

Submitted to

Submitted by



Department of Agriculture,
Cooperation & Farmers Welfare



Knowledge Partner
NABARD Consultancy Services
Corporate Office: 24 Rajendra Place,
7th Floor, NABARD Building, New Delhi
Registered Office: Plot No. C-24, G Block,
3rd Floor, NABARD Building, Bandra Kurla Complex,
Bandra East, Mumbai



MODEL DPR

**ESTABLISHMENT OF BIO STIMULANT PRODUCTION UNIT
(WITH CAPITAL SUBSIDY)**

Under Agriculture Infrastructure Fund Scheme

DISCLAIMER

This document has been prepared by NABARD Consultancy Services (NABCONS) Private Ltd for Department of Agriculture, Cooperation & Farmers Welfare as a professional Consultancy agency.

The views expressed and the conclusions arrived at in this document, including financial, are based on the data and information provided by various Government Departments and agencies, overall policy and approach of the State Government, discussions with the stakeholders at various levels as also the observations recorded by NABCONS during the study. Being only advisory in nature, such views and conclusions do not represent or reflect, in any way, the policy or views of NABARD.

NABCONS / NABARD accept no liability, financial or otherwise, or any deemed financial commitment whatsoever on any view, observation or conclusion expressed herein.

CREDIT CITATION

Preparation of this document has been possible with broad-based support and co-operation from various stakeholders. NABARD Consultancy Services hereby, sincerely and gratefully acknowledges the support and valuable co-operation extended by them.

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

To be filled by the applicant

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.)	
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						

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.

2								
---	--	--	--	--	--	--	--	--

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							
To be filled by the applicant								



2	Term Loan							
3	Others							

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

SAMPLE

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

7. Project Details

a. Objective of the proposed project: BIO FERTILIZER MANUFACTURING UNIT SETUP

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

8. Land Details:

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

SN	Particulars	Details
1	Land Area	0.23 Hectare
2	Status of Legal title & Possession	
3	if leased, Period of lease	
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 Openwell
8	Availability of Power	1. 05 kw RSEB 2. 15 kw Biogas Generator set 3. 15 kw Diesel Generator set

9. Proposed facilities:

I. Details of proposed facility

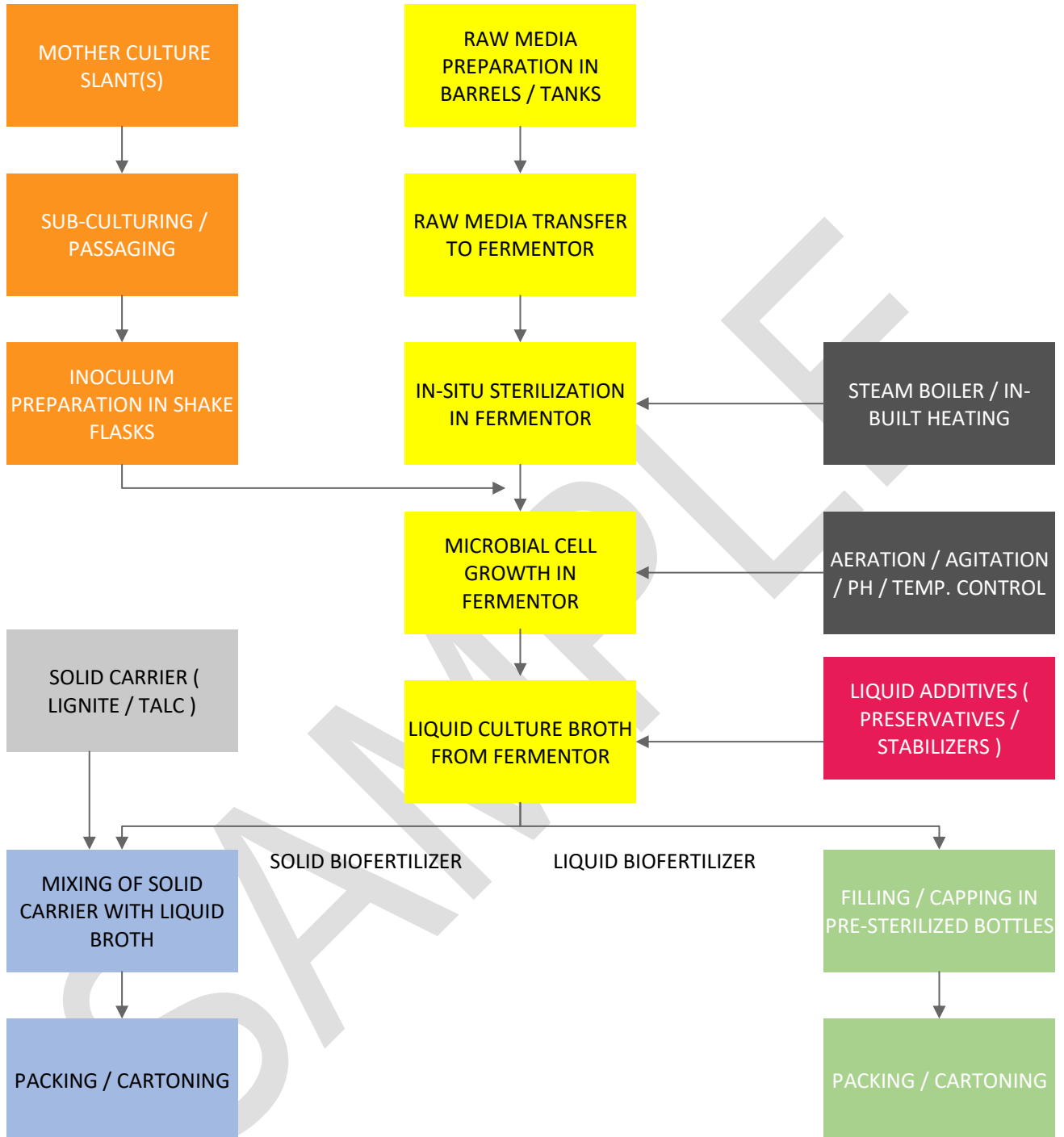
S N	Type of facilities proposed to be created	No. of Units	Total Capacity [MT, Ltrs, MT/Hr.	No. of Days of operation
1	Warehouse			
2	Silos			
3	Pack-house			
4	CA Store			
5	Cold store			
6	Frozen store			
7	Pre-cooling Chambers			
8	Assaying, Sorting, Grading, Waxing, Weighing, Packing facility [Modify as per actual]			
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	1 Unit	1 MT Per Hour	300 Days
18	Others (Specify)			

- II. Details of technologies to be used/ alternative technologies Granulator
- III. Flow chart of activity process

SAMPLE

BIOFERTILIZER MANUFACTURING PROCESS FLOW DIAGRAM



10. Proposed Project Financials

a. Estimated Project cost details

SN	Items	Amount (₹ in lakhs)
1	Site Development	0.0
2	Civil Works	7.50
3	Technical Civil Works/Errection etc.	
4	Plant & Machinery (P&M)	34.35
5	Fixed cost on power supply connection or/ and Generator set/solar system etc.	0.00
6	Common Utilities like Water/ETP/ STP, etc.	0.00
7	Pre-operative Expenses	0.00
8	Interest During Construction	0.00
9	Contingencies	0.00
10	Add other items not listed above	0.00
11	Working capital requirement	15.00
	Total Project Cost	56.85

b. Means of finance

SN	Items	Amount (₹ in lakhs)	Percentage (%)
1	*Promoter's Equity	6.85	12.05%
2	Capital Subsidy/ Benefit from other Central/ State Scheme		
3	Loan (TL + CC) (including backend capital subsidy taken at 20% amounting to Rs.7 lakhs)	50.00 (Including backend capital subsidy of Rs.7 lakh)	87.95%
	Total	56.85	100.00%

*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

c. Basic Revenue Projections (₹ in lakh)

SN	Item	Year 1	Year 2	Year 3	Year 4	Year 5
1	Turnover	864.00	924.48	989.19	1058.44	1132.53
2	Cost of Operations	801.78	867.84	933.98	1000.19	1085.62
3	Gross Profit	62.22	56.64	55.22	58.24	46.91
4	Earnings Before Interest, Tax, Depreciation and Amortization (EBITDA)	62.22	56.64	55.22	58.24	46.91
5	Profit before taxation	52.670	48.209	47.843	51.821	41.347
6	Profit after taxation	36.869	33.746	33.490	36.275	28.943

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

d. Financial Parameters

SN	Particulars	Details (Ratio/%)	Ref Page No. in DPR*
1	Internal Rate of Return (IRR) [(a) With and (b) without grant/ subsidy]	(a) 37.74 (b) 29.98	
2	Avg. Debt Service Coverage Ratio (DSCR)	2.95	
3	Break Even Point (BEP)	20.34%	
4	Debt-Equity Ratio (TTL/TNW)	0.620	
5	Fixed Assets Coverage Ratio	0.81	

e. Credit Facilities proposed

I. Fund Based

a) Term Loan

36.165 lacs

b) Working Capital

15.00 lacs

(Attach Assessment of working capital, if proposed)

II. Non Fund Based

f. 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) **7 Years**

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

11. 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.

Since, the process of making Bio fertilizer is using organic matters, we will have poultry farm attached with proposed bio fertilizer unit.

Slurry discharged from biogas plant, natural Amino, Humic and Seaweed extract are readily available raw materials near the plant all throughout the year.

12. 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	POULTRY FARMS BIO DEGRADABLE WASTE-PRIMARY	XYZ		6000 MT
2	AMINO, HUMIC, FULVIC AND SEAWEED	XYZ		1000 MT

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

13. 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.

Organic fertilizers are in high demands nowadays due to awareness of health and damage in soil quality from chemical fertilizer.

14. Employment Generation projections

- a. Direct Employment: (Skilled and Semi-skilled).....5.....
- 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.

15. 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, 15kw biogas generator sets will provide electricity to the plant.

16. 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 operationalefficiency
1			
2			

17. 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

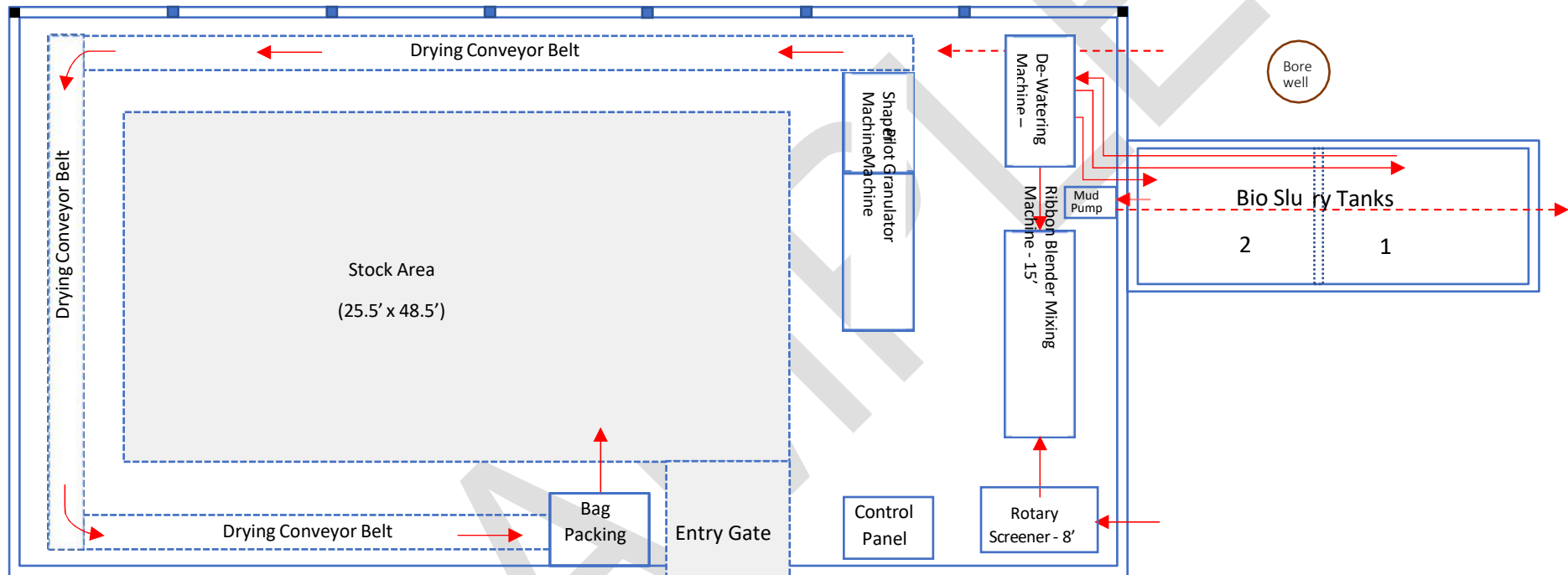
Date: _____

Signature of the Applicant

Place: _____

Annexures

PROPOSED OPERATIONAL FLOW CHART FOR BIO FERTILIZER PRODUCTION UNIT



Features & Specification

Item Name – Screw Press Dewatering Machine

Capacity: - 1700 to 2000 litter/hour



Specifications:-

I. Screw Press Dewatering system

Features	
Screw Press Dewatering Machine	<ul style="list-style-type: none"> The Screw Press Machine has a reasonable structure, small size, low speed, high efficiency. High degree of automation, energy saving, easy maintenance. The Machine has low moisture material, dehydration uniform, and continuous operation. Low power consumption, low investment, high efficiency, high returns. The structure is very compact which save a lot of space. Main part is used in Stainless Steel with is rust and corrosion free and which would last long
Motor Capacity	5 HP
Electrical Type	3 Ph
No. Of Motors	1
Gear Box	In line Helical
Input Moisture	80 to 90 %
Output Moisture	20 to 25 %
Input Capacity	1700 to 2000 Litter/hour
Shaft, Screw, Screen	Make by SS-304
Housing	Milled steel with epoxy painting
Flexible Pipe (Including)	5 meterx2 = 10 meter for 3" 3 meter for 4"
Sludge Suction Pump	2 HP Luby Make
Control Panel	NON PLC control panel
Dimension	7 x 2 x 4 (LBH In feet)

Quotation

Sr.No	DESCRIPTION	Rate	Qty.	AMOUNT (INR)
1	Screw Press Dewatering System	3,50,000	1	3,50,000
2	3" 10 meter flexible pipe	215	10	2150
3	4" 4 meter flexible pipe	390	4	1560

Terms of Material supply:

Prices: Ex works:	Ahmedabad
Payment terms:	50% advance with purchase order and balance 50% against Performa Invoice/ Proof of dispatch
Taxes	18 % GST Including for Dewatering Machine and 18% GST extra applicable for Additional flexible pipes..
Installation & Commissioning	Including
Accessories	Including
Transportation	Including
Warranty:	Manufacturing warranty will be 12 Months from the date of invoice.
Delivery Period:	3 to 4 weeks from purchase order with advance payment
Validity of offer:	15 days

Contents Table

Contents	Link
Annexure 1 - Estimated cost of the project	Ann 1!A1
Annexure 2 - Means of Finance	Ann 2!A1
Annexure 3 - Complete Estimate of Civil and Plant and Machinery	Ann 3!A1
Annexure 4 - Estimated Cost of Production	Ann 4!A1
Annexure 5- Projected balance sheet	Ann 5!A1
Annexure 6 - Requirement of Power and Fuel	Ann 6!A1
Annexure 7 - Details of Mnpower (Technical)	Ann 7!A1
Annexure 8 - Details of Mnpower (Administrative)	Ann 8!A1
Annexure 9 - Computation of Depreciation	Ann 9!A1
Annexure 10 - Calculation of Income tax	Ann 10!A1
Annexure 11- Break even analysis (At maximum capacity utilization)	Ann 11!A1
Annexure 13 - Repayment schedule	Ann 13!A1
Assumptions	Assumptions!A1
Cash flow statement	Cash flows!A1
Sales Budget	Budgets!A1

DPR with 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	7.50
	Total	7.50
4	Plant and Machinery (indegenuous)	
(a)	Plant and Machinery	34.35
	Total	34.35
5	Miscellanoeous Fixed Assets	
(a)	Cost	-
6	Working Capital Margin	15.00
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	-
	Total	-
9	E mandi expense	-
	Total Cost of Project	56.85

Annexure 2 - Means of Finance

Sr. No.	Item	Grand Total (in lakhs)
1	Promoter's equity	5.6850
2	Eligible Assistance	-
3	Term Loan	36.1650
4	CC Limit	15.00
	Total	56.85

Annexure 3 - Complete Estimate of Civil and Plant and Machinery

2. Plant and machinery	Units	Amt
1 Fertilizer Pilot Granulator Machine 3mm 1 Ton/Hr	1	650,000
2 Fertilizer Pilot Granulator Machine 2mm 0.5 Ton/Hr	1	350,000
3 fertilizer Shaper Machine	1	235,000
4 Fertilizer Ribbon Blender Mixer Machine	1	285,000
5 Fertilizer High-Speed Crusher Machine	1	175,000
6 Fertilizer Rotary Screener Machine	1	175,000
7 Fertilizer Conveyor Belt	4	300,000
8 Fertilizer Hopper 200kg	1	75,000
9 Fertilizer Weight Machine	1	30,000
10 Fertilizer Bag Closer Machine	1	5,000
11 Fertilizer Box Packing Machine	1	80,000
12 Fertilizer Dryer System	1	150,000
13 Fertilizer De-Watering Machine	1	355,000
14 QC and Testing equipments	1	275,000
15 Power Generator Set 15KVA	1	240,000
16 Control Panel	1	55,000
Total Plant and Machinery		3,435,000
Total fixed Assets		3,435,000

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	
	Purchase of raw material input	72,230,400	78,249,600	84,268,800	90,288,000	96,307,200	102,326,400	108,345,600	114,364,800	120,384,000	
	Electricity expense	1,070,000	1,118,000	1,168,400	1,221,320	1,276,886	1,335,230	1,396,492	1,460,816	1,528,357	
	Running and Manintenance expense @2.5% of procurement cost	1,805,760	1,956,240	2,106,720	2,257,200	2,407,680	2,558,160	2,708,640	2,859,120	3,009,600	
	Cost of Production	75,106,160	81,323,840	87,543,920	93,766,520	99,991,766	106,219,790	112,450,732	118,684,736	124,921,957	
	Add: Opening stock	-	673,920	1,404,000	2,190,240	3,032,640	2,134,080	1,179,360	168,480	-	
	Less: Closing stock	673,920	1,404,000	2,190,240	3,032,640	2,134,080	1,179,360	168,480	-	-	
	Sub Total	74,432,240	80,593,760	86,757,680	92,924,120	100,890,326	107,174,510	113,461,612	118,853,216	124,921,957	
	Administrative salaries and wages	1,468,800	1,556,928	1,650,344	1,749,364	1,854,326	1,965,586	2,083,521	2,208,532	2,341,044	
	Selling expenses @ Rs. 2.5 per kg	4,276,800	4,633,200	4,989,600	5,346,000	5,817,600	6,181,200	6,544,800	6,850,800	7,200,000	
	Total	5,745,600	6,190,128	6,639,944	7,095,364	7,671,926	8,146,786	8,628,321	9,059,332	9,541,044	
	Cost of Sales	80,177,840	86,783,888	93,397,624	100,019,484	108,562,252	115,321,296	122,089,933	127,912,549	134,463,001	
	Expected sales revenue	86,400,000	92,448,000	98,919,360	105,843,715	113,252,775	121,180,470	129,663,102	138,739,520	148,451,286	
	Gross Profit	6,222,160	5,664,112	5,521,736	5,824,231	4,690,523	5,859,174	7,573,170	10,826,971	13,988,285	
	Financial expense										
	Interest on Term Loan	214,904	187,781	154,400	121,018	87,636	-	-	-	-	
	Interest on WC Loan	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	
	total	364,904	337,781	304,400	271,018	237,636	150,000	150,000	150,000	150,000	
	Operating profits (PBT)	5,857,256	5,326,331	5,217,337	5,553,213	4,452,887	5,709,174	7,423,170	10,676,971	13,838,285	
	Preliminary Expense	-	-	-	-	-	-	-	-	-	
	Other income - loan repayment via subsidy	-	-	-	-	-	1,137,000	-	-	-	
	depreciation	590,250	505,463	433,018	371,103	318,171	272,906	234,184	201,050	172,686	
	Net Profit before Tax	5,267,006	4,820,868	4,784,319	5,182,110	4,134,716	6,573,268	7,188,985	10,475,921	13,665,599	
	Income Tax	1,580,102	1,446,261	1,435,296	1,554,633	1,240,415	1,630,880	2,156,696	3,142,776	4,099,680	
	Profits after Tax	3,686,904	3,374,608	3,349,023	3,627,477	2,894,301	4,942,387	5,032,290	7,333,145	9,565,919	
	Distribution of profits (80%)	2,949,524	2,699,686	2,679,218	2,901,982	2,315,441	3,953,910	4,025,832	5,866,516	7,652,735	
	Profit transfer to balance sheet	737,381	674,922	669,805	725,495	578,860	988,477	1,006,458	1,466,629	1,913,184	

1. assumed that 10% of the output is normal loss in production processs

2. interest on working capital is assumed to be 10% p.a.

3. Electricity are semi-fixed cost. Rs. 1,10,000 pa is fixed, balance is variable at Rs. 12 per unit usage

4. 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	960000	1008000	1058400	1111320	1166886	1225230.3	1286491.815	1350816.406	1418357.226

5. Closing stock is valued at Rs. 38 per kg

Annexure 5- Projected balance sheet

Projected Baalance 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	4,185,000	3,594,750.00	3,089,287.50	2,656,269.38	2,285,166.47	1,966,995.25	1,694,089.34	1,459,904.97	1,258,855.36
	Less- Depreciation	590,250	505,462.50	433,018.13	371,102.91	318,171.22	272,905.91	234,184.36	201,049.61	172,685.78
	net Block	3,594,750	3,089,287.50	2,656,269.38	2,285,166.47	1,966,995.25	1,694,089.34	1,459,904.97	1,258,855.36	1,086,169.58
2	Closing Stock	673,920	1,404,000	2,190,240	3,032,640	2,134,080	1,179,360	168,480	-	-
3	Sundry debtors	7,200,000	7,704,000	8,243,280	8,820,310	9,437,731	10,098,372	10,805,259	11,561,627	12,370,940
4	Cash/ bank balance	9,121,611	9,715,395	10,140,178	10,464,826	12,314,596	13,936,898	16,685,375	18,969,005	21,449,401
	Total assets	20,590,281	21,912,682	23,229,967	24,602,942	25,853,403	26,908,720	29,119,018	31,789,487	34,906,511
B	Liabilities									
1	Capital	568,500	1,305,881	1,980,802	2,650,607	3,376,102	3,954,963	4,943,440	5,949,898	7,416,527
	Add- Profit	737,381	674,922	669,805	725,495	578,860	988,477	1,006,458	1,466,629	1,913,184
	Less- Drawings	-	-	-	-	-	-	-	-	-
	Closing capital	1,305,881	1,980,802	2,650,607	3,376,102	3,954,963	4,943,440	5,949,898	7,416,527	9,329,711
2	term Loan	3,338,320	2,781,960	2,225,600	1,669,240	1,137,000	-	-	-	-
3	Working capital	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
4	Creditors	14,446,080	15,649,920	16,853,760	18,057,600	19,261,440	20,465,280	21,669,120	22,872,960	24,076,800
	Total liabilities	20,590,281	21,912,682	23,229,967	24,602,942	25,853,403	26,908,720	29,119,018	31,789,487	34,906,511
	Current Ratio									
	Current Assets	16,321,611	17,419,395	18,383,458	19,285,136	21,752,327	24,035,271	27,490,633	30,530,632	33,820,341
	Current Liabilities	14,446,080	15,649,920	16,853,760	18,057,600	19,261,440	20,465,280	21,669,120	22,872,960	24,076,800
	Ratio	1.129829745	1.113066071	1.090762993	1.067978913	1.129319897	1.174441337	1.268654801	1.334791462	1.404685895
	Average				1.190392346					
	Debt Equity ratio									
	Debt	3,338,320	2,781,960	2,225,600	1,669,240	1,137,000	-	-	-	-
	Equity	1,305,881	1,980,802	2,650,607	3,376,102	3,954,963	4,943,440	5,949,898	7,416,527	9,329,711
	Ratio	2.556374037	1.404461096	0.839656702	0.494428117	0.28748691	0	-	-	-
	Average				0.620267429					
	Fixed asset coverage ratio									
	Fixed assets	3,594,750	3,089,288	2,656,269	2,285,166	1,966,995	1,694,089	1,459,905	1,258,855	1,086,170
	Debt	4,838,320	4,281,960	3,725,600	3,169,240	2,637,000	1,500,000	1,500,000	1,500,000	1,500,000
	ratio	0.742974834	0.721465754	0.712977608	0.721045572	0.745921596	1.129392891	0.973269982	0.839236907	0.724113051
	Average				0.812266466					
	Debt service coverage ratio									
	Interest on loan (TL + WC)	364,904	337,781	304,400	271,018	237,636	150,000	150,000	150,000	150,000
	Instalment of loan	1,778,180	1,714,904	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
	Total	2,143,084	2,052,685	1,804,400	1,771,018	1,737,636	1,650,000	1,650,000	1,650,000	1,650,000
	Net operating income	6,222,160	5,664,112	5,521,736	5,824,231	4,690,523	5,859,174	7,573,170	10,826,971	13,988,285
	ratio	2.903367771	2.759367701	3.060151768	3.288634688	2.699369888	3.551014245	4.589799826	6.561800629	8.477748279
	Average				2.951881011					

1. assumed that 60 days of purchases are average creditors maintained
2. assumed that 30 days of sales are average debtors maintained by the business

Annexure 8 - Details of Mnpower

Details of Manpower

S. No.	Designation	In no.	Salary per person per month	Monthly cost
i.	Machine operators	3	20,000	720,000
ii.	Accountant	1	30,000	360,000
iii.	Security	1	12,000	144,000
Total				1,224,000
Add: benefits @ 20%				244,800
Total				1,468,800

Total annual wages	1,468,800
Annual increase in wages	5%
Total manpower	5

Annexure 9 - Computation of Depreciation

Computation of Depreciation

Sr. No.	Particulars	Building and civil work	Plant and Machinery	Misc Fixed Asset	Amount in lakhs
i.	Cost	750,000	3,435,000	-	41.85
ii.	Pre operatives	-	-	-	-
iii.	Contingencies	-	-	-	-
	Total				41.85

	Rates of Depreciation	10%	15%	10%	Total depreciation for the year
Year 1		75,000.00	515,250.00	-	590,250.00
Year 2		67,500.00	437,962.50	-	505,462.50
Year 3		60,750.00	372,268.13	-	433,018.13
Year 4		54,675.00	316,427.91	-	371,102.91
Year 5		49,207.50	268,963.72	-	318,171.22
Year 6		44,286.75	228,619.16	-	272,905.91
Year 7		39,858.08	194,326.29	-	234,184.36
Year 8		35,872.27	165,177.34	-	201,049.61
Year 9		32,285.04	140,400.74	-	172,685.78

Written

Annexure 10 - Calculation of Income taxCalculation of Income Tax

Particulars	Year ending March 31st								
	I	II	III	IV	V	VI	VII	VIII	IX
Net profit before tax	5,857,256	5,326,331	5,217,337	5,553,213	4,452,887	5,709,174	7,423,170	10,676,971	13,838,285
Add- dep on SLM	-	-	-	-	-	-	-	-	-
Sub total	5,857,256	5,326,331	5,217,337	5,553,213	4,452,887	5,709,174	7,423,170	10,676,971	13,838,285
Less- Dep on WDV	590,250	505,463	433,018	371,103	318,171	272,906	234,184	201,050	172,686
Sub total	5,267,006	4,820,868	4,784,319	5,182,110	4,134,716	5,436,268	7,188,985	10,475,921	13,665,599
Less - Deductions	-	-	-	-	-	-	-	-	-
Taxable profits	5,267,006	4,820,868	4,784,319	5,182,110	4,134,716	5,436,268	7,188,985	10,475,921	13,665,599
Income tax @30%	1,580,102	1,446,261	1,435,296	1,554,633	1,240,415	1,630,880	2,156,696	3,142,776	4,099,680

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

Break even capacity at maximum capacity utilization

Sales		144,000,000
Variable cost		
- Procurement cost of inputs	120,384,000	
- Running and maintenance cost	3,009,600	
- Selling cost	7,200,000	
- Interest on Working capital	150,000	
- electricity expense	228,196	130,971,796
Contribution		13,028,204
Less: fixed cost		
Wages and salaries		1,468,800
Office Electricity expense		350,000
Transportation expense		1,200,000
Office expense		200,000
Depreciation		590,250
Interest on TL		214,904
Fixed cost		4,023,954

	Rs. per kg	
Sales price per kg	50	
Procurement cost of vegetable and fruit	38	
Running and maintenance cost	2.5	
Interest on Working capital	0.05	
selling expenses	2.5	
Electricity charges	0.08	
Contribution per kg	6.868681793	
BEP in kgs	585840.74	
Total BEP %	20.34%	

assumptions

1. Interest on working capital is computed taking 6% rate of interest p.a.
2. Office expenses are fixed with annual increase 2% annually
3. selling expenses are variable expenses, incurred Rs. 2 per kg of output sold
4. Office electricity expenses are fixed at Rs. 2 lakhs, while production electricity expenses are variable

Annexure 13 - Repayment schedule

Repayment schedule

Amount of Loan (in lakhs)	36.17
Amount of subsidy (in lakhs)	11.3700
Rate of interest	6.00%
Moratorium period	6 months

Year	Quarter	Balance outstanding	Principal instalment	Interest
1	1	36.17	0	0.5425
	2	36.17	0	0.5425
	3	36.17	1.3909	0.5425
	4	34.7741	1.3909	0.5216
2	1	33.3832	1.3909	0.5007
	2	31.9923	1.3909	0.4799
	3	30.6014	1.3909	0.459
	4	29.2105	1.3909	0.4382
3	1	27.8196	1.3909	0.4173
	2	26.4287	1.3909	0.3964
	3	25.0378	1.3909	0.3756
	4	23.6469	1.3909	0.3547
4	1	22.256	1.3909	0.3338
	2	20.8651	1.3909	0.313
	3	19.4742	1.3909	0.2921
	4	18.0833	1.3909	0.2712
5	1	16.6924	1.3909	0.2504
	2	15.3015	1.3909	0.2295
	3	13.9106	1.3909	0.2087
	4	12.5197	1.1497	0.1878
6	1	11.37	0	0
	2	0	0	0
	3	0	0	0
	4	0	0	0
7	1	0	0	0
	2	0	0	0
	3	0	0	0
	4	0	0.00	0

repaid via loan

In case of Capital subsidy, the amount vary depending on location of unit and scheme offered by the government at that time. Thus it is assumed here that 20% of project cost (Rs. 11.37 lakhs)is sourced through back end subsidy.

The amount Rs. 11.37 lakhs is sourced by Government subsidy. Since this is a back end subsidy, the amount is funded to bank at the end of repayment schedule.

Sales Budget

	Year ending March 31st								
	I	II	III	IV	V	VI	VII	VIII	IX
Production capacity utilization	60%	65%	70%	75%	80%	85%	90%	95%	100%
Production qty	1728000	1872000	2016000	2160000	2304000	2448000	2592000	2736000	2880000
Sales qty	1710720	1853280	1995840	2138400	2327040	2472480	2617920	2740320	2880000
Sales	86400000	92448000	98919360	105843715	113252775	121180470	129663102	138739520	148451286

Production budget

Production capacity 1000 kg per hr
 Production hours in a year 2880 hours
 Production qty in a year 2,880,000 kgs

Products	Production at 100% capacity	sales prices per kg in year I	purchase prices per kg in year I
Output	2,880,000	50.0	38.0

Output stock calculation

	Year ending March 31st								
	I	II	III	IV	V	VI	VII	VIII	IX
Opening Stock	-	17,280	36,000	56,160	77,760	54,720	30,240	4,320	-
Add: Production	1,728,000	1,872,000	2,016,000	2,160,000	2,304,000	2,448,000	2,592,000	2,736,000	2,880,000
Ouput available for sale	1,728,000	1,889,280	2,052,000	2,216,160	2,381,760	2,502,720	2,622,240	2,740,320	2,880,000
Less: Sales	1,710,720	1,853,280	1,995,840	2,138,400	2,327,040	2,472,480	2,617,920	2,740,320	2,880,000
Closing Stock	17,280	36,000	56,160	77,760	54,720	30,240	4,320	-	-

Assumptions:

1. Sales price per kg of output is 50, expected to increase 7% per annum
2. assumed that 99% of production is sold for first 5 years, thereafter demand is almost 101% of output but we are able to serve market according to the availability of output

Cash flow statement

Particulars	I	II	III	IV	V	VI	VII	VIII	IX
opening balance	1,500,000	9,121,611	9,715,395	10,140,178	10,464,826	12,314,596	13,936,898	16,685,375	18,969,005
Add: Capital	568,500								
Add: Loan disbursement	3,616,500								
Less: Purchase of asset	4,185,000								
Add: Sales realizations	79,200,000	84,744,000	90,676,080	97,023,406	103,815,044	111,082,097	118,857,844	127,177,893	136,080,345
Less: Payment made to creditors of previos year	-	14,446,080	15,649,920	16,853,760	18,057,600	19,261,440	20,465,280	21,669,120	22,872,960
Add: Receipts from debtors of previos year	-	7,200,000	7,704,000	8,243,280	8,820,310	9,437,731	10,098,372	10,805,259	11,561,627
Less: Payments made for current year purchase	66,405,680	71,864,048	77,330,104	82,804,284	88,402,252	93,901,296	99,409,933	104,871,109	110,386,201
Less: Interest payments	364,904	337,781	304,400	271,018	237,636	150,000	150,000	150,000	150,000
	13,929,416	14,417,702	14,811,052	15,477,801	16,402,692	19,521,688	22,867,902	27,978,298	33,201,816
Less: Income tax	1,580,102	1,446,261	1,435,296	1,554,633	1,240,415	1,630,880	2,156,696	3,142,776	4,099,680
	12,349,314	12,971,441	13,375,756	13,923,168	15,162,277	17,890,808	20,711,206	24,835,521	29,102,136
Less: Distrubutions made from profits	2,949,524	2,699,686	2,679,218	2,901,982	2,315,441	3,953,910	4,025,832	5,866,516	7,652,735
	9,399,791	10,271,755	10,696,538	11,021,186	12,846,836	13,936,898	16,685,375	18,969,005	21,449,401
Less: Principal repayment of loan	278,180	556,360	556,360	556,360	532,240	-	-	-	-
Closing cash balance	9,121,611	9,715,395	10,140,178	10,464,826	12,314,596	13,936,898	16,685,375	18,969,005	21,449,401

S. no. Assumptions

- 1 It is assumed that 10% of the output is normal loss in production process
- 2 Interest on working capital is assumed to be 10% p.a.
- 3 Electricity are semi-fixed cost. Rs. 1,10,000 pa is fixed, balance is variable at Rs. 12 per unit usage
- 4 Electricity usage in units is given below

Year	I	II	III	IV	V	VI	VII	VIII	IX
Usage in units	80000	84000	88200	92610	97240.5	102102.525	107207.6513	112568.0338	118196.4355
Variable cost	960000	1008000	1058400	1111320	1166886	1225230.3	1286491.815	1350816.406	1418357.226

- 5 Closing stock is valued at Rs. 38 per kg
- 6 It is assumed that 30 days of sales are average debtors maintained by the business
- 7 Assumed that 60 days of purchases are average creditors maintained
- 8 Assumed that 30 days of sales are average debtors maintained by the business



(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.