



MODEL DPR

ESTABLISHMENT OF CHILLY 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.

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.



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				
2		To be filled by the applicant		

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: CHILLY 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

To be filled by the applicant, some sample details are added

7. Land Details:

SN	Particulars	Details
1	Land Area	5000 sq ft (land considered as Owned/ Leased)
2	Status of Legal title & Possession	
3	if leased, Period of lease	

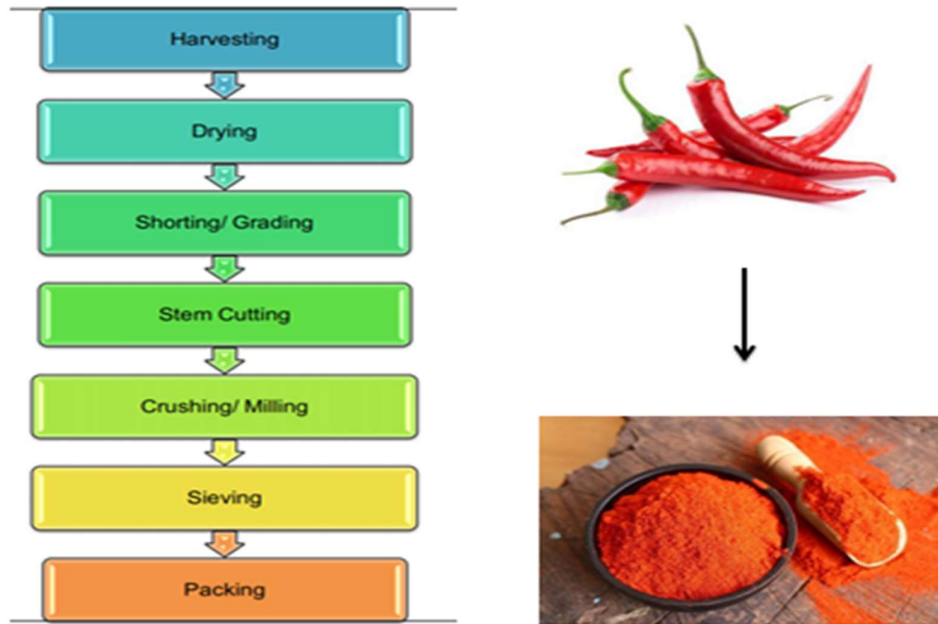
SN	Particulars	Details
4	Coordinates of location	
5	Details of CLU	
6	Connectivity to roads I. State Highway (in Km.) II. National Highway (in Km.)	XX Km from YY road
7	Availability of Water	Borewell and water pipe line
8	Availability of Power	State electricity board connection

8. Proposed facilities:

I. Details of proposed facility

S N	Type of facilities proposed to be created	No. Units	of	Total Capacity [MT, MT/Hr. Ltrs,	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		300 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	16.00
2	Plant & Machineries	16.05
3	Working Capital Margin Money	5.35
4	Preliminary & Preoperative Expenses	0.60
	Project Cost	38.00

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	Automatic chilly grinding machine	1	670,000
2	Digital weighing scale	1	25,000
3	Packaging machine	1	

S.No	Name of Machinery	Qty. in Nos	Price in Rs.
			250,000
4	Sieving machine	1	125,000
5	Dryer	1	65,000
6	Quality testing equipment	1	100,000
7	Washing tank	1	20,000
8	Grading machine	1	150,000
9	Miscellaneous	1	200,000
Total Machineries (Rs. In Lakhs)			16,05,000
Total Cost of Plant and Machineries (Rs. In Lakhs)			16.05 Lakhs

c. Means of finance

S. No.	Source of Finance	Amount (Rs. Lakhs)	In%
1	*Promoter's Equity (10.00%)	3.8	10.00
2	Term Loan from Bank	28.85	75.92
3	Working Capital Margin Money	5.35	14.08
	Total	38.00	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	481.14	573.36	617.46	661.57	705.67
2	Cost of Operations	466.30	550.18	591.72	633.41	675.26
3	Gross Profit	14.84	23.18	25.74	28.16	30.41
4	Earnings Before Interest, Depreciation and Amortization (EBITDA)	14.84	23.18	25.74	28.16	30.41
5	Profit before taxation	7.981	17.661	20.942	24.011	26.869
6	Profit after taxation	5.407	12.363	14.659	16.808	18.808



*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]	76.84%	-
2	Avg. Debt Service Coverage Ratio (DSCR)	3.4	-
3	Break Even Point (BEP)	47.23%	-
4	Debt-Equity Ratio (TTL/TNW)	1.74	-
5	Fixed Assets Coverage Ratio	1.41	-

f. Credit Facilities proposed

I. Fund Based

- a) Term Loan **28.85 lacs**
- b) Working Capital **5.35lacs**
(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 chillies 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 supply statistics).

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 being the world's largest producer, consumer and exporter of chillies has the largest area of 7.33 lakh ha (18.11 lakh acres) accounting for 42.81% of world area. Chilli powder is the dried, pulverized fruit of one or more varieties of chilli pepper, sometimes with the addition of other spices (where it is also sometimes known as chilli powder blend or chilli seasoning mix). It is used as a spice (or spice blend) to add pungency (piquancy) and flavor to culinary dishes.

Capsaicin in red chillies is known to reduce inflammation and act as natural pain relief remedy. It binds with nerve endings that sense pain to reduce the feeling of pain. Capsaicin also helps reduce pain and inflammation in the muscles and joints of the lower back. Red chillies are good for digestive health as they help increase the secretion of digestive juices which prevent problems such as constipation and gas. Red chillies are also used as a preservative due to their antibacterial and antifungal properties, which also helps in reducing harmful bacteria. This can help in keeping the intestines healthy.

13. Employment Generation projections

- a. Direct Employment: (Skilled and Semi-skilled): 12
- 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	22000
Mechanic	4	10000
Helper	1	15000
Labour	4	12000



Particulars	Nos.	Monthly Salary (Rs.)
Security	2	10500
Total salary for the year	10	1752000
Benefits @ 30%		525600
Total salary (Rs. In Lakh Per year)		22.77 lakhs

- Direct Employment: (Skilled and Semi-skilled) -12
- 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.

50% of power requirement will be fulfilled by renewable energy

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	16.00
	Total	16.00
4	Plant and Machinery (indegenuous)	
(a)	Plant and Machinery	16.05
	Total	16.05
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	0.60
	Total	0.60
	Total Cost of Project	38.00

Annexure 2 - Means of Finance

Sr. No.	Item	Grand Total (in lakhs)
1	Promoter's equity	3.800
2	Eligible Assistance	-
3	Term Loan	28.850
4	CC Limit	5.35
	Total	38.00

Annexure 3 - Complete Estimate of Civil and Plant and Machinery

1. Civil Work		Units	Amt	
1	Civil work for building	1	1,600,000	
Total Civil Work			1,600,000	
2. Plant and machinery**		Units	Capacity	Amt
1	Automatic chilly gringing machine	2	upto 300 kg per hr	670,000
2	Digital weighing scale	1		25,000
3	Packaging machine	1		250,000
4	Sieving machine	1		125,000
5	Dryer	1	upto 4000 kg per day	65,000
6	Quality testing equipments	1		100,000
7	Washing tank	1		20,000
8	Grading machine	1		150,000
9	Miscellaneous	1		200,000
Total Plant and Machinery				1,605,000
Total fixed Assets				3,205,000

** 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 chilly	36,936,000	44,015,400	47,401,200	50,787,000	54,172,800	57,558,600	60,944,400	64,330,200	67,716,000
	Electricity expense	1,270,000	1,326,000	1,384,800	1,446,540	1,511,367	1,579,435	1,650,907	1,725,952	1,804,750
	Insurance cost @ 2% of purchase cost	64,100	67,305	70,670	74,204	77,914	81,810	85,900	90,195	94,705
	Running and Manintenance expense @15% of raw material	5,540,400	6,602,310	7,110,180	7,618,050	8,125,920	8,633,790	9,141,660	9,649,530	10,157,400
	Cost of Production	43,810,500	52,011,015	55,966,850	59,925,794	63,888,001	67,853,635	71,822,867	75,795,878	79,772,855
	Add: Opening Stock	-	469,800	978,750	1,526,850	2,114,100	2,740,500	2,074,950	1,370,250	626,400
	Less: Closing Stock	469,800	978,750	1,526,850	2,114,100	2,740,500	2,074,950	1,370,250	626,400	-
	Sub Total	43,340,700	51,502,065	55,418,750	59,338,544	63,261,601	68,519,185	72,527,567	76,539,728	80,399,255
	Administrative salaries and wages	2,277,600	2,437,032	2,607,624	2,790,158	2,985,469	3,194,452	3,418,063	3,657,328	3,913,341
	Packaging cahrges @ Rs. 2 per kg	481,140	521,235	561,330	601,425	641,520	695,385	736,290	777,195	816,480
	Selling charges @ Rs. 1 per kg	320,760	347,490	374,220	400,950	427,680	463,590	490,860	518,130	544,320
	Fixed charge for office	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000	210,000
	Total	3,289,500	3,515,757	3,753,174	4,002,533	4,264,669	4,563,427	4,855,213	5,162,653	5,484,141
	Cost of Sales	46,630,200	55,017,822	59,171,924	63,341,077	67,526,270	73,082,612	77,382,781	81,702,381	85,883,396
	Expected sales revenue	48,114,000	57,335,850	61,746,300	66,156,750	70,567,200	76,492,350	80,991,900	85,491,450	89,812,800
	Gross Profit	1,483,800	2,318,028	2,574,376	2,815,673	3,040,930	3,409,738	3,609,119	3,789,069	3,929,404
	Financial expense									
	Interest on Term Loan	171,436	149,798	123,167	96,537	69,906	43,275	16,644	-	-
	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	224,936	203,298	176,667	150,037	123,406	96,775	70,144	53,500	53,500
	Operating profits (PBT)	1,258,864	2,114,730	2,397,708	2,665,637	2,917,524	3,312,963	3,538,975	3,735,569	3,875,904
	Preliminary Expense	60,000	-	-	-	-	-	-	-	-
	depreciation	400,750	348,638	303,542	264,491	230,649	201,300	175,829	153,706	134,477
	Net Profit before Tax	798,114	1,766,092	2,094,166	2,401,146	2,686,875	3,111,663	3,363,146	3,581,863	3,741,427
	Income Tax	257,434	529,828	628,250	720,344	806,063	933,499	1,008,944	1,074,559	1,122,428
	Profits after Tax	540,680	1,236,265	1,465,916	1,680,802	1,880,813	2,178,164	2,354,202	2,507,304	2,618,999
	Distribution of profits (80%)	432,544	989,012	1,172,733	1,344,642	1,504,650	1,742,531	1,883,362	2,005,843	2,095,199
	Profit transfer to balance sheet	108,136	247,253	293,183	336,160	376,163	435,633	470,840	501,461	523,800

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	80000	84000	88200	92610	97240.5	102102.525	107207.6513	112568.0338	118196.4355
Variable cost	1120000	1176000	1234800	1296540	1361367	1429435.35	1500907.118	1575952.473	1654750.097

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 145 (avg cost)

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

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	3,205,000.00	2,804,250.00	2,455,612.50	2,152,070.63	1,887,580.03	1,656,931.03	1,455,630.57	1,279,801.27	1,126,094.83
	Less- Depreciation	400,750.00	348,637.50	303,541.88	264,490.59	230,649.00	201,300.45	175,829.31	153,706.44	134,476.85
	Net Block	2,804,250.00	2,455,612.50	2,152,070.63	1,887,580.03	1,656,931.03	1,455,630.57	1,279,801.27	1,126,094.83	991,617.98
2	Sundry debtors	9,622,800.00	11,467,170	12,349,260	13,231,350	14,113,440	15,298,470	16,198,380	17,098,290	17,962,560
3	Closing stock	469,800.00	978,750	1,526,850	2,114,100	2,740,500	2,074,950	1,370,250	626,400	-
4	Cash/ bank balance	3,532,282.94	3,773,400	3,664,190	3,519,756	3,342,333	4,184,041	5,359,755	7,026,963	8,615,471
	Total assets	16,429,132.94	18,674,933	19,692,371	20,752,786	21,853,204	23,013,091	24,208,186	25,877,748	27,569,649
B	Liabilities									
1	Capital	380,000.00	488,136	735,389	1,028,572	1,364,733	1,740,895	2,176,528	2,647,368	3,148,829
	Add- Profit	108,136.02	247,253	293,183	336,160	376,163	435,633	470,840	501,461	523,800
	Less- Drawings	-	-	-	-	-	-	-	-	-
	Closing capital	488,136.02	735,389	1,028,572	1,364,733	1,740,895	2,176,528	2,647,368	3,148,829	3,672,629
2	Term Loan	2,663,076.92	2,219,231	1,775,385	1,331,538	887,692	443,846	-	-	-
3	Working capital	535,000.00	535,000	535,000	535,000	535,000	535,000	535,000	535,000	535,000
4	Creditors	12,742,920.00	15,185,313	16,353,414	17,521,515	18,689,616	19,857,717	21,025,818	22,193,919	23,362,020
	Total liabilities	16,429,132.94	18,674,933	19,692,371	20,752,786	21,853,204	23,013,091	24,208,186	25,877,748	27,569,649
	Current Ratio									
	Current Assets	13,624,883	16,219,320	17,540,300	18,865,206	20,196,273	21,557,461	22,928,385	24,751,653	26,578,031
	Current Liabilities	13,277,920	15,720,313	16,888,414	18,056,515	19,224,616	20,392,717	21,560,818	22,728,919	23,897,020
	Ratio	1.02613082	1.03174283	1.038599612	1.044786668	1.050542311	1.057115666	1.063428353	1.088993869	1.112190186
	Average				1.057058924					
	Debt Equity ratio									
	Debt	3,198,077	2,754,231	2,310,385	1,866,538	1,422,692	978,846	535,000	535,000	535,000
	Equity	488,136	735,389	1,028,572	1,364,733	1,740,895	2,176,528	2,647,368	3,148,829	3,672,629
	Ratio	6.551610201	3.745270768	2.246205484	1.367695264	0.81721879	0.449728256	0.202087474	0.169904417	0.145672211
	Average				1.74393254					
	Fixed asset coverage ratio									
	Fixed assets	2,804,250	2,455,613	2,152,071	1,887,580	1,656,931	1,455,631	1,279,801	1,126,095	991,618
	Debt	3,198,077	2,754,231	2,310,385	1,866,538	1,422,692	978,846	535,000	535,000	535,000
	ratio	0.876855081	0.891578341	0.931477214	1.011273044	1.164644679	1.487088208	2.3921519	2.104850147	1.853491554
	Average				1.41260113					
	Debt service coverage ratio									
	Interest on loan (TL + WC)	224,936	203,298	176,667	150,037	123,406	96,775	70,144	53,500	53,500
	Instalment of loan	756,923	978,846	978,846	978,846	978,846	978,846	978,846	535,000	535,000
	Total Interest	981,859	1,182,144	1,155,513	1,128,883	1,102,252	1,075,621	1,048,990	588,500	588,500
	Net operating income	1,483,800	2,318,028	2,574,376	2,815,673	3,040,930	3,409,738	3,609,119	3,789,069	3,929,404
	Ratio	1.511215483	1.960867329	2.227906118	2.494212481	2.758833977	3.170017778	3.440564714	6.438520813	6.67698244
	Average				3.408791237					

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	22,000	264,000
ii.	Mechanic	4	10,000	480,000
iii.	Helpers	1	15,000	180,000
iv.	Labour	4	12,000	576,000
v.	Security	2	10,500	252,000
Total				1,752,000
Add: benefits @ 30%				525,600
Total				2,277,600

Total annual wages	2,277,600
Annual increase in wages	7%
Total manpower	12

Annexure 9 - Computation of Depreciation

Computation of Depreciation

Sr. No.	Particulars	Civil work	Plant and Machinery	Misc Fixed Asset	Amount in lakhs
i.	Cost	1,600,000	1,605,000	-	32.05
ii.	Pre operatives	-	-	-	0.00
iii.	Contingencies	-	-	-	0.00
	Total				32.05

	Rates of Depreciation	10%	15%	10%	Total depreciation for the year
Year 1		160,000.00	240,750.00	-	400,750.00
Year 2		144,000.00	204,637.50	-	348,637.50
Year 3		129,600.00	173,941.88	-	303,541.88
Year 4		116,640.00	147,850.59	-	264,490.59
Year 5		104,976.00	125,673.00	-	230,649.00
Year 6		94,478.40	106,822.05	-	201,300.45
Year 7		85,030.56	90,798.75	-	175,829.31
Year 8		76,527.50	77,178.93	-	153,706.44
Year 9		68,874.75	65,602.09	-	134,476.85

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	1,258,864	2,114,730	2,397,708	2,665,637	2,917,524	3,312,963	3,538,975	3,735,569	3,875,904
Add- dep on SLM	-	-	-	-	-	-	-	-	-
Sub total	1,258,864	2,114,730	2,397,708	2,665,637	2,917,524	3,312,963	3,538,975	3,735,569	3,875,904
Less- Dep on WDV	400,750	348,638	303,542	264,491	230,649	201,300	175,829	153,706	134,477
Sub total	858,114	1,766,092	2,094,166	2,401,146	2,686,875	3,111,663	3,363,146	3,581,863	3,741,427
Less - Deductions	-	-	-	-	-	-	-	-	-
Taxable profits	858,114	1,766,092	2,094,166	2,401,146	2,686,875	3,111,663	3,363,146	3,581,863	3,741,427
Income tax @30%	257,434	529,828	628,250	720,344	806,063	933,499	1,008,944	1,074,559	1,122,428

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

Break even capacity at maximum capacity utilization

Sales		68,734,286
Variable cost		
- Running and maintenance cost	10,310,143	
- Interest on Working capital	53,500	
- electricity expense	1,654,750	12,018,393
Contribution		56,715,893
Less: Fixed costs		
Wages and salaries		2,277,600
Depreciation		400,750
Fixed charges for office		210,000
Electricity fixed charge		150,000
Insurance cost		64,100
Interest on TL		171,436
Fixed cost		3,273,886

Particulars	Rs. per kg
Sales price per kg	150
Variable costs	
Input chilly cost	114
Electricity cost	2.96
Running and maintenance	17.1
Packing charges	2
Selling expense	1
Interest on working capital	0.10
Contribution per unit	12.83796296
BEP in kgs	255,015.97
Total BEP %	47.23%

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 47.23% 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)	28.8500
Rate of interest	6.00%
Moratorium period	6 months

Year	Quarter	Balance outstanding	Principal instalment	Interest
1	1	28.85	0	0.43275
	2	28.85	0	0.43275
	3	28.85	1.109615385	0.43275
	4	27.74038462	1.109615385	0.41611
2	1	26.63076923	1.109615385	0.39946
	2	25.52115385	1.109615385	0.38282
	3	24.41153846	1.109615385	0.36617
	4	23.30192308	1.109615385	0.34953
3	1	22.19230769	1.109615385	0.33288
	2	21.08269231	1.109615385	0.31624
	3	19.97307692	1.109615385	0.2996
	4	18.86346154	1.109615385	0.28295
4	1	17.75384615	1.109615385	0.26631
	2	16.64423077	1.109615385	0.24966
	3	15.53461538	1.109615385	0.23302
	4	14.425	1.109615385	0.21638
5	1	13.31538462	1.109615385	0.19973
	2	12.20576923	1.109615385	0.18309
	3	11.09615385	1.109615385	0.16644
	4	9.986538462	1.109615385	0.1498
6	1	8.876923077	1.109615385	0.13315
	2	7.767307692	1.109615385	0.11651
	3	6.657692308	1.109615385	0.09987
	4	5.548076923	1.109615385	0.08322
7	1	4.438461538	1.109615385	0.06658
	2	3.328846154	1.109615385	0.04993
	3	2.219230769	1.109615385	0.03329
	4	1.109615385	1.110	0.01664

Annexure 14 - Cash flow statement

Particulars	0	I	II	III	IV	V	VI	VII	VIII	IX
opening balance	535,000	535,000	3,532,283	3,773,400	3,664,190	3,519,756	3,342,333	4,184,041	5,359,755	7,026,963
Add: Capital	380,000	-	-	-	-	-	-	-	-	-
Add: Loan disbursement	2,885,000	-	-	-	-	-	-	-	-	-
Less: Purchase of asset	3,205,000	-	-	-	-	-	-	-	-	-
Less: Land purchase	-	-	-	-	-	-	-	-	-	-
Add: Sales realizations	-	38,491,200	45,868,680	49,397,040	52,925,400	56,453,760	61,193,880	64,793,520	68,393,160	71,850,240
Less: Payment made to creditors of previos year	-	-	12,742,920	15,185,313	16,353,414	17,521,515	18,689,616	19,857,717	21,025,818	22,193,919
Add: Receipts from debtors of previos year	-	-	9,622,800	11,467,170	12,349,260	13,231,350	14,113,440	15,298,470	16,198,380	17,098,290
Less: Payments made for current year purchase	-	34,357,080	40,341,459	43,366,610	46,406,812	49,463,054	52,559,345	55,652,263	58,764,612	61,894,976
Less: Pre incorporation expense	60,000	-	-	-	-	-	-	-	-	-
Less: Interest payments	-	224,936	203,298	176,667	150,037	123,406	96,775	70,144	53,500	53,500
	535,000	4,444,184	5,736,086	5,909,019	6,028,588	6,096,891	7,303,917	8,695,907	10,107,366	11,833,099
Less: Income tax	-	257,434	529,828	628,250	720,344	806,063	933,499	1,008,944	1,074,559	1,122,428
	-	4,186,750	5,206,258	5,280,770	5,308,244	5,290,829	6,370,418	7,686,963	9,032,807	10,710,670
Less: Distrubutions made from profits	-	432,544	989,012	1,172,733	1,344,642	1,504,650	1,742,531	1,883,362	2,005,843	2,095,199
	-	3,754,206	4,217,246	4,108,036	3,963,602	3,786,179	4,627,887	5,803,601	7,026,963	8,615,471
Less: Principal repayment of loan	-	221,923	443,846	443,846	443,846	443,846	443,846	443,846	-	-
Closing cash balance	535,000	3,532,283	3,773,400	3,664,190	3,519,756	3,342,333	4,184,041	5,359,755	7,026,963	8,615,471

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	75000	78750	82687.5	86821.875	91162.96875	95721.11719	100507.173	100507.173	100507.173
Variable cost	1050000	1102500	1157625	1215506.25	1276281.563	1340095.641	1407100.423	1407100.423	1407100.423

- 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
- 6 Input cost of rhizomes would increase 10% per annum and there would be 5% wastage in processing on inputs



(Wholly – owned subsidiary of NABARD)

- i. More than 100 Full-time Consultants**
- ii. Backed by 400 domain specialists**
- iii. Executed over 1700 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.