619,786	797,399	1,014,081	1,266,248	1,569,832	1,902,843	2,259,803	2,631,650
	Ratio	8.137861062	5.449152704	3.522510347	2.209274731	1.320375715	0.702916936	0.281158256	0.236746263	0.203294542
	Average				2.451476728					
	Fixed asset coverage ratio									
	Fixed assets	3,557,750	3,078,088	2,664,974	2,308,968	2,001,989	1,737,120	1,508,438	1,310,871	1,140,068
	Debt	3,945,769	3,377,308	2,808,846	2,240,385	1,671,923	1,103,462	535,000	535,000	535,000
	ratio	0.901661955	0.911402745	0.948779046	1.030612424	1.197416923	1.574246113	2.819511201	2.450225294	2.130968197
	Average				1.5516471					
	Debt service coverage ratio									
	Interest on loan (TL + WC)	273,068	245,356	211,248	177,140	143,033	108,925	74,817	53,500	53,500
	Instalment of loan	819,231	1,103,462	1,103,462	1,103,462	1,103,462	1,103,462	1,103,462	535,000	535,000
	Total Interest	1,092,299	1,348,817	1,314,710	1,280,602	1,246,494	1,212,387	1,178,279	588,500	588,500
	Net operating income	1,007,930	1,688,734	1,893,026	2,080,879	2,251,201	2,542,252	2,682,148	2,800,785	2,880,347
	Ratio	0.922760128	1.252010903	1.439881819	1.624922421	1.806026088	2.09689862	2.276327018	4.759193342	4.894387641
	Average				1.409120272					

1. assumed that 90 days of purchases are average creditors maintained
2. assumed that 60 days of sales are average debtors maintained by the business

Annexure 8 - Details of Manpower

Details of Manpower

S. No.	Designation	In no.	Salary per person per month	Annual cost
i.	Accountant cum cashier	1	18,900	226,800
ii.	Manager	1	22,000	264,000
iii.	Mechanic	2	11,000	264,000
iv.	Helpers	3	10,000	360,000
v.	Labour	6	9,000	648,000
vi.	Security	2	8,400	201,600
Total				1,964,400
Add: benefits @ 30%				589,320
Total				2,553,720

Total annual wages	2,553,720
Annual increase in wages	7%
Total manpower	15

Annexure 9 - Computation of Depreciation

Computation of Depreciation

Sr. No.	Particulars	Civil work	Plant and Machinery	Misc Fixed Asset	Amount in lakhs
i.	Cost	1,200,000	2,915,000	-	41.15
ii.	Pre operatives	-	-	-	0.00
iii.	Contingencies	-	-	-	0.00
	Total				41.15

	Rates of Depreciation	10%	15%	10%	Total depreciation for the year
Year 1		120,000.00	437,250.00	-	557,250.00
Year 2		108,000.00	371,662.50	-	479,662.50
Year 3		97,200.00	315,913.13	-	413,113.13
Year 4		87,480.00	268,526.16	-	356,006.16
Year 5		78,732.00	228,247.23	-	306,979.23
Year 6		70,858.80	194,010.15	-	264,868.95
Year 7		63,772.92	164,908.63	-	228,681.55
Year 8		57,395.63	140,172.33	-	197,567.96
Year 9		51,656.07	119,146.48	-	170,802.55

Annexure 10 - Calculation of Income tax

Calculation of Income Tax

Particulars	Year ending March 31st								
	I	II	III	IV	V	VI	VII	VIII	IX
Net profit before tax	734,862	1,443,378	1,681,778	1,903,738	2,108,168	2,433,327	2,607,331	2,747,285	2,826,847
Add- dep on SLM	-	-	-	-	-	-	-	-	-
Sub total	734,862	1,443,378	1,681,778	1,903,738	2,108,168	2,433,327	2,607,331	2,747,285	2,826,847
Less- Dep on WDV	557,250	479,663	413,113	356,006	306,979	264,869	228,682	197,568	170,803
Sub total	177,612	963,716	1,268,665	1,547,732	1,801,189	2,168,458	2,378,649	2,549,717	2,656,045
Less - Deductions	-	-	-	-	-	-	-	-	-
Taxable profits	177,612	963,716	1,268,665	1,547,732	1,801,189	2,168,458	2,378,649	2,549,717	2,656,045
Income tax @30%	53,284	289,115	380,600	464,320	540,357	650,537	713,595	764,915	796,813

Annexure 11- Break even analysis (At maximum capacity utilization)

Break even capacity at maximum capacity utilization

Sales		65,870,357
Variable cost		
- Running and maintenance cost	9,880,554	
- Interest on Working capital	53,500	
- electricity expense	1,595,652	11,529,705
Contribution		54,340,652
Less: Fixed costs		
Wages and salaries		2,553,720
Depreciation		557,250
Fixed charges for office		144,000
Electricity fixed charge		150,000
Insurance cost		82,300
Interest on TL		219,568
Fixed cost		3,706,838

Particulars	Rs. per kg
Sales price per kg	230
Variable costs	
Input chilly cost	200
Electricity cost	4.57
Running and maintenance	2
Packing charges	2
Selling expense	1
Interest on working capital	0.16
Contribution per unit	20.27005291
BEP in kgs	182,872.65
Total BEP %	54.18%

Break-even point is the condition when an entity generate sufficient revenue that it can meet its fixed expense after deducting any variable expense, i.e., the point where contribution is equal to the fixed expense.

For the first year of operation the break-even capacity comes at 54.18% capacity, it is because of the fact that in the Initial year the fixed expense of consultancy for project is taken in to consideration for calculation of BEP. considering our operational capacity in year 1 to be 60% which is more than the BEP, hence we can conclude that the project is sound enough to cover its fixed expense.

Annexure 13 - Repayment schedule

Repayment schedule

Amount of Loan (in lakhs)	36.9500
Rate of interest	6.00%
Moratorium period	6 months

Year	Quarter	Balance outstanding	Principal instalment	Interest
1	1	36.95	0	0.55425
	2	36.95	0	0.55425
	3	36.95	1.421153846	0.55425
	4	35.52884615	1.421153846	0.53293
2	1	34.10769231	1.421153846	0.51162
	2	32.68653846	1.421153846	0.4903
	3	31.26538462	1.421153846	0.46898
	4	29.84423077	1.421153846	0.44766
3	1	28.42307692	1.421153846	0.42635
	2	27.00192308	1.421153846	0.40503
	3	25.58076923	1.421153846	0.38371
	4	24.15961538	1.421153846	0.36239
4	1	22.73846154	1.421153846	0.34108
	2	21.31730769	1.421153846	0.31976
	3	19.89615385	1.421153846	0.29844
	4	18.475	1.421153846	0.27713
5	1	17.05384615	1.421153846	0.25581
	2	15.63269231	1.421153846	0.23449
	3	14.21153846	1.421153846	0.21317
	4	12.79038462	1.421153846	0.19186
6	1	11.36923077	1.421153846	0.17054
	2	9.948076923	1.421153846	0.14922
	3	8.526923077	1.421153846	0.1279
	4	7.105769231	1.421153846	0.10659
7	1	5.684615385	1.421153846	0.08527
	2	4.263461538	1.421153846	0.06395
	3	2.842307692	1.421153846	0.04263
	4	1.421153846	1.421	0.02132

Annexure 14 - Cash flow statement

Particulars	0	I	II	III	IV	V	VI	VII	VIII	IX
opening balance	535,000	535,000	3,507,410	3,258,046	3,042,451	2,774,225	2,457,862	3,025,835	3,872,526	5,315,108
Add: Capital	470,000	-	-	-	-	-	-	-	-	-
Add: Loan disbursement	3,695,000	-	-	-	-	-	-	-	-	-
Less: Purchase of asset	4,115,000	-	-	-	-	-	-	-	-	-
Less: Land purchase	-	-	-	-	-	-	-	-	-	-
Add: Sales realizations	-	36,887,400	40,360,964	43,465,653	46,570,343	49,675,032	53,845,979	57,013,389	60,180,800	63,222,768
Less: Payment made to creditors of previous year	-	-	12,271,500	13,294,125	14,316,750	15,339,375	16,362,000	17,384,625	18,407,250	19,429,875
Add: Receipts from debtors of previous year	-	-	9,221,850	10,090,241	10,866,413	11,642,586	12,418,758	13,461,495	14,253,347	15,045,200
Less: Payments made for current year purchase	-	33,244,945	35,918,064	38,606,602	41,311,581	44,034,089	46,792,503	49,554,651	52,338,058	55,142,113
Less: Pre incorporation expense	50,000	-	-	-	-	-	-	-	-	-
Less: Interest payments	-	273,068	245,356	211,248	177,140	143,033	108,925	74,817	53,500	53,500
	535,000	3,904,387	4,655,303	4,701,965	4,673,736	4,575,346	5,459,170	6,486,626	7,507,865	8,957,588
Less: Income tax	-	53,284	289,115	380,600	464,320	540,357	650,537	713,595	764,915	796,813
	-	3,851,103	4,366,189	4,321,365	4,209,416	4,034,989	4,808,633	5,773,031	6,742,950	8,160,775
Less: Distributions made from profits	-	59,463	539,681	710,453	866,730	1,008,666	1,214,336	1,332,044	1,427,842	1,487,385
	-	3,791,641	3,826,508	3,610,913	3,342,686	3,026,323	3,594,297	4,440,987	5,315,108	6,673,390
Less: Principal repayment of loan	-	284,231	568,462	568,462	568,462	568,462	568,462	568,462	-	-
Closing cash balance	535,000	3,507,410	3,258,046	3,042,451	2,774,225	2,457,862	3,025,835	3,872,526	5,315,108	6,673,390

Sales Budget

Particulars	Year ending March 31st								
	I	II	III	IV	V	VI	VII	VIII	IX
Estimated occupational capacity	60%	65%	70%	75%	80%	85%	90%	95%	100%
Production capacity (kgs)	202,500	219,375	236,250	253,125	270,000	286,875	303,750	320,625	337,500
Input required to produce above output (kgs)	270,000	292,500	315,000	337,500	360,000	382,500	405,000	427,500	450,000
Sales (kgs)	200,475	217,181	233,888	250,594	267,300	289,744	306,788	323,831	340,200
Revenue in Rs.	46,109,250	50,451,204	54,332,066	58,212,928	62,093,790	67,307,473	71,266,736	75,225,999	79,028,460

Estimation of Production capacity

Per annum capacity in kgs 337,500 Plant size is assumed to be 337.5 MT per annum

Operational days 225 dys

Products	Production at 100% capacity	Sales prices per kg	Purchase price per kg
Output	337,500	230.0	150.0

Production Budget

Particulars	Year ending March 31st								
	I	II	III	IV	V	VI	VII	VIII	IX
Opening Stock	-	2,025	4,219	6,581	9,113	11,813	8,944	5,906	2,700
Production	202,500	219,375	236,250	253,125	270,000	286,875	303,750	320,625	337,500
Sales	200,475	217,181	233,888	250,594	267,300	289,744	306,788	323,831	340,200
Closing Stock	2,025	4,219	6,581	9,113	11,813	8,944	5,906	2,700	-

Assumed input output ratio is 0.75:1,i.e., to say that 1 kg of rhisomes produce 750 grams of spice powder
assumed that the output is sold in wholesale market

S. no. Assumptions

- 1 Electricity are semi-fixed cost. Rs. 150,000 pa is fixed, balance is variable at Rs. 14 per unit usage
- 2 Electricity usage in units is given below

Usage in units	90000	94500	99225	104186.25	109395.5625	114865.3406	120608.6077	126639.038	132970.9899
Variable cost	1260000	1323000	1389150	1458607.5	1531537.875	1608114.769	1688520.507	1772946.533	1861593.859

- 3 Assumed that 90 days of purchases are average creditors maintained
- 4 Assumed that 60 days of sales are average debtors maintained by the business
- 5 It is assumed that insurance cost is 2% of purchase price and this will increase 5% annually



(Wholly – owned subsidiary of NABARD)

- i. More than 200 Full-time Consultants**
- ii. Backed by 400 domain specialists**
- iii. Executed over 2500 assignments across India and in African and Asian Continents**
- iv. Core Competencies**
 - a. Preparation/Appraisals of DPRs**
 - b. Techno-feasibility study**
 - c. Baseline Surveys**
 - d. Project Management Consultancy**
 - e. Climate Issues and Green Funds**
 - f. Monitoring and Evaluation**
 - g. Impact Assessment Studies**
 - h. Third Party Monitoring of Infrastructural Projects**
 - i. Skills for Livelihood**
 - j. Capacity Building**
 - k. Accreditation of Rural Godowns**
 - l. Climate Change Issues**
 - m. CSR Facilitation**
 - n. IT in Rural Banks**

Pro - Services Rendered by NABCONS

No.	Name of Services	Description
1	Project Management Consultancy (PMC)	Entails provision of end-to-end solution, including assistance in statutory approvals, bid process management, issuing and evaluating tender documents and supervision over infrastructure projects like Mega Food Park, Rural Godowns, Cold Storage, etc. funded by Govt. or private entities.
2	Preparation of Detailed Project Report / Conduct / Techno-economic Feasibility	For various activities under agriculture, horticulture, forestry, fisheries, irrigation, animal husbandry, food processing activities, agri-infrastructure, climate issues, etc.
3	Third Party Monitoring (TPM) of Infrastructure Projects	TPM of various Govt.-funded infra projects to assess the level of compliance followed in execution. This also covers socio-economic impact evaluation.
4	Monitoring and Evaluation (M&E)	M & E is undertaken for various developmental schemes of Govt. of India and State Govts in the areas of agriculture, animal husbandry and all other socio-development sectors.
5	Training and Capacity Building	Training is imparted on forward markets, agriculture market infrastructure, rural godown, agri-financing, treasury and investment management for banks, etc.
6	Studies / Baseline Surveys	Baseline surveys are taken up for measuring impact of community investment made by public and private sector Companies. Studies are conduct on women, children, disadvantaged groups / regions, etc.
7	Livelihood Mapping	Livelihood mapping and analysis is done for identification of potential activities to be taken up by SHGs
8	International Visitors' Programme / International Exposure Visits	Entails organizing study tours / exposure for the visiting foreign delegates to their areas of interest such as watershed, micro-finance, fin-inclusion, cooperatives, projects appraisal, agro-processing, post-harvest technologies, farmers' clubs, etc.
9	Consultancy on Banking and Finance	Designing and execution of priority sector strategies, advisory services on Treasury and Investment Management for Banks, preparation of IT Policy, etc.
10	Transaction advisory	Transaction Advisory for setting up of Agri-mall, Silos & Cold Storages
11	Skills for Livelihood	Skilling of rural BPL youth and placement in the formal sector, monitoring skill initiatives of MORD, Govt. of India, facilitating access to credit for trainees, etc.
12	Accreditation of Godowns	Engaged by WDRA as Accreditation Agency for accrediting rural godowns.