

**PROJECT COST** 

**USD 29.70 MILLION** 

# Feasibility Report and BUSINESS PLAN of Nakshi Green Agro Limited



### **INVESTMENT PROPOSAL**

Total Loan Required	: USD 21.27 mln
Long-Term Loan	: USD 17.72 mln
Short-Term Loan	: USD 3.55 mln
Funded Facilities	: USD 1.25 mln
Non-Funded Facilities	: USD 2.30 mln
Debt-Equity Ratio	
Long-Term Finance	: 76.36 : 23.64
Short-Term Finance	: 70.00 : 30.00
Proposed Interest Rate	: 4.00%
Loan Tenure	: 10 years
Moratorium Period	: 24 months
Equal Monthly Instalments (EMI)	: USD 0.19 mln
Equal Quarterly Instalments (EQI)	: USD 0.58 mln

### **PROJECTED KEY FINANCIALS**

### (Five Years Average)

Yearly Sales Target	: USD 27.62 mlr
Net Profit Target	: USD 6.62 mln
Gross Profit (GP)	: 39.03%
Operating Profit (OP)	: 35.88%
Net Profit (NI)	: 23.88%

### **Key Decision Points**

IRR	: 34.70%
ROI	: 16.63%
ROE	: 32.55%
Payback period	: 2.95 years
Discounted Payback Period	: 3.18 years
Debt Service Coverage Ratio	: 3.89 Times
Break Even (BEP)	: 28.98%
NPV	: USD 11.57 mln









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If you have any query about this document, you may consult with Nakshi Green Agro Limited at +8801716977292, +8801779799436 or SouthAsia Research & Corporate Advisory Ltd at +8801711 051 276

Issue Date: October 25, 2023

Expiry Date: April 25, 2024

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This Feasibility Report and Business Plan has been prepared on the basis of several assumptions which has been shown in Page No. 36 Before reading this document, review the assumptions.

### AVAILABILITY OF THE REPORT

Nakshi Green Agro Limited & SouthAsia Research & Corporate Advisory Ltd

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		Corporate Directory
Name of the Company	:	Nakshi Green Agro Limited
Nature of the Project	:	Agro Product Manufacturing and Processing Project
Company Logo	:	green agro Itd.
Legal Position	:	Private Limited Company
Incorporation Certificate No.	:	C-162285/2020
Trade License No.	:	TRAD/DSCC/013178/2020; Issuing Date: 26.07.2023
Top Management		
Syeda Fahmina Akter	:	Chairman
Md. Salauddin Mahmud Khan Uzzal	:	Managing Director
Md. Salauddin Khalid Khan	:	Director
Anowar Shamim	:	Director
Md. Zakir Hussain	:	Director
Email	:	smkhanuzzal@yahoo.com nakshigreenagro@gmail.com
Mobile No	:	+8801716977292 +8801779799436
Corporate Adress	:	House # 42/A (4th Floor), Road# 9/A, Dhanmondi, Dhaka-1209, Bangladesh
Project Location	:	Meduari, Varadoba, Bhaluka, Mymensingh, Bangladesh





## **PROJECT INFORMATION**

Name of the		
Company	:	Nakshi Green Agro Limited
Project Location	:	Meduari, Varadoba, Bhaluka, Mymensingh, Bangladesh
Nature of the Project	:	Agro Product Manufacturing and Processing Project
Project Status	:	Proposed
Corporate Address	:	House # 42/A (4th Floor), Road# 9/A, Dhanmondi, Dhaka-1209, Bangladesh
Key Contact Person	:	Md. Salauddin Mahmud Khan Uzzal Managing Director
Contact No	:	+8801716977292 +8801779799436
Email	:	smkhanuzzal@yahoo.com nakshigreenagro@gmail.com
BRIEF MANAGEMEN	IT	INFORMATION
BRIEF MANAGEMEN Syeda Fahmina Akter	IT :	
	:	
Syeda Fahmina Akter	:	Chairman

### **KEY FACTORS OF THE PROJECT**

Attainable Production Capacity/Day	
Corn Starch Liquid Glucose Dextrose	: 60,000 kg : 50,000 kg : 25,000 kg
Corn Germ Corn Gluten Meal (CGM)	: 13,000 kg : 11,000 kg
Corn Fiber Corn Steep Liquor (CSL)	: 24,000 kg : 7,000 kg
Total Project Cost Fixed Cost	<b>: USD 29.70 mln</b> : USD 24.63 mln
Variable Cost	: USD 5.07 mln
Total Investment Required Long-Term Loan	<b>: USD 21.27 mln</b> : USD 17.72 mln
Short-Term Loan	: USD 3.55 mln
Debt-Equity Ratio Long-Term Loan	: 76.36 : 23.64
Short-Term Loan	: 70.00 : 30.00
Loan Repayment Equal Quarterly Instalment	: USD 0.58 mln
Equal Monthly Instalment	: USD 0.19 mln
Key Financials (Based on 5 Year Average)	
Yearly Sales Target Net Profit Target	: USD 27.62 mln : USD 6.62 mln
Gross Profit (GP) Operating Profit (OP)	: 39.03% : 35.88%
Net Profit (NI)	: 23.88% : 34.70%
ROI	: 16.63%
ROE Payback period	: 32.55% : 2.95 years
Discounted Payback Period Debt Service Coverage Ratio	: 3.18 years : 3.89 Times
Break Even (BEP)	: 28.98%

Md. Zakir Hussain

: Director

NPV

: USD 11.57 mln



: USD 21.27 mln

# Invitation for investment

Nakshi Green Agro Limited is inviting financial institutions for investing this commercially viable project for implementation of this project with the below features:

### **Total Investment Requirement**

: USD 17.72 mln : USD 2.03 mln : USD 0.06 mln : USD 13.99 mln : USD 0.70 mln : USD 0.24 mln : USD 0.17 mln : USD 0.03 mln : USD 0.02 mln : USD 0.47 mln
: USD 3.55 mln
: USD 2.20 mln : USD 0.10 mln
: USD 0.50 mln : USD 0.75 mln
: 10 years for long term loan : Revolving basis : 24 months for long term loan : 4.00% : USD 0.58 mln : USD 0.19 mln : 76.36 : 23.64 : 70.00 : 30.00



### ACRONYMS

	International Monatory Fund
IMF	: International Monetary Fund
GATT	: Generalized Agreement on Tariffs and Taxes
DOE	: Department of Environment
EU	: European Union
GDP	: Gross Domestic Product
GOB	: Government of Bangladesh
ILO	: International Labor Organization
ITC	: International Trade Center
LDC	: Least Developed Countries
MOC	: Ministry of Commerce
MOE	: Ministry of Education
MOI	: Ministry of Industry
MSME	: Micro Small & Medium Enterprises
PPP	: Public Private Partnership
QC	: Quality Control
R&D	: Research & Development
SME	: Small & Medium Enterprise
SOP	: Standard Operating Procedure
SWOT	: Strength Weakness Opportunity Threat
NPV	: Net Present Value
IRR	: Internal Rate of Return
L/C	: Letter of Credit
EMI	: Equal Monthly Installment
EQI	: Equal Quarterly Instalment
PB	: Payback period
ROI	: Return on Investment
ROE	: Return on Equity
IDCP	: Interest during Construction Period
BEP	: Break Even Point
UPAS L/C	: Usance Payable at Sight (UPAS) Letter of Credit (L/C)
YOY	: Year Over Year
NGA	: Nakshi Green Agro Limited



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1. Executive Summary





### **1.1** Review and Outlook of the Products

About Corn Starch: Corn starch, maize starch, or cornflour is the starch derived from corn (maize) grain. The starch is obtained from the endosperm of the kernel. Corn starch is a common food ingredient, often used to thicken sauces or soups, and to make corn syrup and other sugars. Corn starch is versatile, easily modified, and finds many uses in industry such as adhesives, in paper products, as an anti-sticking agent, and textile manufacturing. It has medical uses as well, such as to supply glucose for people with glycogen storage disease.

**About Liquid Glucose:** Liquid Glucose is the syrup form of glucose which is a sugar and is one of the derivatives of corn starch or maize starch. Also known as glucose syrup or confectioner's syrup, this derivative is made from the hydrolysis of starch. Liquid glucose which consists of more than 90% glucose is used in industrial fermentation but it is important to know that the syrups used in confectionery may consist of different amounts of maltose, glucose, and higher oligosaccharides and may have about 10-43% of glucose content.

**About Dextrose**: Dextrose is a type of sugar that usually comes from corn or wheat. It is almost identical to glucose, which is the sugar found in the bloodstream. For that reason, it can be quickly used as a source of energy by the human body. Dextrose is often used in foods as an artificial sweetener or a preservative.

**About Corn Germ:** Corn germ, popularly known as maize germ is the germ which makes up for 6-8% of the total weight of the corn grain. It also consists of 50% of the total oil quantity present in corn. It plays the role of the primary product that is used to make corn oil and also forms an important ingredient of animal food or fodder. Basically, maize germ is a derivative or by-product of the process of oil extraction from maize germs which are obtained from maize processing.

About Corn Gluten Meal (CGM): Corn gluten meal (often simply called CGM) is a byproduct of corn (maize) processing that has historically been used as an animal feed (take note that the expression gluten here is inexact; there is no true gluten in corn, but simply corn proteins.

The expression "corn gluten" is colloquial jargon that describes corn proteins that are neither gliadin nor glutenin. Only wheat, barley, rye and oat contain true gluten which is formed by the interaction of gliadin and glutenin proteins).

CGM is used as an inexpensive protein source for pet foods. However, some dogs and cats may develop an allergy to corn after eating CGM for an extended amount of time. It is an especially good source of the amino acid cysteine, but must be balanced with other proteins for lysine. It is also used for livestock and poultry feeds.

**Corn Steep Liquor (CSL)**: It is a viscous liquid mixture consisting entirely of water-soluble components of corn steeped in water. CSL is a kind of byproduct produced in the processing course of corn starch. It is widely used in liquid form in pig and ruminant feeds and as a binding or pelleting agent in other feeds.

Due to huge market potential and sizable market, Nakshi Green Agro Limited (NGA) has taken initiative to set up an Agro Product Manufacturing and Processing Project at Meduari, Varadoba, Bhaluka, Mymensingh, Bangladesh with latest technology. As per market analysis, this project will be technically feasible, financially rewarding and economically & commercially viable.



### 1.2 About Nakshi Green Agro Limited

**Nakshi Green Agro Limited (NGA)** was incorporated as a Private Limited Company on 12<sup>th</sup> August, 2020 bearing Incorporation No.: C-162285/2020. The Authorized Share Capital of the Company is USD 50,000,000.00 (Five Crore) divided into 500,000.00 (Five Lakhs) Ordinary Shares of BDT 100.00 (One Hundred) each.

NGA is going to set up an Automatic Agro Product Manufacturing and Processing Plant with an objective of producing export quality Corn Starch, Liquid Glucose, Dextrose, Corn Gluten Meal (CGM), Corn Germ, Corn Fiber, Corn Steep Liquor (CSL) to meet the demand of domestic & international market.

For this project, NGA has taken approval from appropriate authorities of Bangladesh Government. Some legal information of NGA are as follows:

- Incorporation Certificate: C-162285/2020
- Trade License: TRAD/DSCC/013178/2020

### 1.3 List of Directors & Shareholding Structure of NGA

Name of Directors	Status	No. of Shares	% of Shares
Syeda Fahmina Akter	Chairman	30,000	30.00%
Md. Salauddin Mahmud Khan Uzzal	Managing Director	45,000	45.00%
Md. Salauddin Khalid Khan	Director	10,000	10.00%
Anowar Shamim	Director	10,000	10.00%
Md. Zakir Hussain	Director	5,000	5.00%
Total		100,000	100.00%



# 1.4 About the Project(i) Features of the Project and Its Objectives

Name of the Company :	Nakshi Green Agro Limited
Nature of the Project :	To manufacture Corn Starch, Liquid Glucose, Dextrose, Corn Germ, Corn Gluten
Nature of the Project .	Meal (CGM), Corn Fiber and Corn Steep Liquor (CSL).
Corporate Office :	House # 42/A (4th Floor), Road# 9/A, Dhanmondi, Dhaka-1209, Bangladesh.
Project Location :	Meduari, Varadoba, Bhaluka, Mymensingh, Bangladesh.
Legal Formation of the Project :	Private Limited
Life of The Project :	30 years
Product Mix :	Agro Product Manufacturing and Processing Plant
Total Project Cost :	USD 29.70 mln
Fixed Cost :	USD 24.63 mln
Variable Cost :	USD 5.07 mln
Total Investment Required :	: USD 21.27 mln
Long-Term Loan :	USD 17.72 mln
Short-Term Loan :	USD 3.55 mln
Debt-Equity Ratio	
Long-Term Loan :	76.36 : 23.64
Short-Term Loan:	
Loan Repayment	
Equal Quarterly Instalment :	USD 0.58 mln
Equal Monthly Instalment:	USD 0.19 mln
Attainable Production	
Capacity/Day	
Corn Starch :	60,000 kg
Liquid Glucose :	50.000 kg
Dextrose :	25,000 kg
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	13,000 kg
Corn Gluten Meal (CGM) :	
	24,000 kg
Corn Steep Liquor (CSL):	
Average Sales Price/kg	
Corn Starch :	USD 0.63
Liquid Glucose :	USD 0.78
Dextrose	USD 0.98
Corn Germ	USD 0.49
Corn Gluten Meal (CGM)	USD 0.74
Corn Fiber	USD 0.35
Corn Steep Liquor (CSL)	USD 0.11
Basic Raw Materials Cost/kg	
Different Varieties of Corn :	USD 0.22
Different Varieties of Corn :	USD 0.43
Different Varieties of Corn: Sulfur Dioxide (SO2):	USD 0.43
Different Varieties of Corn: Sulfur Dioxide (SO2): Caustic Soda:	USD 0.43
Different Varieties of Corn : Sulfur Dioxide (SO2) : Caustic Soda : Average Sales Revenue (5 Years) :	USD 0.43 USD 0.57
Different Varieties of Corn : Sulfur Dioxide (SO2) : Caustic Soda : Average Sales Revenue (5 Years) : Average Net Profit (5 Years) :	USD 0.43 USD 0.57 USD 27.62 mln
Different Varieties of Corn : Sulfur Dioxide (SO2) : Caustic Soda : Average Sales Revenue (5 Years) :	USD 0.43 USD 0.57 USD 27.62 mln USD 6.62 mln
Different Varieties of Corn : Sulfur Dioxide (SO2) : Caustic Soda : Average Sales Revenue (5 Years) : Average Net Profit (5 Years) : <b>Key Financial Ratios</b> Gross Income :	USD 0.43 USD 0.57 USD 27.62 mln USD 6.62 mln 39.03%
Different Varieties of Corn : Sulfur Dioxide (SO2) : Caustic Soda : Average Sales Revenue (5 Years) : Average Net Profit (5 Years) : Key Financial Ratios	USD 0.43 USD 0.57 USD 27.62 mln USD 6.62 mln 39.03% 35.88%



### (ii) Project Plan

Nakshi Green Agro Limited (NGA) is going to start an Agro Product Manufacturing and Processing Project where Corn Starch, Liquid Glucose, Dextrose, Corn Germ, Corn Gluten Meal (CGM), Corn Fiber and Corn Steep Liquor (CSL) will be manufactured.

The attainable production capacity will be 190,000 kg per day, 4,750,000 kg per month and 57,000,000 per year. Product loss/wastage has been considered 5.00% for this project. The factory will be operated for twenty (20) hours per day.

Type of Products	Product Category	Production Mix	Total Production Capacity/ Per day 20 hours /KG							
		(%)	Unit	Daily	Monthly	Yearly				
Corn Starch	Main Product	30.00%	KG	60,000	1,500,000	18,000,000				
Liquid Glucose	Main Product	25.00%	KG	50,000	1,250,000	15,000,000				
Dextrose	Main Product	12.50%	KG	25,000	625,000	7,500,000				
Corn Germ	By Product	6.50%	KG	13,000	325,000	3,900,000				
Corn Gluten Meal (CGM)	By Product	5.50%	KG	11,000	275,000	3,300,000				
Corn Fiber	By Product	12.00%	KG	24,000	600,000	7,200,000				
Corn Steep Liquor (CSL)	By Product	3.50%	KG	7,000	175,000	2,100,000				
	Grand Total	95%		190.000	4.750.000	57.000.000				

The attainable production capacity and product matrix have been illustrated below:

The project will be located at Meduari, Varadoba, Bhaluka, Mymensingh, Bangladesh where total land size of this project is 339.00 decimals and 210,701 sft civil constructions will be constructed.

Agro Product Manufacturing and Processing Project



### 1.5 Capacity Utilization Plan of the Project

NGA is planning to utilize the production capacity over the next ten (10) years as follows:

Year	Capacity Utilization
1st Year	65.00%
2nd Year	70.00%
3rd Year	75.00%
4th Year	80.00%
5th Year	85.00%
6th Year	85.00%
7th Year	85.00%
8th Year	85.00%
9th Year	85.00%
10th Year	85.00%



### **1.6 Estimated Project Cost**

For this project, the total cost has been estimated USD 29.70 million including long-term & short-term investment. The summary of the project cost has illustrated below:

	Agro Product Manufacturing a Estimated Proje		Plar	it.	
					Fig. in USD
SL #	Particulars			Cost	
3L #	Faiticulais	Import		Local	Total
01	Land and Land Development Cost	\$-	\$	1,031,739	\$ 1,031,739
02	Project Shed and Building		\$	3,385,915	\$ 3,385,915
03	Others Civils Construction( Water reserver, Internal Road, Main Gate, Boundary wall and Security Room )		\$	84,918	\$ 84,918
04	Machinery and Equipment(Imported)	\$ 15,544,400			\$ 15,544,400
05	Import Duty, Customs, VAT and Insurance(4.5%)		\$	699,498	\$ 699,498
06	Machinery and Equipment(Local)		\$	347,826	\$ 347,826
07	Sub Station(3500 KVA) with all Accessories		\$	217,391	\$ 217,391
08	Fire Fighting, Fire Door , Fire Alarm and others		\$	43,478	\$ 43,478
09	Security Devices, CC Camera, CC TV, and Compliance Equipment		\$	30,435	\$ 30,435
10	Vehicle (Sixteen (15)- 15-MT Trucks Cpacity )		\$	584,348	\$ 584,348
11	Security Deposit and advance for Utility		\$	43,478	\$ 43,478
12	Office Decoration, Furniture-fixture & Office Equipment		\$	60,870	\$ 60,870
13	Machinery erection & installation		\$	86,957	\$ 86,957
14	Preliminary expenses & Consultancy fees	\$-	\$	30,435	\$ 30,435
15	Contingency for Civil Construction- 5%		\$	173,542	\$ 173,542
16	Contingency for Machinery -5%	\$ 777,220	\$	70,087	\$ 847,307
	TOTAL FIXED COST EXCEPT IDCP	\$16,321,620	\$	6,890,916	\$ 23,212,536
17	Working Capital Requirement				\$ 5,069,035
18	IDCP (24 months Grace Period with 4% rate of interest)				\$ 1,417,956
	TOTAL PROJECT COST				\$ 29,699,527

		Fig. in USD
Sponsor's Equity	23.64%	\$ 5,488,086
Long Term Loan	76.36%	\$ 17,724,450
Interest During Construction Period(IDCP)		\$ 1,417,956
Working Capital , Equity	30.00%	\$ 1,520,710
Working Capital , Short Term Loan	70.00%	\$ 3,548,324
TOTAL		\$ 29,699,527

In this project, total fixed investment has been estimated USD 24.63 million including IDCP which would be considered as long-term investment and total variable investment have been estimated USD 5.07 million which would be considered as short-term investment/working capital. This working capital includes funded facilities which is LC Facilities, Bank Guarantee, LTR Facilities and CC Hypo/OD. The debtequity ratio and fixed and variable costs of this project has been illustrated in the beside table.

### Total Project Cost : U

### : USD 29.70 mln

Fixed Cost: USD 24.63 mlnVariable Cost: USD 5.07 mln

### **Debt-Equity Ratio**

For Long-Term Loan : 76.36 : 23.64 For Short-Term Loan: 70.00 : 30.00

# 1.7 Long-Term Finance Requirement

# Feasibility Report and Business Plan of Nakshi Green Agro Limited

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Import Duty, Customs, VAT and Insurance(4.5%)

Machinery and Equipment(Local)

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Financial

**Fotal Project** 

Cost

Particulars

# IS

Contribution

100%

%0 80% 70% 80%

1,031,739

40%

30%

84,918 3,385,915

Others Civils Construction(Water reserver, Internal Road, Main

Land and Land Development Cost

6 02 8 8 05 90 07 8000 얹 Ħ F1 F1

Project Shed and Building

Gate, Boundary wall and Security Room )

Machinery and Equipment(Imported)

Agro Product Manufacturing and Processing Plant

**Debt-Equity Ratio** 

Nakshi Green Agro Limited

Fig in USD

116,870

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L16,870

6,087

24,348

24,348 173,913

20% 20%

80% 80%

30,435

Security Devices, CC Camera, CC TV, and Compliance Equipment

Vehicle (Sixteen (15)- 15-MT Trucks Cpacity

Security Deposit and advance for Utility

Fire Fighting, Fire Door, Fire Alarm and others Sub Station(3500 KVA) with all Accessories

Office Decoration, Furniture-fixture & Office Equipment

Preliminary expenses & Consultancy fees

Machinery erection & installation

Contingency for Civil Construction-5%

Contingency for Machinery -5%

43,478

20%

70% 80%

347,826

217,391

20% 100% 100% 100% 100% 100%

80% %0 %0 %0 %0

584,348

43,478 60,870 30,435

173,542 847,307 \$ 23,212,536

Debt -Equity Ratio (%)

Total

Long-Term Finance

86,957

167,478

467,478

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173,913

43,478 60,870

43,478

30,435

30,435

86,957

60,870 \$ 86,957 \$ 173.542 \$

173.542

847,307

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847,307

\$ 3,933,646 \$ 5,488,086

1,554,440

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76.36%

3,734,490 \$ 17,724,450

\$13,989,960 \$

100%

43,478 8,696

43,478 6,087

8,696 \$ S

104,348

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L04,348

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table.

In this project, NGA will finance USD 5.49 (23.64% of Project Cost) million as capital investment which will be considered as sponsors equity & NGA is expecting investment from financial institutions amounted to USD 17.72 mln which is 76.36% as long-term finance which has been illustrated in above

23.64%

Short-Term Finance

For smooth operation of this project, total working capital requirement has been estimated USD 5.07 million including funded and non-funded facilities for utilizing the production capacity 65% in the first year. Out of total working capital requirement in first year, NGA is expecting USD 3.55 mln as funded and non-funded facilities. The details have been illustrated in the following page no.-9





### 1.8 Working Capital Requirement

	Agro Produc		i Green A	<u> </u>		ıø P	lant				
	U				ing Capita	<u> </u>					
											Fig. in US
Particulars	Tied up Period	En	d of 1st Year	En	d of 2nd Year	E	nd of 3rd Year	E	nd of 4th Year	Er	nd of 5th Year
Capacity Utilization			65%		70%		75%		80%		85
Current Operating Assets											
Basic Chemicals and Auxiliaries											
Basic Raw Materials, Chemicals and Auxiliaries Cost	4 months	\$	2,936,280	\$	3,162,147	\$	3,388,015	\$	3,613,883	\$	3,839,75
Total Basic Chemicals and		\$	2,936,280	\$	3,162,147	\$	3,388,015	\$	3,613,883	\$	3,839,75
Auxiliaries and Packing Cost											
Closing Stock/Inventory			700.010		000 500		054.047	•	000 540		050 50
Finished Goods	15 days	\$ \$	738,816	\$ \$	802,520	\$	854,647 211.751		903,510	\$	952,56
Work in Process	7 days 3 months	ֆ \$	188.133	\$ \$		\$ \$	206.222		225,868	э \$	
Advance Salary and Wages Accounts Receivables	1 month	\$ \$	1,223,666	\$ \$	196,816	ֆ \$	1,747,151		216,063	э \$	223,43
	THIOHUI	φ	1,223,000	φ	1,519,270	-Ф	1,141,151	φ	1,988,540	φ	2,245,49
Factory and Admin Overhead Expenses	3 months	\$	826,819	\$	2,421,661	\$	2,637,781	\$	2,799,160	\$	2,960,53
Total Current Operating Assets		\$	6.119.254	\$	8.300.049	\$	9.045,568	\$	9.747.030	\$	10,461,76
······································				-							
Current Operating Liabilities						Ĉ.					
Accounts Payable	15 days on Raw Materials Cost	\$	677,603	\$	677,603	\$	677,603	\$	677,603	\$	677,60
	30 days on production										
Accrued Expenses	overhead and Admin	\$	369,116	\$	1,081,099	\$	1,177,581	\$	1,249,625	\$	1,321,66
	Expenses										
Other Accrued Liabilities	LS	\$	3,500	\$	3,500	\$	3,500	\$	3,500	\$	3,50
<b>Total Current Operating Liabilities</b>	s	\$	1,050,219	\$	1,762,202	\$	1,858,684	\$	1,930,728	\$	2,002,77
Net Working Capital		\$	5,069,035	\$	6,537,847	\$	7,186,884	\$	7,816,302	\$	8,458,997
Verking Conital Dequirment of											
Vorking Capital Requirment as per year wise	%		1st Year		2nd Year		3rd Year		4th Year		5th Yea
Short Term Loan from Banks	70.00%	\$	3,548,324	\$	4,576,493	\$	5,030,819	\$	5,471,411	\$	5,921,29
Equity Contribution	30.00%	\$	1,520,710	\$	1,961,354	\$	2,156,065	\$	2,344,891	\$	2,537,69
Total		\$	5,069,035	\$	6,537,847	\$	7,186,884	\$	7,816,302	\$	8,458,997

For this project, NGA has assessed the working capital requirement amounted to USD 5.07 mln as funded and non-funded facilities by utilizing 65% average capacity in the first year in which NGA requires 3.55 mln as funded and non-funded facilities from banks/financial institutions.

The working capital facilities will include LC Facilities, Bank Guarantee, LTR Facilities and CC Hypo/OD. The working capital matrix has been illustrated in the beside table.

### Working Capital Requirement

(Including Funded and Non-Funded)

### : USD 3.55 mln

Non-Funded LC Facilities : USD 2.20 mln Bank Guarantee : USD 0.10 mln

### Funded

Grand Total

- LTR Facilities CC Hypo/OD
- : USD 0.50 mln : USD 0.75 mln



### **1.9 Projected Financials**

### (i) Projected Income Statement

After implementation of this project, the net profit over the next five years would be as follows:

	N	akehi Gre		n Agro Lim	+	od		
Agro H	roc	duct Manufa	ctu	iring and Pro	ces	ssing Plant		
	P	rojected Ir	nco	ome State	me	ent		
								Fig. in USD
Particulars		1st Year		2nd Year		3rd Year	4th Year	5th Year
Sales	\$ :	22,590,765	\$	26,044,622	\$	27,954,423	\$ 29,828,197	\$ 31,701,130
Cost of Goods Sold	\$	14,037,505	\$	15,986,705	\$	17,040,811	\$ 18,021,337	\$ 19,002,242
Gross Income	\$	8,553,259	\$	10,057,917	\$	10,913,612	\$ 11,806,860	\$ 12,698,889
Administrative & Marketing Expenses	\$	711,840	\$	820,648	\$	880,818	\$ 939,854	\$ 998,852
Operating Income	\$	7,841,419	\$	9,237,269	\$	10,032,794	\$ 10,867,006	\$ 11,700,036
Other Income / Expenses								
Return on Investment	\$	-	\$	-	\$	-	\$ -	\$ -
Net Income Before Interest & Taxes	\$	7,841,419	\$	9,237,269	\$	10,032,794	\$ 10,867,006	\$ 11,700,036
Financial Expenses	\$	842,661	\$	851,557	\$	811,484	\$ 767,123	\$ 720,182
Net Income Before Taxes	\$	6,998,758	\$	8,385,712	\$	9,221,310	\$ 10,099,883	\$ 10,979,854
Provision for VAT and Tax (27.50%)	\$	1,924,658	\$	2,306,071	\$	2,535,860	\$ 2,777,468	\$ 3,019,460
Net Income after Tax	\$	5,074,100	\$	6,079,641	\$	6,685,450	\$ 7,322,415	\$ 7,960,394
Appropriation								 
Retained Earnings at beginning of the period	\$	-	\$	3,551,870	\$	7,807,619	\$ 12,487,433	\$ 17,613,124
Net Income During The Period	\$	5,074,100	\$	6,079,641	\$	6,685,450	\$ 7,322,415	\$ 7,960,394
Cash Dividend declared(20% each year)	\$	1,014,820	\$	1,215,928	\$	1,337,090	\$ 1,464,483	\$ 1,592,079
Transfer to General Reserve(10% each year)	\$	507,410	\$	607,964	\$	668,545	\$ 732,241	\$ 796,039
Retained Earnings at End of the period	\$	3,551,870	\$	7,807,619	\$	12,487,433	\$ 17,613,124	\$ 23,185,400
Ratios :								 
Gross Income to sales		37.86%		38.62%		39.04%	 39.58%	 40.06%
Operating Income to sales		34.71%		35.47%		35.89%	36.43%	 36.91%
Net Income after Tax to sales		22.46%		23.34%		23.92%	24.55%	 25.11%
Debt Service Coverage ratio		3.42		3.73		3.91	4.10	 4.29

In this project, gross profit and Net profit outcome show the satisfactory & acceptable trends over the next five (05) years. All the above financial parameters of the operation are completely satisfactory for taking investment decisions by any bank/financial institution.



### (ii) Projected Cash Flow Statement

		shi Green Manufactur			.+					
li de la companya de		ted Cash	<u> </u>	Ŭ	i C					
									I	Fig. in USD
Particulars		0 Year	 1st Year	 2nd Year		3rd Year		4th Year		5th Year
A. Cash Flows from Operating Activities				 						
Net Income after Tax	_		\$ 5,074,100	\$ 6,079,641	\$	6,685,450	\$	7,322,415	\$	7,960,394
Add : Non cash Expenses			 	 						
Depreciation & Amortization			\$ 2,411,800	\$ 2,411,800	\$	2,411,800	\$	2,411,800	\$	2,411,800
Increase in Working Capital			\$ (5,069,035)	\$ (1,468,812)	\$	(649,037)	\$	(629,418)	\$	(642,695
Net Cash Flows from operating Activities	\$	-	\$ 2,416,865	\$ 7,022,630	\$	8,448,213	\$	9,104,797	\$	9,729,499
B. Cash Flow from Investing Activities										
Acquisition of Fixed assets	\$	(24,630,492)	\$ -	\$ -	\$	-	\$	-	\$	-
Investment in FDR	\$	-								
Net Cash Flows from Investing Activities	\$	(24,630,492)	\$ -	\$ -	\$	-	\$	-	\$	-
C. Cash Flows From Financing Activities				 						
Shareholders Equity	\$	5,488,086								
Shareholders Equity-Working Capital			\$ 1,520,710	\$ 440,644	\$	194,711	\$	188,825	\$	192,809
Long Term Loan received from Bank (Including IDCP)	\$	19,142,405	 							
Short Term Loan (Working Capital)			\$ 3,548,324	\$ 1,028,168	\$	454,326	\$	440,593	\$	449,88
Re-payment of Long Term Loan				\$ (1,589,929)	\$	(1,654,486)	\$	(1,721,665)	\$	(1,791,57
Dividend paid			\$ (1,014,820)	\$ (1,215,928)	\$	(1,337,090)	\$	(1,464,483)	\$	(1,592,079
Net Cash Flows from Financing Activities	\$	24,630,492	\$ 4,054,215	\$ (1,337,045)	\$	(2,342,539)	\$	(2,556,730)	\$	(2,740,955
Increase / Decrese of Cash & Cash Equivalent during the period	\$	-	\$ 6,471,080	\$ 5,685,585	\$	6,105,674	\$	6,548,067	\$	6,988,544
Cash & Cash Equivalent at the beginning of the period	\$	-	\$ -	\$ 6,471,080	\$	12,156,664	\$	18,262,338	\$	24,810,40
Cash & Cash Equivalent at the End of the period	\$	-	\$ 6.471.080	\$ 12.156.664	\$	18,262,338	\$2	24,810,405	\$	31.798.949

NGA has found out that net cash position is showing positive shape over the next five years by considering all aspects of the project. The project will be able to build up an excellent cash reserve over the period.

### (iii) Debt-Payment Obligation

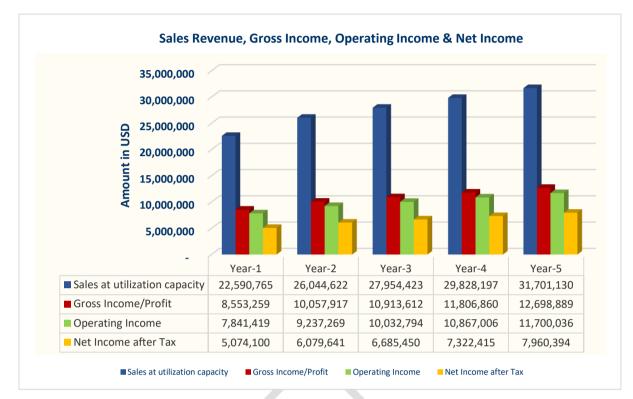
The project will have sufficient liquidity to meet all its obligations from its operations. Monthly debt payment obligation can be easily met up after implementation of this project due to sufficient cash flow and sound net income position. The financial expenses and debt payment obligation has been illustrated below:

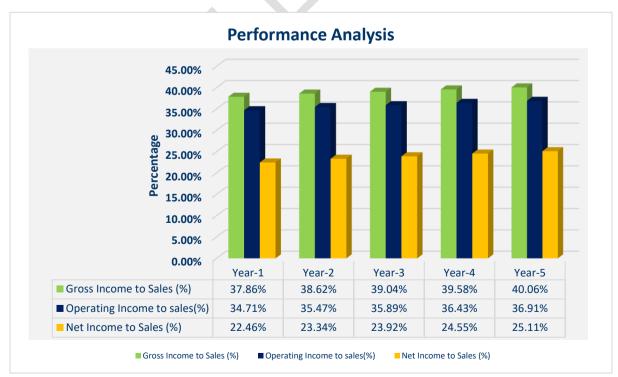
Particulars	1st Year	2nd Year	3rd Year	4th Year	5th Year
Total Debt Payment Obligation(Yearly)	2,432,590	2,506,043	2,533,149	2,558,695	2,584,498
Monthly Debt Obligation(Interest plus Principals)	202,716	208,837	211,096	213,225	215,375



1.10 Projected Financial Performance of the Project

### (i) Sales Revenue, Gross Income, Operating Income & Net Income





### (ii) Performance Analysis



### (iii) Summary of Projected Financials

### **Projected Financial Information**

					Fig. in USD
Particulars	1st Year	2nd Year	3rd Year	4th Year	5th Year
Sales Revenue	22,590,765	26,044,622	27,954,423	29,828,197	31,701,130
Cost of Goods Sold	14,037,505	15,986,705	17,040,811	18,021,337	19,002,242
Gross Income	8,553,259	10,057,917	10,913,612	11,806,860	12,698,889
Operating Expenses	711,840	820,648	880,818	939,854	998,852
Opereating Income	7,841,419	9,237,269	10,032,794	10,867,006	11,700,036
Net Income Before Tax	6,998,758	8,385,712	9,221,310	10,099,883	10,979,854
Net Income After Tax	5,074,100	6,079,641	6,685,450	7,322,415	7,960,394
Earnings Per Share (EPS)	10,148	12,159	13,371	14,645	15,921
Total Assets	34,809,025	40,263,605	44,702,997	49,540,727	54,832,208
Shareholders' Equity	11,068,077	16,372,433	21,915,504	27,962,261	34,523,385
No. of Ordinary Shares	500,000	500,000	500,000	500,000	500,000
Face Value of the Shares	100	100	100	100	100
Net Asset Value (NAV)	22,136	32,745	43,831	55,925	69,047
Projected Key Financials					
Particulars	1st Year	2nd Year	3rd Year	4th Year	5th Year
Gross Income To Sales (%)	37.86%	38.62%	39.04%	39.58%	40.06%
Operating Income To Sales (%)	34.71%	35.47%	35.89%	36.43%	36.91%
Net Income To Sales (%)	22.46%	23.34%	23.92%	24.55%	25.11%
Debt Service Coverage Ratio (Times)	3.42	3.73	3.91	4.10	4.29
Return on investment (ROI)	17.00% 17.21% 16.77%		16.33%	15.83%	
	17.00%	11.2170	10.1170		
Return on Equity (ROE)	45.84%	37.13%	30.51%	26.19%	23.06%
Break Even % on Utilization capacity					23.06% 25.04%
·····	45.84%	37.13%	30.51%	26.19%	
Break Even % on Utilization capacity	45.84% 34.58%	37.13% 30.32%	30.51% 28.38%	26.19% 26.60%	25.04%
Break Even % on Utilization capacity Break Even % on Attainable capacity	45.84% 34.58%	37.13% 30.32%	30.51% 28.38% 21.29%	26.19% 26.60%	25.04%
Break Even % on Utilization capacity Break Even % on Attainable capacity Payback Period	45.84% 34.58%	37.13% 30.32%	30.51% 28.38% 21.29% <b>2.95</b>	26.19% 26.60%	25.04%



(iv) Projected Key Financials (Five Years Average)

	<b>ey Financials</b> Five Years Average)	
Yearly Turnover USD 27.62 mln Net Profit Target USD 6.62 mln	Gross Profit (GP) Operating Profit (OP) Net Profit (NI) IRR ROI ROE Payback period Discounted Payback Period Debt Service Coverage Ratio Break Even (BEP) NPV	

### (v) Sensitivity Analysis (Five Years Average)

	lf	Rate of Interest	Rate	e 0	f Interest is	4% and
Particulars		is 4% and Other things remain constant	If 5% decrease of sales price		5% increase of Raw Materials Cost	If 5% decrease of sales price and 5% increase of Raw Materials Cost
Sales Revenue	\$	27,623,827	\$26,242,636	\$	27,623,827	\$ 26,242,636
Net Income	\$	6,624,400	\$ 5,623,036	\$	6,307,242	\$ 5,305,878
Gross Profit to Sales		39.03%	35.82%		37.43%	34.14%
Operating Income to sales		35.88%	32.51%		34.28%	30.82%
Net Income to Sales		23.88%	21.32%		22.72%	20.10%
Debt Service Coverage Ratio(Times)		3.89	3.50	Γ	3.77	3.37
Internal Rate of Return (IRR)		34.70%	30.57%		33.41%	29.25%
Return on Investment (ROI)		16.63%	14.38%		15.91%	13.66%
Return on Equity (ROE)		32.55%	27.55%		30.91%	25.92%
Payback Period (PB)		2.95	3.27		3.05	3.39
Discounted Payback Period (DPB)		3.18	3.55		3.29	3.69
Break Even % (Utilization Capacity)		28.98%	32.51%		30.20%	34.04%
Net Present Value (NPV) (USD mln)		55.31	46.66		52.73	44.08



### 1.11 Investment Proposal for This Project to Banks/Financial Institutions

Nakshi Green Agro Limited is inviting financial institutions for investing this commercially viable project for implementation of this project with the below features:

# Total Investment Requirement:A. For Long-Term Financing<br/>Project Shed and Building<br/>Others Civils Construction:Imported Machinery & Equipment:Import Duty, Customs, VAT and Insurance<br/>Local Machinery & Equipment:Sub Station (3,500 KVA) with all Accessories<br/>Fire Fighting, Fire Door, Fire Alarm and others<br/>Security Devices, CC Camera, CC TV,<br/>and Compliance Equipment:Vehicles:

B. For Short-Term Loan/Working Capital

Non-Funded LC Facilities Bank Guarantee

Funded LTR Facilities CC Hypo/OD

The above finance will be for:

1.Tenure 2. Short Term Ioan 3. Moratorium Period 4.Proposed Rate of interest 5.Equal Monthly Instalments (EMI) 6.Equal Quarterly Instalments (EQI) 7.Debt-Equity Ratio For Long Term For short Term

### : USD 21.27 mln

: USD 17.72 mln : USD 2.03 mln : USD 0.06 mln : USD 13.99 mln : USD 0.70 mln : USD 0.24 mln : USD 0.17 mln : USD 0.03 mln

: USD 0.02 mln : USD 0.47 mln

: USD 3.55 mln

: USD 2.20 mln : USD 0.10 mln

: USD 0.50 mln : USD 0.75 mln

: 10 years for long term loan

: Revolving basis

- : 24 months for long term loan
- : 4.00%
- : USD 0.58 mln
- : USD 0.19 mln

: 76.36 : 23.64 : 70.00 : 30.00



### 1.12 Use of Fund

**Long-Term Financing:** Project Loan/Term Loan would be utilized for Project Shed and Building, Others Civils Construction (Water reservoir, Internal Road, Main Gate, Boundary wall and Security Room), Imported & Local Machinery and Equipment, Import Duty, Customs, VAT and Insurance, Sub Station (3,500 KVA) with all Accessories, Fire Fighting, Fire Door, Fire Alarm, Security Devices, CC Camera, CC TV, and Compliance Equipment and Vehicle (Sixteen (15)- 15-MT Trucks Capacity) purposes.

**Short-Term Financing:** Short-Term Loan/Working Capital would be utilized for Raw Materials, salaries and wages payments and other operational & production expenses.

### 1.13 Benefit of the Society, Government & Investors

This project will directly contribute to the GDP USD 11.57 mln. In addition, 166 jobs will be created from this project. Investors including financial institution will be benefited due to huge potentials of this project. As this project is showing satisfactory & acceptable trends of Gross profit and Net profit over the next five (05) years, investors will get outstanding outcome from this project.



### Conclusion

The Business Plan of the project has been examined and analyzed from the view point of marketing, technical, financial and management aspects and found to be worthwhile, promising and desirable for investment. As per market study and analysis, there is huge business potential in the Agro Product Manufacturing and Processing Industry which can easily consume the whole capacity of the project.

On the basis of financial analysis, it can be undoubtedly said that the project is financially viable, technically possible and demandable in present market scenario of the country as well as the world. The analyzed ratio shows satisfactory and acceptable results.

The project will have sufficient liquidity to meet all its obligations from its operations. The break-even analysis shows sound position. The IRR indicates comfortable rate of return. The payback period is 2.95 years, Discounted Payback period is 3.18 years and Internal Rate of Return is 34.70% which indicate a good financial performance in terms of early pay back and cost of borrowing perspective scenario. The project will contribute much to the national economy. After implementation of the project, it will generate employment of 166 people in different categories. All the above parameters of investment feasibility criteria indicate that it will be able to generate sufficient revenue from its operation to pay back its financial obligations and annual operational expenses.

The Agro Product Manufacturing and Processing Industry by nature is less prone to negative impacts of economic cycles. Due to huge potentials during the past few years, the sector will enjoy significant growth in the near term.

In the view of the above, it reveals that the project is technically feasible, financially rewarding and economically & commercially viable and may, therefore, be considered suitable for investment.



### 2. Declarations and Due Diligence Certificate

DECLARATION ABOUT THE RESPONSINGAITY OF THE DIRECTOR(S), INCLUDING THE MANAGING DIRECTOR OF THE COMPANY "NAKSHI GREEN AGRO LIMITED" IN RESPECT OF THIS FEASIBILITY REPORT & BUSINESS PLAN.

The Feasibility Report & Business Plan has been prepared, seen and approved by us, and we, individually and collectively, accept full responsibility for the authenticity and accuracy of the statements made, information given in the report, documents, projected financial statements, exhibits, annexes, papers submitted to the your financial institution in support thereof, and this report has been met and that there are no other information or documents the omission or which make any information of statements therein misleading for which the respective financial institutions may take any civil, criminal of administrative action against any of all of us as it may deem fit.

We also confirm that full and fair disclosure has been made in this report to enable the investors or financial institution to make a well-informed decision for investment.

Md. Salahuddin Mahmud Khan Ujjal Managing Director Nakshi Green Agro Limited Mobile: +8801716977292 +8801779799436 Email: smkhanuzzal@yahoo.com nakshigreenagro@gmail.com



### 3. The Sponsors, Management and Human Resource

### 3.1 About Nakshi Green Agro Limited (NGA)

**Nakshi Green Agro Limited (NGA)** was incorporated as a Private Limited Company on 12<sup>th</sup> August, 2020 bearing Incorporation No.: C-162285/2020. The Authorized Share Capital of the Company is USD 50,000,000.00 (Five Crore) divided into 500,000.00 (Five Lakhs) Ordinary Shares of BDT 100.00 (One Hundred) each.

NGA is going to set up an Automatic Agro Product Manufacturing and Processing Plant with an objective of producing export quality Corn Starch, Liquid Glucose, Dextrose, Corn Gluten Meal (CGM), Corn Germ, Corn Fiber, Corn Steep Liquor (CSL) to meet the demand of domestic & international market.

For this project, NGA has taken approval from appropriate authorities of Bangladesh Government. Some legal information of NGA are as follows:

- Incorporation Certificate: C-162285/2020
- Trade License: TRAD/DSCC/013178/2020

### 3.2 List of Directors & Shareholding Structure of NGA

Name of Directors	Status	No. of Shares	% of Shares
Syeda Fahmina Akter	Chairman	30,000	30.00%
Md. Salauddin Mahmud Khan Uzzal	Managing Director	45,000	45.00%
Md. Salauddin Khalid Khan	Director	10,000	10.00%
Anowar Shamim	Director	10,000	10.00%
Md. Zakir Hussain	Director	5,000	5.00%
Total		100,000	100.00%



### 3.3 Sponsors, Promotors, Directors, Top Management and Their Background

**Ms. Syeda Fahmina Akter**, is the Chairman of Nakshi Green Agro Limited.

She completed his BSS from a reputed university of Bangladesh. She has a vast experience in the field of computer networking.

She also has over twenty (20) Years of Experience in Agro Product Manufacturing and Processing sector, which will help to contribute much to this project. She is also a good Social Worker and Organizer.

Syeda Fahmina Akte	r					
Chairman, Nakshi G	een Agro Ltd					
Father's Name :	Syed Faroque Nabi					
Mother's Name :	Seyda Umma Kulsum					
Present Address :	Village: Betdoba (North), P.S.: Kalihati, Dist.:					
Present Address .	Tangail, Bangladesh					
Permanent Address :	Flat: 9/A, House: 28, 29, West Dhanmondi,					
Permanent Address .	Shankar, Dhaka, Bangladesh					
Date of Birth :	02/07/1976					
e-TIN :	282130492212					
NID No. :	19779324704228549					
Marital Status :	Married					
Religion :	Islam					
Nationality :	Bangladeshi					
Educational	BSS					
Qualification .	0.3.3.					
Business Career :	Over 20 Years					

Every business needs certain

individual for stability and smooth operation, whose presence inspires people and provides the guidance to reach their goal. She is one of those people who, like the captain of a ship, always help to maintain smooth business operation of the company. As a Chairman, she will participate in each and every business activities of the company. With her direct guidance, NGA will reach its goal in a very short span of time.

Md. Salauddin Mahmud Khan Ujjal

**Md. Salauddin Mahmud Khan Ujjal**, is the Managing Director of Nakshi Green Agro Limited. He completed his BSS and MSS, major in social science from Dhaka University.

He has vast experience in the Printing and Publication industry. He is also a good Social Worker and Organizer. He is also involved with various community activities which includes:

- General Secretary: Metropolitan Press Owner's Association Bangladesh.
- Joint Secretary: Printing
   Industries Association of Bangladesh.
- General Member: The Federation of Bangladesh Chambers of Commerce & Industry (FBCCI)
- General Member: Dhaka Boat Club.

Every business needs certain individual for stability and smooth operation, whose presence inspires people and provides the guidance to reach their goal. He is one of those people who, like the captain of a ship, always helps to maintain smooth business operation of the company. As a managing director, he will participate in each and every business of the company. With his direct guidance, NGA will reach its goal in a very short span of time.

Managing Director,	Na	akshi Green Agro Ltd
Father's Name	:	Md. Shahadat Ali Khan
Mother's Name	:	Kohinur Begum Hazera
Present Address		Village: Betdoba (North), P.S.: Kalihati,
Fieseni Audress	•	Dist.: Tangail, Bangladesh
Permanent Address		House: 28, 29, West Dhanmondi,
	•	Shankar, Dhaka, Bangladesh
Date of Birth	:	01/02/1971
e-TIN	:	581165497660
NID No.	:	19729324704228548
Marital Status	:	Married
Religion	:	Islam
Nationality	:	Bangladeshi
Educational		M.S.S
Qualification	•	101.0.0

Over 25 Years



**Mr. Salauddin Khalid Khan Harun**, is the Director of Nakshi Green Agro Limited. He completed his Bachelor of Arts from a reputed university of Bangladesh.

After finishing his graduation, he served many renowned companies in home and abroad. He has over 20Years Experience as an Assistant Manager in Al-Raji Company, Kingdom of Saudi Arabia (KSA) 2) and over 5 Years' Experience of Maintaining Real Estate & Developer Business.

Salauddin Khalid Khan Harun						
Director, Nakshi Gre	en Agro Ltd					
Spouse's Name :	Md. Sahadat Ali Khan					
Mother's Name :	Kohinur Begum Hazera					
Present Address :	Village: Betdoba (North), P.S.: Kalihati, Dist.:					
Present Address .	Tangail, Bangladesh					
Permanent Address :	House: 82, West Dhanmondi, Shankar, Dhaka,					
Permanent Address .	Bangladesh					
Date of Birth :	01/04/1962					
e-TIN :	1401021173					
Passport No. :	AE7597367					
Marital Status :	Married					
Religion :	Islam					
Nationality :	Bangladesh					
Educational	B.A.					
Qualification	D.A.					
Business Career :	Over 30 Years					

He is also involved with various Social Works and is a good Social Worker as well as organizer. Every business needs certain individual for stability and smooth operation, whose presence inspires people and provides the guidance to reach their goal. He is one of those people who, like the captain of a ship, always helps to maintain smooth business operation of the company.

As a director, he participates in each and every business of the company. With his direct guidance, NGA will reach its goal in a very short span of time.

**Mr. Anowar Shamim**, is one of the Directors of Nakshi Green Agro Limited. He completed his B.Sc in Engineering (Mechanical) from a reputed institution.

He has vast experience in the Agro Product Manufacturing and Processing industry. He is also a good Social Worker and Organizer. He is also involved with various community activities.

Every business needs certain individual for stability and smooth operation, whose presence inspires people and provides the guidance to reach their goal. He is one of those people who, like the captain of a ship, always helps to maintain

Anowar Shamim		
Director, Nakshi Gre	en	Agro Limited
Father's Name	:	Abul Kasam
Mother's Name	:	Bilkis Begum
Present Address	:	622/21, mizan squire, kazipara,mirpur Dhaka-1216
Permanent		Village:Charsuvi,Word-5,
Address	•	Thana:Daulatkhan-8310, Zilla: Bhola
Date of Birth	:	10.12.1994
e-TIN	:	430285570406
NID No.	:	1502254004
Marital Status	:	Unmarried
Religion	:	Islam
Phone	:	+8801881076407
E-mail	:	shamimrahman70@gmail.com
Nationality	:	Bangladeshi
E ducational Q ualification	:	B.Sc in Engineering (Mechanical)

smooth business operation of the company. As a Director, he will participate in each and every business of the company. With his direct guidance, NGA will reach its goal in a very short span of time.



**Md. Zakir Hussain**, is the Director of Nakshi Green Agro Limited.

He completed his Bachelor of Arts (Hons) and M.A. (Masters) from a reputed university of Bangladesh.

After finishing his graduation, he served many renowned companies in home and abroad.

He is also involved with various Social Works and is a good Social Worker as well as organizer.

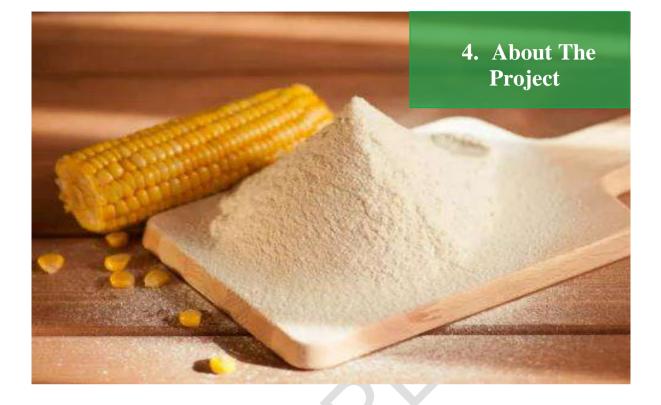
Every business needs certain individual for stability and smooth operation, whose presence inspires people and provides the guidance

Md. Zakir Hussain	Md. Zakir Hussain						
Director, Nakshi Gree	en Agro Limited						
Father's Name :	Md. Abdul Mussawair						
Mother's Name :	Late Jahanara Begum						
	Flat # 5/A, House # 1/3/A, Block # C,						
Present Address :	Lalmatia Housing Socity, Lalmatia,						
	Mohammadpur, Dhaka.						
Permanent .	House # 13, Agrani R/A, Sayef Khan Road,						
Address	West Subid Bazar, Sylhet-3100.						
Date of Birth :	30.05.1971						
e-TIN :	519589744917						
NID No. :	326 960 2185						
Marital Status :	Married						
Religion :	Sunne Muslim						
Phone :	+8801711114720						
E-mail :	mdzakir_hussain@yahoo.com						
Nationality :	Bangladeshi						
Educational							
Qualification	B.A. (Hons) & M.A.						

to reach their goal. He is one of those people who, like the captain of a ship, always helps to maintain smooth business operation of the company.

As a director, he will participate in each and every business of the company. With his direct guidance, NGA will reach its goal in a very short span of time.





### 4.1 Brief Description of Project & Product

**Nakshi Green Agro Limited (NGA)** is going to start an Agro Product Manufacturing and Processing Project where Corn Starch, Liquid Glucose, Dextrose, Corn Germ, Corn Gluten Meal (CGM), Corn Fiber and Corn Steep Liquor (CSL) will be manufactured.

The attainable production capacity will be 190,000 kg per day, 4,750,000 kg per month and 57,000,000 per year. Product loss/wastage has been considered 5.00% for this project. The factory will be operated for twenty (20) hours per day.

Type of Products	Product Category	Production Mix	Total Production Capacity/ Per day 20 hours /KG					
		(%)	Unit	Daily	Monthly	Yearly		
Corn Starch	Main Product	30.00%	KG	60,000	1,500,000	18,000,000		
Liquid Glucose	Main Product	25.00%	KG	50,000	1,250,000	15,000,000		
Dextrose	Main Product	12.50%	KG	25,000	625,000	7,500,000		
Corn Germ	By Product	6.50%	KG	13,000	325,000	3,900,000		
Corn Gluten Meal (CGM)	By Product	5.50%	KG	11,000	275,000	3,300,000		
Corn Fiber	By Product	12.00%	KG	24,000	600,000	7,200,000		
Corn Steep Liquor (CSL)	By Product	3.50%	KG	7,000	175,000	2,100,000		
	Grand Total	95%		190.000	4.750.000	57.000.000		

The attainable production capacity and product matrix have been illustrated below:

The project will be located at Meduari, Varadoba, Bhaluka, Mymensingh, Bangladesh where total land size of this project is 339.00 decimals and 210,701 sft civil constructions will be constructed.



### 4.2 Market Potentials of the Project

The Bangladesh government is now encouraging farmers to grow corn, because its strong reliability as a crop can improve financial security. Maize is currently grown on more than 101,300 hectares in the northern region, which produces one-third of the national supply,

According to government figures. With training, financial assistance and incentives, the government is encouraging farmers all over Bangladesh to grow corn in a bid to move away from thirstier crops and meet demand. The production of corn, also known as maize, rose 12.50 per cent year-on-year to 40.15 lakh tons in the fiscal year 2019-20.

The agriculture ministry has set a target to produce one Crore tons of the grain by 2025 through innovation and modern technical assistance. In 2021, Bangladesh exported \$37.3k in Corn, making it the 127th largest exporter of Corn in the world. At the same year, Corn was the 564th most exported product in Bangladesh. According to the Trade Data Monitor, global corn exports to Bangladesh rose 39.2 per cent over the first five months in the current marketing year compared to last year.

### 4.3 Location and Addresses

### 4.3.1 Project Location

The proposed project will be located at Meduari, Varadoba, Bhaluka, Mymensingh, Bangladesh.

### 4.3.2 Corporate Address

Name of the Company	: NAKSHI GREEN AGRO LIMITED
Corporate Address	: House # 42/A (4th Floor), Road# 9/A, Dhanmondi,
	Dhaka-1209, Bangladesh
Contact Person	: Md. Salahuddin Mahmud Khan Ujjal
Designation	: Managing Director
Mobile	: +8801716977292, +8801779799436
Email	: smkhanuzzal@yahoo.com, nakshigreenagro@gmail.com



### 5. Land and Land Development, Machinery & Equipment, Power & Utilities

### 5.1 Land and Land Development

In this project there is total 339.00 decimals land which has been valued USD 1.03 mln where per decimal cost has been estimated USD 3,043.00. The details are as follows:

	Agro Produc	akshi Green Agro Limite ot Manufacturing and Proce Land and Land Develop	essing Plant			
S.N	Description	Purposes	Decimals	Estimated Value per decimal	Toal Estimated Cost(Fig. in USD)	
1	Land and Land Development	For Factory	339	\$ 3,043	\$ 1,031,739	
	Total		339		\$ 1,031,739	

### 5.2 Civil Constructions

In this project, civil constructions for project shed & building cost has been estimated USD 3.39 mln. Other civil constructions cost such as main gate, boundary wall, internal road etc cost has been estimated USD 0.08 mln. The details are as follows:

	Nakshi Green Agro Limited           Agro Product Manufacturing and Processing Plant           Estimated         Civil Cost           Per Square Feet         To								
S.N	Item No/ Description	Item No/ Description Unit Total Size Estimated Co Cost(USD)							
1	Starch M. Workshop Multi-storied building (Civil)	SFT	20,631	\$ 14	\$ 296,010				
2	Starch M. Workshop Multi-storied building (Steel)	SFT	55,000	\$ 13	\$ 741,304				
3	Starch Finished Goods, by products and ware house multi- storied Civil	SFT	12,000	\$ 10	\$ 116,870				
4	Starch Finished Goods, by products and ware house multi- storied Steel	SFT	24,000	\$ 12	\$ 292,174				
5	Liquid Glucose Multi-storied building Civil	SFT	3,410	\$ 15	\$ 51,891				
6	Liquid Glucose Multi-storied building Steel	SFT	8,230	\$ 12	\$ 98,488				
7	Dextrose Multi-Storied building civil	SFT	3,230	\$9	\$ 27,525				
8	Dextrose Multi-Storied building Steel	SFT	4,000	\$ 14	\$ 56,000				
9	Construction Civil Cost of Generator & Sub-Station	SFT	3,200	\$ 17	\$ 55,652				
10	Construction Civil Cost of Silo Civil	SFT	42,000	\$ 22	\$ 913,043				
11	Water Reserve Tank	CFT	5,000	\$5	\$ 23,913				
12	Construction Civil Cost of Office Building with officer dormitory	SFT	10,000	\$ 22	\$ 217,391				
13	Construction Civil Cost of Dormitory Building worker	SFT	6,000	\$ 22	\$ 130,435				
14	Cost of ETP Civil Construction	SFT	14,000	\$ 26	\$ 365,217				
				\$-	\$-				
				\$-	\$-				
	Total				\$ 3,385,915				

	Agro Product Manufac	en Agro Limite turing and Proc Others Civil Cos	essing Plant			
S.N	S.N Item No/ Description Purposes Size/Square Per Square Feet Estimated Cost					
1	Security house and Main factory gate	Main Factory	LS	-	\$ 21,73	9
2	Boundary Wall	Main Factory	RFT		\$ 20,13	6
3	Internal Road, Drainage and Sewerage	Main Factory	LS	-	\$ 43,04	-3
	Total		-		\$ 84,918	3



### 5.3 Machinery & Equipment

In this project, imported machineries and equipment cost has been estimated USD 15.54 mln and local machinery & equipment cost has been estimated USD 0.35 mln. The details machinery list are as follows:

Nakshi Green Agro Limited Agro Product Manufacturing and Processing Plant. Imported Machineries and Equipment										
SN.         Particulars         Purposes         Unit         Quantity         Unit Price         Dollar Conversion         Total Estimated Price(USD)         Origin										
1	Corn Wet Mill 200TPD Starch Line	Starch Manufacturing	Set	1	\$ 6,700,000	115.00	\$ 6,700,000	China		
2	Liquid Glucose Line 50TPD	Glucose Manufacturing	Set	1	\$ 2,300,000	115.00	\$ 2,300,000	China		
3	Dextrose Mill 30TPD Line	Dextrose Manufacturing	Set	1	\$ 2,210,000	115.00	\$ 2,210,000	China		
4	Grain Storage Steel Silo 10000MT X 4 Unit	Corn/ Maize Storage	Set	1	\$ 2,701,200	115.00	\$ 2,701,200	Turkey		
5	12 Ton Capacity LPG Steam Boiler	Starch Plant	Set	1	\$ 495,000	115.00	\$ 495,000	U.K		
6	2 Ton Capacity LPG Steam Boiler	Glucose Plant	Set	1	\$ 212,400	115.00	\$ 212,400	U.K		
7	1250 KVA Disel Generator	Electricity Backup	Set	1	\$ 300,800	115.00	\$ 300,800	U.K		
8	Solar Panel(1250 KVA)	Electricity Backup	Set	1	\$ 325,000	115.00	\$ 325,000	U.K		
9	Effuent Treatment Plant	For Water Discharge	Set	1	\$ 300,000	115.00	\$ 300,000			
				1						
				Total B	stimated Cost		\$ 15,544,400			

		Agro Produ	akshi Gree Ict Manufactu cal Machinerio	ring and Pro	cessing	Plant.			
SN.	Particulars	Purposes	Unit	Quantity	Unit	t Price(USD)	1	al Estimated Price(USD)	Origin
1	S.S Tank	For Factory	Pcs	10	\$	2,174	\$	21,739	
2	Laboratory Equipments and Devices	For Lab	Set	2	\$	43,478	\$	86,957	
3	Electrical Control Boad, Electrical Goods and Cables	For Factory	Lumsump				\$	217,391	
4	Miscelleneous Items	For Factory	Lumsump				\$	21,739	
*******	*****	***************************************		******	Total E	stimated Cost	\$	347,826	



### 5.4 Power & Utilities Required

			Neteric	and the second second				
				reen Agro Limited				
		Agro P	roduct Manufa	acturing and Processing Plant.				
	Reau	uirement of Ele	ctricity, LPG G	as, Fuel, Lubricant and Others Utilities	s Cost			
			· · · · · <b>,</b> · · · · ·	,,				
Electricity Cost				GAS Boiler Cost				
Maximum Load(KVA)	:	3,500	KVA	Gas Boilar Capacity	:		14,000	KGS/H
Maximum Load(kw)	:	2,800	kW	Per hour gas consumption	:		700	kg/H
Daily consumtion hours	:	19	hours	Hours Used	:		20	hours
Yearly Working Days	:	300	Days	Yearly Working Days	:		300	days
Monthly Working Days	:	25	Days	Monthly Working Days	:		25	days
Power Rate(KW-H) in (USD)	:		USD/Per Unit	GAS Cost (USD)	:			USD/kg
Daily Electricity Consumption	:	53,200		Daily Gas Consumption	:		14,000	
Monthly Electricity Consumption	:	1,330,000		Monthly Gas Consumption	:		350,000	kg
Annual Electricity Consumption	:	15,960,000	kW	Annual Gas Consumption	:		4,200,000	kg
Daily Electricity Cost (USD)	:	\$ 4,549		Daily LPG Gas Cost (USD)	:		\$ 10,835	
Monthly Electricity Cost (USD)	:	\$ 113,715		Monthly LPG Gas Cost (USD)	:		\$ 270,870	
Annual Electricity Cost (USD)	:	\$ 1,364,580		Yearly LPG Gas Cost (USD)	:		\$ 3,250,435	
		*******	***************************************					
Diesel Generator Cost		1		Vehicle Diesel Cost for 16 Truck				
Maximum Load	:	750	KVA	No. of Diesel Vehicles	:		16	
Load Factor used (Max)-80%	:	600	Kw	Daily Diesel Requirement/each	:		30	Ltr
Hours Used/day	:	1	hours	Daily Total Diesel Requirement	:		480	Ltr
Yearly Working Days	:	300	Days	Monthly Total Diesel Requirement	:		12,480	Ltr
Monthly Working Days	:	25	Days	Yearly Total Diesel Requirement	:		3,744,000	Ltr
Per hour fuel consumption	:	51.48	Ltr	Per Litre diesel cost (USD)	:		1	USD/Per Litre
Fuel cost/Ltr (USD)	:	\$ 0.99	USD/Per Liter	Daily Diesel Cost (USD)	:		\$ 476	
Daily fuel Consumption	:	51	Ltr	Monthly Diesel Cost (USD)	:		\$ 11,896	
Monthly fuel Consumption	:	1,287	Ltr	Yearly Diesel Cost (USD)	:		\$ 142,748	
Annual fuel Consumption	:	15,444	Ltr					
Daily Diesel Cost (USD)	:	\$ 51		Others Utilities Lumsump Cost		Daily	Monthly	Yearly
Monthly Diesel Cost (USD)	:	\$ 1,327		Lubricant(Mobil,Grease and Break Oil)	\$	9	\$ 252	\$ 3,026
Yearly Diesel Cost (USD)	:	\$ 15,923		Treated Water	\$	-	\$-	\$-
				Waste Water Treatment	\$	43	\$ 1,087	\$ 13,043
				Total Cost	\$	52	\$ 1,339	\$ 16,070
				Total Estimated Utility Cost	:		Amount in USD	
				Daily Utility Cost	:		\$ 15,962	
				Monthly Utility Cost	:		\$ 399,146	
				Yearly Utility Cost	:		\$ 4,647,007	



#### 5.5 Miscellaneous

#### 5.5.1 Sub Station

In this project, Sub Station (3,500 KVA) with all Accessories Cost has been estimated USD 0.22 mln.

#### 5.5.2 Fire Fighting, Fire Door, Fire Alarm and others

In this project, Fire Fighting, Fire Door, Fire Alarm and others cost has been estimated USD 0.04 mln.

#### 5.5.3 Security Devices, CC Camera, CC TV, and Compliance Equipment

In this project, Security Devices, CC Camera, CC TV, and Compliance Equipment cost has been estimated USD 0.03 mln.

#### 5.5.4 Vehicles

In this project, Vehicle (Sixteen (15)- 15-MT Trucks Capacity) cost has been estimated USD 0.58 mln.

#### 5.5.5 Security Deposit and Advance for Utility

In this project, Security Deposit and Advance for Utility cost has been estimated USD 0.04 mln.

#### 5.5.6 Office Decoration, Furniture-fixture & Office Equipment

In this project, Office Decoration, Furniture-fixture & Office Equipment cost has been estimated USD 0.06 mln.

#### 5.5.7 Preliminary expenses & Consultancy fees

In this project, Preliminary expenses & Consultancy fees have been estimated USD 0.03 mln

#### 5.5.8 Contingency for Civil Constructions, Machinery & Equipment

In this project, 5.00% Contingency for Civil Constructions, Machinery & Equipment has been considered.

#### 5.5.9 Stores & Spares

In this project, stores and spares has been assumed 1.00% in first year, 1.50% in second year and 2.00% in third year.



#### 6. Risk Factors and Management's Perceptions about the Risks

There are risks associated with all investment decision. The investors (Banks/ Financial Institutions/ Private Equity) should be aware of those risks. These risks could result in loss of income or capital investment. Before making any investment decision the investors should carefully consider the following risks in addition to the information contained in the Feasibility Report & Business Plan for evaluating the said offer and whether to invest in the project or not.

**Credit Risk:** This is the risk of default on a debt that may arise because of default by the borrower to pay the loan. In operating any business there is always credit risk lies in the business. As there is always lending and borrowing between parties in the form of money and goods.

**Management Perception:** Credit Risk mainly lies with banks and Financial Institutions. Since NGA has good management team who are professional sound to handle this risk efficiently. However, a certain degree of credit risk lies because of this obligation. The management will be well aware of this and management tries to manage it efficiently through continuous supervision.

**Liquidity Risk:** The risk that a company may be unable to meet short term financial demands. This usually occurs due to the inactivity to convert its current assets to cash without a loss of capital or income. Liquidity is a common phenomenon of the business.

**Management Perception:** NGA will deal with its working capital in efficient way to maintain liquidity risk. Management will develop comprehensive marketing team who will work target wise for selling the apartments quickly.

**Interest rate risk:** Interest rate risk is associated with the fluctuations in market interest rates which cause a company's cost of debt to increase. A company having significant borrowed fund faces interest rate risks when the rate of interest fluctuates unfavorably due to volatility in money market. Changes in the Government's monetary policy also tend to increase the interest rates. High rate of interest may adversely affect the operating results and financial performance of companies having borrowed fund of significant volume. Increase in the interest rate burdens the company with additional financial charges and squeezes the profit of the company.

**Management perception:** The management of NGA will be aware of the volatility of the money market in Bangladesh. The Management of the Company believes that rising interest rates will not substantially affect the Company. The management of the company will emphasize on equity-based financing to reduce the dependency on borrowings. The management will strongly believe that fluctuation of interest rate would have a little impact upon the performance of NGA.

**Industry Risks**: Industry risk could have an adverse impact on the business, financial condition and results of operation.

**Risk of volatility of raw materials' costs**: The cost of raw materials is volatile. Sometimes price hikes due to scarcity of raw materials or artificial demand creation.

**Management Perception**: The management of Nakshi Green Agro Limited is aware of the continuing market situation of its raw materials cost. They believe that long term planning for raw materials management will reduce the above risk and the management will also develop truthful relations with the suppliers which will mitigate the risk of rising of material cost.



### 7. Market Study and Demand Projection

### 7.1 Overview of the Finished Products

The overview of the finished products of Nakshi Green Agro Limited are illustrated as follows:

Name of Product	Details
Corn Starch	Corn starch is important in the food industry as its viscosity, binding and taste of food. Corn starch natural characteristics make it a unique ingredient, providing functional properties to a wide product array. Used for bakery products, snacks, desserts, sauces, dressings, pastry, candy, noodles, soup, gravies, puddings, yogurt, custards, butter, dairy, breads, frozen foods, fruit drinks, syrup products, exclusive use in pharmaceuticals etc.
Technical Use	Adhesives: Carrier builder and raw paste, coated: superficial polishing or adhesive in multilayer cardboard, thickening, in adhesive paste and textile coating, lubricant, transportation circuits, coagulant, in fertilizer co-formation, gypsum plaque. Demand textile mill, paper mill, printing & packing industry, biodegradable bag etc.
Corn Gluten Meal (CGM)	Byproduct of the corn wet milling. Ingredient of high energy proteins – that consists on concentrated of insoluble proteins of the grain of corn. Supplies vitamins, minerals & energy in animal feed.
Corn Germ Fiber	Byproduct of the corn wet milling. Use corn oil and animal feed, corn oil has replaced a significant amount of saturated fat in numerous food products. Byproduct of the corn wet milling. Used in
Corn Steep Liquor	animal feed production. Byproduct of the corn wet milling. Used in animal feed production.
Liquid Glucose	Glucose syrup is obtained by cornstarch partial hydrolysis, comprising dextrose, maltose and polysaccharides. It is used for candy, pastry, ice creams, nougat or bubble gum production, as well as other branches in food industry etc.
Dextrose	It is used for pharmaceutical industry and beverage industry.



#### 7.2 Overview of Corn Starch

Corn starch, maize starch, or cornflour is the starch derived from corn (maize) grain. The starch is obtained from the endosperm of the kernel. Corn starch is a common food ingredient, often used to thicken sauces or soups, and to make corn syrup and other sugars. Corn starch is versatile, easily modified, and finds many uses in industry such as adhesives, in paper products, as an anti-sticking agent, and textile manufacturing. It has medical uses as well, such as to supply glucose for people with glycogen storage disease.

Corn starch can be used as Thickener, Texturizer, Lubricant, Gelling agent etc. It helps in modelling and handling of paste operations. Corn starch is important in the food industry as its viscosity, binding and test of food. Corn starch natural characteristics make it a unique ingredient, providing functional properties to a wide product array. Used for bakery products, snacks, desserts, sauces, dressings, pastry, candy, noodles, soup, gravies, puddings, yogurt, custards, butter, dairy, breads, frozen foods, fruit drinks, syrups products, etc.

Low Humidity Native Starch is used as a food additive in products or processes where humidity is critical, like ready-mixed powder, dehydrated products or non-compression additive in granular solids. It keeps humidity balance, ensuring final product state and conservation.

Corn Starch Pharmaceutical Use: Pharmaceutical quality corn starch has a specific treatment that improves its microbiological quality, and makes it fit for cosmetic and pharmaceutical use.

#### **Properties and uses**

Pharmaceutical quality corn starch is used mainly as excipient, absorption agent, diluent and disintegrating agent in pills and tablets. When cooked formulations are used, it functions as a binding agent among components.

- Corn starch, Technical use:
- Properties and uses
- Adhesives: carrier builder and raw paste.
- Coated: superficial polishing or adhesive in multilayer cardboard.
- Thickening, in adhesive paste and textile coating.
- Lubricant, transportation circuits.
- Coagulant, in fertilizer co-formation.
- Gypsum plaque



#### 7.3 Overview of Liquid Glucose

Liquid Glucose is the syrup form of glucose which is a sugar and is one of the derivatives of corn starch or maize starch. Also known as glucose syrup or confectioner's syrup, this derivative is made from the hydrolysis of starch. Liquid glucose which consists of more than 90% glucose is used in industrial fermentation but it is important to know that the syrups used in confectionery may consist of different amounts of maltose, glucose, and higher oligosaccharides and may have about 10-43% of glucose content.

The uses of liquid glucose are as follows:

**Flavour enhancer**: The first and major benefit of liquid glucose is that it acts as a flavour enhancer in candies and other kinds of foods.

**Crystallizing:** Another important application of the corn syrup is that it helps in controlling sucrose and dextrose crystallization in confections. It is primarily used in hard candies since candies that are made using sucrose alone are treated to crystallization and may be brittle.

**Stabilizer:** Liquid glucose also finds use as a stabilizer and can greatly enhance the shelf life of certain products. What it does is that it helps in reducing the freezing point and therefore reduces the manufacturer's freeze time. It also improves the freezer capacity.

**Texture enhancer**: Yet amongst the important liquid glucose uses is that it acts as a texture enhancer and may lend a smooth texture and body to products ice creams and other types of frozen desserts. Basically what glucose syrup does is that it aids in the elimination of graining.

**Fermentation**: Another important application of Indian liquid glucose is that it acts as an economical source of fermentable solids and is thus a popular product in the baking industry. Not only does it provide density control to bakery items but also lends sweetness. It is also responsible for adding a richer crumb colour.

**Humectants**: Liquid glucose increases the humectancy levels in some kinds of baked items. This further increases the shelf life of such products. Baked items which have icing produced with glucose syrup have a much better sheen as well as the appearance and thus lend a glaze on them.

**Adjuncts:** Corn syrup also has a lot of advantages as an adjunct. An adjunct basically is used to supplement malted barley in the process of brewing. Not only is liquid glucose totally soluble and reasonably priced but also extremely adaptable and easy to handle. It is an ideal liquid for high gravity brewing methods which helps in raising the overall brew house produce and efficiency.



#### 7.4 Overview of Dextrose

Dextrose is a type of sugar that usually comes from corn or wheat. It is almost identical to glucose, which is the sugar found in the bloodstream. For that reason, it can be quickly used as a source of energy by the human body. Dextrose is often used in foods as an artificial sweetener or a preservative.

#### 7.5 Overview of Corn Germ

Corn germ, popularly known as maize germ is the germ which makes up for 6-8% of the total weight of the corn grain. It also consists of 50% of the total oil quantity present in corn. It plays the role of the primary product that is used to make corn oil and also forms an important ingredient of animal food or fodder. If you wish to know the details of the constituents of this product, you can go through the following given information.

Corn germ consists of 14% saturated fatty acids and unsaturated fatty acids as well. The part of it which is the protein consists of 51% glutelin, 37% globulins, 5% of zein and 7% quantity of non-soluble oils. Maize germ also have in them present a large content of amino acids, phytin, beta sitostiron and Vitamin E.

Basically, maize germ is a derivative or by-product of the process of oil extraction from maize germs which are obtained from maize processing. Let's learn about the various uses and applications of corn germ.

The first and most important use of corn germ is that it forms a great ingredient for all the livestock species. For cows that are required to produce high yield milk, giving high protein and energy foods are necessary. The natural bypass oil content present in corn germ helps with the same.

What happens is that all kinds of poultry feeds must have high energy content and use of corn germ is a superb way of guaranteeing that the energy and oil levels for poultry feed are up to satisfactory levels.

What happens is that it quickly and easily absorbs several liquids such as tallow and molasses and therefore is a great carrier of liquid nutrients.

Corn germ is also used for feeding pets since apart from its high nutrient content; it has a beneficial effect on the coat of the animal when producing feeds for pets.

Another use of maize germ is for feeding pigs since corn germ consists of high unsaturated fatty acids and high vegetable oil. Another reason for the same is that it is an easy to digest and natural fiber which is convenient for the pigs to eat. Also, corn germ easily increases the energy content in the feeds of pigs.

In most of the cases, corn germ meal is mixed together with several other by-products to result in a final feed product. In the case of wet milling, the used or spent germs are mixed along with maize bran and maize steep liquor to result in corn gluten feed. Whereas on the other hand, in the case of the dry milling process, the used germs are mixed with broken kernels pericarp and inseparable fractions of germs to result in hominy feed.



#### 7.6 Overview of Corn Gluten Meal (CGM)

Corn Gluten Meal (CGM) is a valuable byproduct of the normal corn milling process. It remains after the extraction of the starch and germ and the subsequent separation of the corn bran.

CGM is a protein-rich feed that is used as a source of protein, energy and pigments for livestock species including fish. Furthermore, it has a good proportion of undegradable protein that is essential for high producing ruminants. As with other feedstuffs, CGM must be properly supplemented with the necessary vitamins, minerals and amino acids.

Due to its high protein content, CGM is widely used as an alternative to other plant or animalbased proteins, such as Soybean Meal, Meat and Bone Meal and Fish Meal. CGM is also a valuable source of energy, due to its high gross energy (23.1 MJ/kg DM) coupled with high energy digestibility.

#### 7.7 Overview of Corn Gluten Meal (CGM)

Corn steep liquor has been used as a feed additive for livestock, and as a bait attractant for carp. It is used in food production of yeasts, leavened dough products, and beer. It is a good additive for microbial growth media and hence plays a vital part in the production of penicillin, colirecombinant proteins, and other bacterial products such as enzymes, organic acids, cellulose, and biodegradable plastics. It has industrial applications in converting municipal waste compost for organic farming, biodegradation of crude oil, microbial induced carbonate precipitation for remediation of cracks in concrete. More recently, corn steep liquor has been used as a plant fertilizer.





Agro Product Manufacturing and Processing Project

**Private & Confidential** 

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**PROJECTED** 



### 8. Financial Analysis of the Project

### 8.1 Key Assumptions

	Project Information
Name of the Project	: Nakshi Green Agro Limited
Type of Project	: Agro Product Manufacturing and Processing Plant
Nature of the Project	To manufacture Corn Starch, Liquid Glucose, Dextrose, Corn Germ, Corn Gluten Meal (CGM), Corn Fiber and Corn Steep Liquor (CSL).
Location of The Project	: Meduari, Varadoba, Bhaluka, Mymensingh, Bangladesh.
Corporate Head Office	House # 42/A (4th Floor), Road# 9/A, Dhanmondi, Dhaka-1209, Bangladesh.
Legal Formation of the Project:	: Private Limited Company
Life of The Project	: 30 years
Project Land	: Total 339 Decimals for this project.
Contact Person	Md. Salahuddin Mahmud Khan Ujjal, Managing Director : Mobile: +8801716977292, +8801779799436 Email: smkhanuzzal@yahoo.com, nakshigreenagro@gmail.com
Product Composition	: Corn Starch, Liquid Glucose, Dextrose, Germ, CGM, Fiber, CSL
Market of the products	: Local and International market
Sources of Raw Materials	: Bangladesh
Sources of Energy	: REB, LPG GAS and Diesel Generator
Total Working Days	: 300
	roduction Assumptions
	65% in 1st year, 70% in 2nd year, 75% in 3rd year, 80% in 4th year
Year wise Capacity Utilization	and 85% in 5th year
Attainable Production Capacity/Day	
Corn Starch	: 60,000 kg
Liquid Glucose	: 50,000 kg
Dextrose	: 25,000 kg
Corn Germ	: 13,000 kg
Corn Gluten Meal (CGM)	: 11,000 kg
Corn Fiber	: 24,000 kg
Corn Steep Liquor (CSL)	: 7,000 kg
	Financial Assumptions
Debt-Equity Ratios	
For Long Term/ Project Loan	: 76.36 : 23.64
For Short Term/ Working Capital Loan	: 70.00 : 30.00
Interest rate on long-term debt	: 4.00%
Interest rate on short-term debt	: 4.00%
Debt tenure (Years)-Long Term Loan	: 10
Moratorium Period (months)	: 24
Loan Repayment Mode	: Equal Quarterly Instalment Basis (EQI)
Discount rate (weighted Avg. cost of capital)	: 4.00%
Provision for Income Tax	: 27.50%
	Revenue assumptions
Average Sales Price/kg	
Corn Starch	: USD 0.63
Liquid Glucose	: USD 0.78
Dextrose	: USD 0.98
Corn Germ	: USD 0.49
Corn Gluten Meal (CGM)	: USD 0.74
Corn Fiber	: USD 0.35
Corn Steep Liquor (CSL)	: USD 0.11
Average Sales Revenue (5 Years)	: USD 27.62 mln
Average Net Profit (5 Years)	: USD 6.62 mln



Ex	pense Assumptions
Basic Raw Materials Cost/kg	
Different Varieties of Corn	: USD 0.22
Sulfur Dioxide (SO2)	: USD 0.43
Caustic Soda	: USD 0.57
Administrative overheads (% of sales)	
Sales, Marketing and Promotional Expenses	: 1.50%
Printing and Stationery Expenses	: 0.10%
Electricity Head Office and General	: 0.10%
Travelling and Conveyance	: 0.25%
Postage, Telegram and Telephone	: 0.15%
Entertainment	: 0.20%
Legal and audit fees	: 0.25%
Insurance(Fire)	0.50%
Miscelleneous Expenses	: 0.10%
Raw material price growth rate	: 5%
Salary Increment	: 5% per year
Finished Goods Stock	: 15 days
W.I.P Stock	: 7 days
Depreciation and Amotization charges	
Project Shed and Building	: 5.00%
Others Civils Construction	: 5.00%
Machinery and Equipment (Imported)	: 10.00%
Import Duty, Customs, VAT and Insurance	: 10.00%
Machinery and Equipment (Local)	: 10.00%
Sub Station (1250 KVA) with all Accessories	: 20.00%
Fire Fighting, Fire Door, Fire Alarm and others	: 20.00%
Security Devices, CC Camera, CC TV, and Compliance Equipment	: 20.00%
Vehicle	: 20.00%
Office Decoration, Furniture-fixture & Office Equipment	: 20.00%
Machinery erection & installation	10.00%
Contingency for Civil Construction	5.00%
Contingency for Construction	: 10.00%
Other Factory Overhead	: 1.00% of sales Revenue
	Other Assumptions
Duty/Tax/Insurance & others	: 4.50% on imported Machinery and Equipement



### 8.2 Synopsis of Nakshi Green Agro Limited

Name of The Project:	1	Nakshi Green Agr										
Corporate Office		House # 42/A (4th Fl Bangladesh.	loor), Road#	9/A, Dhanm	iondi, Dhaka	-1209,						
Status of The Project:	:	: Private Limited Company										
Total Project Cost:	:	USD 29,699,527										
Life of The Project:	;	: 30 Years										
Market of the products	:	: Domestic										
No. of working days in a year	:	: 300 days										
Employment Generation	:	: 166 persons										
Sources of Utilities PDB/REB/DIESEL GENERATORS												
Financial Summary Fig in U												
Particulars		Year - 1 Year - 2 Year - 3 Year - 4										
Sales at attainable capacity		37,458,261	37,458,261	37,458,261	37,458,261	37,458,261						
Capacity Utilization		65%	70%	75%	80%	85%						
Sales at utilization capacity		22,590,765	26,044,622	27,954,423	29,828,197	31,701,130						
Gross Income/Profit		8,553,259	10,057,917	10,913,612	11,806,860	12,698,889						
Operating Income		7,841,419	9,237,269	10,032,794	10,867,006	11,700,036						
Net Income after Tax		5,074,100	6,079,641	6,685,450	7,322,415	7,960,394						
Gross Income to Sales (%)		37.86%	38.62%	39.04%	39.58%	40.06%						
Operating Income to Sales (%)		34.71%	35.47%	35.89%	36.43%	36.91%						
Net Income to Sales (%)		22.46%	23.34%	23.92%	24.55%	25.11%						
Return on Investment - ROI (%)		17.00%	17.21%	16.77%	16.33%	15.83%						
Return on Equity - ROE (%)		45.84%	37.13%	30.51%	26.19%	23.06%						
BEP on utilization capacity (%)		34.58%	30.32%	28.38%	26.60%	25.04%						
BEP on attainable capacity (%)		22.48%	21.22%	21.29%	21.28%	21.28%						
Break Even Sales (Tk.)		7,812,067	7,896,289	7,934,072	7,934,071	7,936,919						

Break Even Sales (Tk.)	7,812,067 7,896,289 7,934,072 7,934,071 7,936,919											
Pay Back Period (Years)		2.95										
Discounted Pay Back Period (Years)	3.18											
Debt Equity Ratio		76.36 : 23.64										
Project Loan Period	10 Years including 24 months moratorium period											
Interest Rate of Project Loan	4.00 % for Project Ioan & 4.00 % for Working Capital											
Mode of Loan Re-payment		Equal Quarter	ly Instalment	(EQI)								
Internal Rate of return (IRR) - %		3	4.70%									
Debt Service Coverage Ratio (Times)	3.42	3.73	3.91	4.10	4.29							
GDP Contribution based on 3rd year		11,	566,866									
		. ,										

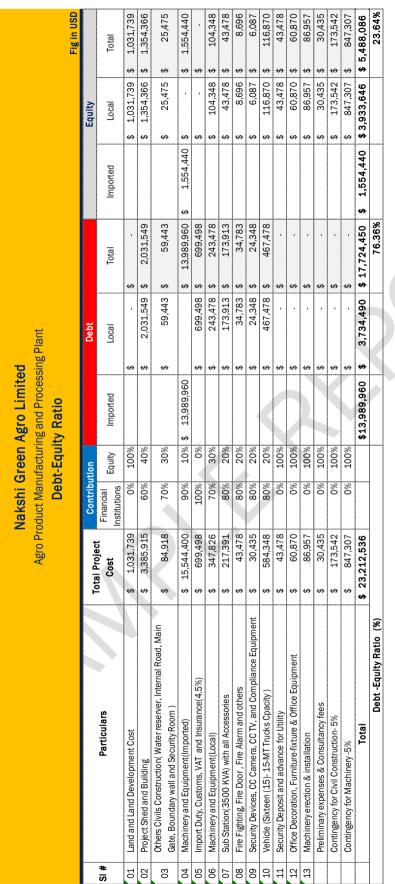
**NB:** Summary shows only 5 years information.



### 8.3 Estimated Project Cost

	Estimated Proje	ect Cost			
					Fig. in USE
SL #	Particulars			Cost	 
		Import		Local	 Total
01	Land and Land Development Cost	\$-	\$	1,031,739	\$ 1,031,739
02	Project Shed and Building		\$	3,385,915	\$ 3,385,915
03	Others Civils Construction( Water reserver, Internal Road, Main Gate,		\$	84.918	\$ 84.918
	Boundary wall and Security Room )		Ψ	01,010	- /
04	Machinery and Equipment(Imported)	\$ 15,544,400			\$ 15,544,400
05	Import Duty, Customs, VAT and Insurance(4.5%)		\$	699,498	\$ 699,498
06	Machinery and Equipment(Local)		\$	347,826	\$ 347,826
07	Sub Station(3500 KVA) with all Accessories		\$	217,391	\$ 217,391
08	Fire Fighting, Fire Door , Fire Alarm and others		\$	43,478	\$ 43,478
09	Security Devices, CC Camera, CC TV, and Compliance Equipment		\$	30,435	\$ 30,435
10	Vehicle (Sixteen (15)- 15-MT Trucks Cpacity )		\$	584,348	\$ 584,348
11	Security Deposit and advance for Utility		\$	43,478	\$ 43,478
12	Office Decoration, Furniture-fixture & Office Equipment		\$	60,870	\$ 60,870
13	Machinery erection & installation		\$	86,957	\$ 86,957
14	Preliminary expenses & Consultancy fees	\$ -	\$	30,435	\$ 30,435
15	Contingency for Civil Construction- 5%		\$	173,542	\$ 173,542
16	Contingency for Machinery -5%	\$ 777,220	\$	70,087	\$ 847,307
	TOTAL FIXED COST EXCEPT IDCP	\$16,321,620	\$	6,890,916	\$ 23,212,536
17	Working Capital Requirement				\$ 5,069,035
18	IDCP (24 months Grace Period with 4% rate of interest)				\$ 1,417,956
	TOTAL PROJECT COST				\$ 29,699,527

		1181111000
Sponsor's Equity	23.64%	\$ 5,488,086
Long Term Loan	76.36%	\$ 17,724,450
Interest During Construction Period(IDCP)		\$ 1,417,956
Working Capital , Equity	30.00%	\$ 1,520,710
Working Capital , Short Term Loan	70.00%	\$ 3,548,324
TOTAL		\$ 29,699,527





Agro Product Manufacturing and Processing Project

8.4

Debt-Equity Ratio Analysis- Long Term Finance

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### 8.5 Projected Balance Sheet

		kshi Green					
	Agro Produ	ct Manufactur	ing and Proce	essi	ng Plant		
	P	rojected Ba	lance Shee	et			
							Fig. in USI
Particulars	0 Year	1st Year	2nd Year		3rd Year	4th Year	5th Year
Fixed Assets							
Fixed Assets (net)	\$ 23,182,101	\$ 21,059,979	\$ 18,937,858	\$	16,815,736	\$ 14,693,614	\$ 12,571,492
Preliminary & Pre-Operating Expenses	\$ 30,435	\$ 24,348	\$ 18,261	\$	12,174	\$ 6,087	\$-
Interest During Construction Period (IDCP)	\$ 1,417,956	\$ 1,134,365	\$ 850,774	\$	567,182	\$ 283,591	\$-
Investment	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -
Sub Total	\$ 24,630,492	\$ 22,218,692	\$ 19,806,892	\$	17,395,092	\$ 14,983,292	\$ 12,571,492
Current Assets							
Cash & Bank Balance	\$-	\$ 6,471,080	\$ 12,156,664	\$	18,262,338	\$ 24,810,405	\$ 31,798,949
Closing Stock/Inventory							
Raw Materials Cost		\$ 2,936,280	\$ 3,162,147	\$	3,388,015	\$ 3,613,883	\$ 3,839,750
Packaging Cost		\$ -	\$ -	\$	-	\$ -	\$-
Other Materials Cost		\$-	\$ -	\$	-	\$ -	\$-
Finished Goods		\$ 738,816	\$ 802,520	\$	854,647	\$ 903,510	\$ 952,565
Work in Process		\$ 205,540	\$ 197,634	\$	211,751	\$ 225,868	\$ 239,984
Advance Salary and Wages		\$ 188,133	\$ 196,816	\$	206,222	\$ 216,063	\$ 223,437
Accounts Receivables		\$ 1,223,666	\$ 1,519,270	\$	1,747,151	\$ 1,988,546	\$ 2,245,497
Advance Factory and Admin Overhead		\$ 826,819	\$ 2,421,661	\$	2,637,781	\$ 2,799,160	\$ 2,960,534
Expenses						· · · ·	
Sub Total	\$ -	\$ 12,590,333	\$ 20,456,713	\$	27,307,905	\$ 34,557,435	\$ 42,260,716
Total Assets	\$ 24,630,492	\$ 34,809,025	\$ 40,263,605	\$	44,702,997	\$ 49,540,727	\$ 54,832,208
Liability & Owner's Equity							
Current Liabilities							
Short Term Loan (Working Capital Loan)		\$ 3,548,324	\$ 4,576,493	\$	5,030,819	\$ 5,471,411	\$ 5,921,298
Accounts Payable		\$ 677,603	\$ 677,603	\$	677,603	\$ 677,603	\$ 677,603
Accrued Expenses		\$ 369,116	\$ 1,081,099		1,177,581		\$ 1,321,667
Other Accrued Liabilities		\$ 3,500	\$ 3,500	\$	3,500	\$ 3,500	\$ 3,500
Total Current Liabilities	\$ -	\$ 4,598,543	\$ 6,338,695	\$	6,889,502	\$ 7,402,139	\$ 7,924,068
Long Term Liabilities							
Long Term Loan (Including IDCP)	\$ 19,142,405	\$ 19,142,405	\$ 17,552,477	\$	15,897,991	\$ 14,176,326	\$ 12,384,755
Total Liabilities	\$ 19,142,405	\$ 23,740,949	\$ 23,891,172	\$	22,787,493	\$ 21,578,465	\$ 20,308,823
Owners Equity							
Share Capital	\$ 5,488,086	\$ 5,488,086	\$ 5,488,086	\$	5,488,086	\$ 5,488,086	\$ 5,488,086
Share Capital-Working Capital		\$ 1,520,710	\$ 1,961,354	· · · ·	2,156,065	\$ 2,344,891	
General Reserve		\$ 507,410	\$ 1,115,374		1,783,919	\$ 2,516,161	
Retained Earnings	\$	\$ 3,551,870	\$ 7,807,619	\$	12,487,433	\$ 17,613,124	\$ 23,185,400
Total Owner's Equity	\$ 5,488,086	\$ 11,068,077	\$ 16,372,433	\$	21,915,504	\$ 27,962,261	\$ 34,523,385
Total Liability & Owner's Equity	\$ 24.630.492	\$ 34.809.025	\$ 40.263.605	\$	44.702.997	\$ 49,540,727	\$ 54,832,208



### 8.6 Projected Income Statement

	N	lakehi Gre		n Agro Lim	.i+	ed			
1 m				<b>—</b>					
Agro				uring and Pro					
	Ρ	rojected Ir	nc	ome State	me	ent			
									Fig. in USD
Particulars		1st Year		2nd Year		3rd Year		4th Year	5th Year
Sales	\$	22,590,765	\$	26,044,622	\$	27,954,423	\$	29,828,197	\$ 31,701,130
Cost of Goods Sold	\$	14,037,505	\$	15,986,705	\$	17,040,811	\$	18,021,337	\$ 19,002,242
Gross Income	\$	8,553,259	\$	10,057,917	\$	10,913,612	\$	11,806,860	\$ 12,698,889
Administrative & Marketing Expenses	\$	711,840	\$	820,648	\$	880,818	\$	939,854	\$ 998,852
Operating Income	\$	7,841,419	\$	9,237,269	\$	10,032,794	\$	10,867,006	\$ 11,700,036
Other Income / Expenses									 
Return on Investment	\$	-	\$	-	\$	-	\$	-	\$ -
Net Income Before Interest & Taxes	\$	7,841,419	\$	9,237,269	\$	10,032,794	\$	10,867,006	\$ 11,700,036
Financial Expenses	\$	842,661	\$	851,557	\$	811,484	\$	767,123	\$ 720,182
Net Income Before Taxes	\$	6,998,758	\$	8,385,712	\$	9,221,310	·····	10,099,883	\$ 10,979,854
Provision for VAT and Tax (27.50%)	\$	1,924,658	\$	2,306,071	\$	2,535,860	\$	2,777,468	\$ 3,019,460
Net Income after Tax	\$	5,074,100	\$	6,079,641	\$	6,685,450	\$	7,322,415	\$ 7,960,394
Appropriation									 
Retained Earnings at beginning of the period	\$	-	\$	3,551,870	\$	7,807,619	\$	12,487,433	\$ 17,613,124
Net Income During The Period	\$	5,074,100	\$	6,079,641	\$	6,685,450	\$	7,322,415	\$ 7,960,394
Cash Dividend declared(20% each year)	\$	1,014,820	\$	1,215,928	\$	1,337,090	\$	1,464,483	\$ 1,592,079
Transfer to General Reserve(10% each year)	\$	507,410	\$	607,964	\$	668,545	\$	732,241	\$ 796,039
Retained Earnings at End of the period	\$	3,551,870	\$	7,807,619	\$	12,487,433	\$	17,613,124	\$ 23,185,400
Ratios :									
Gross Income to sales		37.86%		38.62%		39.04%		39.58%	 40.06%
Operating Income to sales		34.71%		35.47%		35.89%		36.43%	 36.91%
Net Income after Tax to sales		22.46%		23.34%		23.92%		24.55%	 25.11%
Debt Service Coverage ratio		3.42		3.73		3.91		4.10	 4.29



#### 8.7 Sensitivity Analysis

#### (a) Sensitivity Analysis based on 5.00% decrease of sales price

		Nakshi G	ire	en Agro Li	mi	ited			
Agro	o Pr	oduct Mani	Jfac	turing and Pr	00	essing Plant			
Ŭ				come Stat					
(Constit		-					,		
(Sensi	Ινιιγ	Analysis Da	asec	a on 5% decrea	ase	e of sales price;	)		Fig. in USD
Particulars		1st Year		2nd Year		3rd Year		4th Year	5th Year
Sales	\$	21,461,227	\$		\$	26,556,702	\$	28,336,787	\$ 30,116,074
Cost of Goods Sold	\$	14,037,505	\$	15,986,705	\$	17.040.811	\$	18,021,337	\$ 19,002,242
Gross Income	\$	7,423,721	\$	8,755,686	\$	9,515,891	\$	10,315,450	\$ 11,113,832
Administrative & Marketing Expenses	\$	711,840	\$	820,648	\$	880,818	\$	939,854	\$ 998,852
Operating Income	\$	6,711,881	\$	7,935,038	\$	8,635,073	\$	9,375,596	\$ 10,114,980
Other Income / Expenses									
Return on Investment	\$	-	\$	-	\$	-	\$	-	\$ -
Net Income Before Interest & Taxes	\$	6,711,881	\$	7,935,038	\$	8,635,073	\$	9,375,596	\$ 10,114,980
Financial Expenses	\$	842,661	\$	851,557	\$	811,484	\$	767,123	\$ 720,182
Net Income Before Taxes	\$	5,869,220	\$	7,083,481	\$	7,823,588	\$	8,608,473	\$ 9,394,798
Provision for VAT and Tax (27.50%)	\$	1,614,035	\$	1,947,957	\$	2,151,487	\$	2,367,330	\$ 2,583,569
Net Income after Tax	\$	4,255,184	\$	5,135,524	\$	5,672,102	\$	6,241,143	\$ 6,811,228
Appropriation									 
Retained Earnings at beginning of the period	\$	-	\$	2,978,629	\$	6,573,496	\$	10,543,967	\$ 14,912,767
Net Income During The Period	\$	4,255,184	\$	5,135,524	\$	5,672,102	\$	6,241,143	\$ 6,811,228
Cash Dividend declared(20% each year)	\$	851,037	\$	1,027,105	\$	1,134,420	\$	1,248,229	\$ 1,362,246
Transfer to General Reserve(10% each year)	\$	425,518	\$	513,552	\$	567,210	\$	624,114	\$ 681,123
Retained Earnings at End of the period	\$	2,978,629	\$	6,573,496	\$	10,543,967	\$	14,912,767	\$ 19,680,627
Ratios :									 
Gross Income to sales		34.59%		35.39%		35.83%		36.40%	 36.90%
Operating Income to sales		31.27%		32.07%		32.52%		33.09%	 33.59%
Net Income after Tax to sales		19.83%		20.76%		21.36%		22.02%	 22.62%
Debt Service Coverage ratio		3.09		3.35		3.51		3.68	 3.85



(b) Sensitivity Analysis based on 5.00% increase of Basic Raw Materials Cost

		Nakehi Gr	001	n Agro Lim	ito	d			
A	gro Pr	oduct Manufa	actu	iring and Proc	ess	sing Plant			
	1	Projected I	nco	ome Stater	ne	nt			
Sen	sitivity A	nalysis based on	5% i	ncrease of Basic	Raw	Materials Cost			
									Fig. in USD
Particulars		1st Year		2nd Year		3rd Year	4th Year		5th Year
Sales	\$	22,590,765	\$	26,044,622	\$	27,954,423	\$ 29,828,197	\$	31,701,130
Cost of Goods Sold	\$	14,446,162	\$	16,410,879	\$	17,490,211	\$ 18,474,155	\$	19,454,489
Gross Income	\$	-,,	\$	9,633,743	\$		\$ 11,354,042	\$	12,246,642
Administrative & Marketing Expenses	\$	711,840	\$	820,648	\$	880,818	\$ 939,854	\$	998,852
Operating Income	\$	7,432,762	\$	8,813,095	\$	9,583,395	\$ 10,414,188	\$	11,247,789
Other Income / Expenses									
Return on Investment	\$	-	\$	-	\$	-	\$ -	\$	-
Net Income Before Interest & Taxes	\$	7,432,762	\$	8,813,095	\$	9,583,395	\$ 10,414,188	\$	11,247,789
Financial Expenses	\$	842,661	\$	851,557	\$	811,484	\$ 767,123	\$	720,182
Net Income Before Taxes	\$	6,590,101	\$	7,961,538	\$	8,771,910	\$ 9,647,065	\$	10,527,607
Provision for VAT and Tax (27.50%)	\$	1,812,278	\$	2,189,423	\$	2,412,275	\$ 2,652,943	\$	2,895,092
Net Income after Tax	\$	4,777,823	\$	5,772,115	\$	6,359,635	\$ 6,994,122	\$	7,632,515
Appropriation									
Retained Earnings at beginning of the period	\$	-	\$	3.344.476	\$	7.384.957	\$ 11.836.701	\$	16.732.587
Net Income During The Period	\$	4,777,823	\$	5,772,115	\$	, ,	\$ 6,994,122	·····	7,632,515
Cash Dividend declared(20% each year)	\$	955.565	\$	1.154.423	\$	1.271.927	\$ 1.398.824	\$	1,526,503
Transfer to General Reserve(10% each year)	\$	477.782	\$	577.211	\$	635.964	\$ 699,412	\$	763.252
Retained Earnings at End of the period	\$	3,344,476	\$	7,384,957	\$	11,836,701	\$ 16,732,587	\$	22,075,347
Ratios :									
Gross Income to sales		36.05%		36.99%	_	37.43%	 38.06%		38.63%
Operating Income to sales		32.90%		33.84%		34.28%	 34.91%		35.48%
Net Income after Tax to sales		21.15%		22.16%		22.75%	 23.45%		24.08%
Debt Service Coverage ratio		3.30		3.61		3.78	 3.98		4.17



(c) Sensitivity Analysis based on 5.00% decrease of sales price 5.00% increase of Raw Materials Cost

	dro D			en Agro Lin					
A	gro P			uring and Pro		U			
		Projected	Inc	come State	me	ent			
Sensitivity Analysis	s based	d on 5% decrease	e of s	ales price 5% inc	reas	e of Basic Raw M	lateri	ials Cost	
									Fig. in USD
Particulars		1st Year		2nd Year		3rd Year		4th Year	5th Year
Sales	\$	21,461,227	\$	24,742,391	\$	26,556,702	\$	28,336,787	\$ 30,116,074
Cost of Goods Sold	\$	14,446,162	\$	16,410,879	\$	17,490,211	\$	18,474,155	\$ 19,454,489
Gross Income	\$	7,015,065	\$	8,331,511	\$	9,066,492	\$	9,862,632	\$ 10,661,585
Administrative & Marketing Expenses	\$	711,840	\$	820,648	\$	880,818	\$	939,854	\$ 998,852
Operating Income	\$	6,303,224	\$	7,510,864	\$	8,185,674	\$	8,922,778	\$ 9,662,733
Other Income / Expenses									
Return on Investment	\$	-	\$	-	\$	-	\$	-	\$ -
Net Income Before Interest & Taxes	\$	6,303,224	\$	7,510,864	\$	8,185,674	\$	8,922,778	\$ 9,662,733
Financial Expenses	\$	842,661	\$	851,557	\$	811,484	\$	767,123	\$ 720,182
Net Income Before Taxes	\$	5,460,563	\$	6,659,307	\$	7,374,189	\$	8,155,655	\$ 8,942,551
Provision for VAT and Tax (27.50%)	\$	1,501,655	\$	1,831,309	\$	2,027,902	\$	2,242,805	\$ 2,459,201
Net Income after Tax	\$	3,958,908	\$	4,827,997	\$	5,346,287	\$	5,912,850	\$ 6,483,349
Appropriation									
Retained Earnings at beginning of the period	\$	-	\$	2,771,236	\$	6,150,834	\$	9,893,235	\$ 14,032,230
Net Income During The Period	\$	3,958,908	\$	4,827,997	\$	5,346,287	\$	5,912,850	\$ 6,483,349
Cash Dividend declared(20% each year)	\$	791,782	\$	965,599	\$	1,069,257	\$	1,182,570	\$ 1,296,670
Transfer to General Reserve(10% each year)	\$	395,891	\$	482,800	\$	534,629	\$	591,285	\$ 648,335
Retained Earnings at End of the period	\$	2,771,236	\$	6,150,834	\$	9,893,235	\$	14,032,230	\$ 18,570,574
Ratios :									
Gross Income to sales		32.69%		33.67%		34.14%		34.81%	35.40%
Operating Income to sales		29.37%		30.36%		30.82%	_	31.49%	32.08%
Net Income after Tax to sales		18.45%		19.51%		20.13%		20.87%	21.53%
Debt Service Coverage ratio		2.97		3.23		3.38		3.55	3.72

Agro Product Manufacturing and Processing Project



### 8.8 Projected Cost of Goods Sold

Agro F	rod	akshi Gre luct Manufa ojected Co	ctı	iring and Pro	oce	ssing Plant		Fig. in USD
Particulars		1st Year		2nd Year		3rd Year	 4th Year	 5th Year
Capacity Utilization		65%		70%		75%	 80%	 85%
Basic Raw Materials, Chemicals and Auxiliaries Cost	\$	8,808,839	\$	9,486,442	\$	10,164,045	\$ 10,841,648	\$ 11,519,251
Salaries & Wages	\$	338,735	\$	381,628	\$	428,429	\$ 478,799	\$ 533,001
GAS, Electricity, Water, Fuel & Lubricant	\$	3,020,555	\$	3,252,905	\$	3,485,255	\$ 3,717,606	\$ 3,949,956
Repair, Maintenance & Stores	\$	181,712	\$	272,568	\$	363,424	\$ 363,424	\$ 363,424
Load , Unloading, Handling and Carrying Charge	\$	132,133	\$	142,297	\$	152,461	\$ 162,625	\$ 172,789
Other Production Overhead	\$	88,088	\$	94,864	\$	101,640	\$ 108,416	\$ 115,193
Depreciation & Amortization	\$	2,411,800	\$	2,411,800	\$	2,411,800	\$ 2,411,800	\$ 2,411,800
Total Production Cost	\$	14,981,861	\$	16,042,504	\$	17,107,055	\$ 18,084,317	\$ 19,065,413
Add: Opening Stock of W.I.P (7 days)	\$	-	\$	205,540	\$	197,634	\$ 211,751	\$ 225,868
Total Manufacturing Cost	\$	14,981,861	\$	16,248,043	\$	17,304,689	\$ 18,296,068	\$ 19,291,281
Less: Closing Stock of W.I.P (7 days)	\$	205,540	\$	197,634	\$	211,751	\$ 225,868	\$ 239,984
Total Cost of Goods Manufactured	\$	14,776,322	\$	16,050,409	\$	17,092,938	\$ 18,070,201	\$ 19,051,297
Add: Opening Stock of Finished Goods (15 days)	\$		\$	738,816	\$	802,520	\$ 854,647	\$ 903,510
Goods available for sale	\$	14,776,322	\$	16,789,225	\$	17,895,458	\$ 18,924,847	\$ 19,954,807
Less: Closing Stock of Finished Goods (15 days)	\$	738,816	\$	802,520	\$	854,647	\$ 903,510	\$ 952,565
Cost of Goods Sold	\$	14,037,505	\$	15,986,705	\$	17,040,811	\$ 18,021,337	\$ 19,002,242



### 8.9 Projected Cash Flow Statement

ak	shi Green	Α	gro Lin	nit	ted						
luct	Manufactur	in	and Pro	ce	ssing Plar	nt					
			<b>-</b>		Ŭ						
Jec	teu cash		ow Star	.e	ment						
										ł	ig. in USD
	0 Year		1st Year		2nd Year		3rd Year		4th Year		5th Year
											******
		\$	5,074,100	\$	6,079,641	\$	6,685,450	\$	7,322,415	\$	7,960,394
		\$	2,411,800	\$	2,411,800	\$	2,411,800	\$	2,411,800	\$	2,411,800
		\$	(5,069,035)	\$	(1,468,812)	\$	(649,037)	\$	(629,418)	\$	(642,695)
\$	-	\$	2,416,865	\$	7,022,630	\$	8,448,213	\$	9,104,797	\$	9,729,499
\$	(24,630,492)	\$	-	\$	-	\$	-	\$	-	\$	-
\$	-										*******
\$	(24,630,492)	\$	-	\$	-	\$	-	\$	-	\$	-
\$	5,488,086										
		\$	1,520,710	\$	440,644	\$	194,711	\$	188,825	\$	192,809
\$	19,142,405										
		\$	3,548,324	\$	1,028,168	\$	454,326	\$	440,593	\$	449,887
				\$	(1,589,929)	\$	(1,654,486)	\$	(1,721,665)	\$	(1,791,571)
		\$	(1,014,820)	\$	(1,215,928)	\$	(1,337,090)	\$	(1,464,483)	\$	(1,592,079)
\$	24,630,492	\$	4,054,215	\$	(1,337,045)	\$	(2,342,539)	\$	(2,556,730)	\$	(2,740,955)
\$	-	\$	6,471,080	\$	5,685,585	\$	6,105,674	\$	6,548,067	\$	6,988,544
\$	-	\$	-	\$	6,471,080	\$	12,156,664	\$	18,262,338	\$	24,810,405
\$	-	\$	6,471,080	\$	12,156,664	\$	18,262,338	\$2	4.810,405	\$	31,798,949
	s \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Uuct Manufactur jected Cash 0 Year \$ - \$ (24,630,492) \$ - \$ (24,630,492) \$ 5,488,086 \$ 19,142,405 \$ 19,142,405 \$ 24,630,492 \$ - \$ 24,630,492 \$ - \$ -	Uuct Manufacturing jected Cash Fl 0 Year \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	O Year         1st Year           0 Year         1st Year           \$ 5,074,100         \$           \$ 2,411,800         \$           \$ 2,411,800         \$           \$ 2,411,800         \$           \$ 2,411,800         \$           \$ 2,411,800         \$           \$ (5,069,035)         \$           \$ 2,416,865         \$           \$ (24,630,492)         \$           \$ (24,630,492)         \$           \$ 1,520,710         \$           \$ 19,142,405         \$           \$ (1,014,820)         \$           \$ (1,014,820)         \$           \$ 24,630,492         \$           \$ (1,014,820)         \$           \$ (1,014,820)         \$           \$ 24,630,492         \$           \$ (1,014,820)         \$           \$ 24,630,492         \$           \$ (1,014,820)         \$           \$ 24,630,492         \$           \$ 3,548,324         \$           \$ 3,548,324         \$	0 Year       1st Year         0 Year       1st Year         \$ 5,074,100       \$         \$ 2,411,800       \$         \$ 2,411,800       \$         \$ 2,411,800       \$         \$ 2,411,800       \$         \$ 2,411,800       \$         \$ 2,411,800       \$         \$ 2,411,800       \$         \$ 2,411,800       \$         \$ 2,416,806       \$         \$ 2,416,806       \$         \$ (24,630,492)       \$       -         \$ (24,630,492)       \$       -         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,520,710       \$         \$ 1,014,820       \$         \$ 1,014,820	O Year         1st Year         2nd Year           \$ 5,074,100         \$ 6,079,641           \$ 5,074,100         \$ 6,079,641           \$ 5,074,100         \$ 6,079,641           \$ 2,411,800         \$ 2,411,800           \$ 2,411,800         \$ 2,411,800           \$ 2,411,805         \$ 7,022,630           \$ (24,630,492)         \$ -           \$ (24,630,492)         \$ -           \$ (24,630,492)         \$ -           \$ (24,630,492)         \$ -           \$ 5,488,086         \$ -           \$ 5,488,086         \$ -           \$ 1,520,710         \$ 440,644           \$ 19,142,405         \$ -           \$ 3,548,324         \$ 1,028,168           \$ 19,142,405         \$ (1,589,929)           \$ (1,215,928)         \$ (1,215,928)           \$ 24,630,492         \$ 4,054,215         \$ (1,215,928)           \$ 24,630,492         \$ 4,054,215         \$ (1,215,928)           \$ 24,630,492         \$ 4,054,215         \$ (1,215,928)           \$ 24,630,492         \$ 4,054,215         \$ (1,337,045)           \$ 24,630,492         \$ 4,054,215         \$ (4,71,080           \$ 0,471,080         \$ 5,685,585         \$ 0,471,080	O Year       1st Year       2nd Year         \$ 0 Year       \$ 5,074,100       \$ 6,079,641       \$         \$ \$ 5,074,100       \$ 6,079,641       \$       \$         \$ \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$       2,411,800       \$         \$ \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$       \$         \$ \$ 2,416,865       \$ 7,022,630       \$       \$       \$       \$         \$ (24,630,492)       \$ -       \$ 7,022,630       \$       \$       \$         \$ (24,630,492)       \$ -       \$ 7,022,630       \$       \$       \$       \$         \$ (24,630,492)       \$ -       \$ 7,022,630       \$       \$       \$       \$       \$         \$ (24,630,492)       \$ -       \$ 7,022,630       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$       \$	Vear       1st Year       2nd Year       3rd Year         \$ 5,074,100       \$ 6,079,641       \$ 6,685,450         \$ 5,074,100       \$ 2,411,800       \$ 2,411,800         \$ 2,411,800       \$ 2,411,800       \$ 2,411,800         \$ 2,411,800       \$ 2,411,800       \$ 2,411,800         \$ 2,411,800       \$ 2,411,800       \$ 2,411,800         \$ 2,416,865       \$ 7,022,630       \$ 8,448,213         \$ (24,630,492)       \$ -       \$ -         \$ (24,630,492)       \$ -       \$ -         \$ (24,630,492)       \$ -       \$ -         \$ (24,630,492)       \$ -       \$ -         \$ (24,630,492)       \$ -       \$ -         \$ (24,630,492)       \$ -       \$ -         \$ 1,520,710       \$ 440,644       \$ 194,711         \$ 1,520,710       \$ 440,644       \$ 194,711         \$ 19,142,405       \$ (1,588,929)       \$ (1,654,486)         \$ 1,520,710       \$ 440,644       \$ 194,711         \$ 19,142,405       \$ (1,215,928)       \$ (1,654,486)         \$ (1,014,820)       \$ (1,215,928)       \$ (1,634,486)         \$ (1,014,820)       \$ (1,215,928)       \$ (1,337,090)         \$ 24,630,492       \$ 4,054,215       \$ (1,337,045) <td>Nuct Manufacturing and Processing Plant         jected Cash Flow Statement         0 Year       1st Year       2nd Year       3rd Year       1         \$ 5,074,100       \$ 6,079,641       \$ 6,685,450       \$         \$ 5,074,100       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800<!--</td--><td>Juct Manufacturing and Processing Plant         jected Cash Flow Statement         0 Year       1st Year       2nd Year       3rd Year       4th Year         0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0,079,641       \$ 6,685,450       \$ 7,322,415       7       7       7         \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800         \$ 2,416,865       \$ 7,022,630       \$ 8,448,213       \$ 9,104,797       \$ (629,418)         \$ (24,630,492)       \$ -       \$ 7,022,630       \$ 8,448,213       \$ 9,104,797         \$ (24,630,492)       \$ -       \$ -       \$ -       \$ -       \$ -&lt;</td><td>Nuct Manufacturing and Processing Plant         jected Cash Flow Statement         Statement         Statement         Statement         Jected Cash Flow Statement         Jected Cash Flow Statement         Statement         Statement         Jected Cash Flow Statement</td></td>	Nuct Manufacturing and Processing Plant         jected Cash Flow Statement         0 Year       1st Year       2nd Year       3rd Year       1         \$ 5,074,100       \$ 6,079,641       \$ 6,685,450       \$         \$ 5,074,100       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800 </td <td>Juct Manufacturing and Processing Plant         jected Cash Flow Statement         0 Year       1st Year       2nd Year       3rd Year       4th Year         0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0,079,641       \$ 6,685,450       \$ 7,322,415       7       7       7         \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800         \$ 2,416,865       \$ 7,022,630       \$ 8,448,213       \$ 9,104,797       \$ (629,418)         \$ (24,630,492)       \$ -       \$ 7,022,630       \$ 8,448,213       \$ 9,104,797         \$ (24,630,492)       \$ -       \$ -       \$ -       \$ -       \$ -&lt;</td> <td>Nuct Manufacturing and Processing Plant         jected Cash Flow Statement         Statement         Statement         Statement         Jected Cash Flow Statement         Jected Cash Flow Statement         Statement         Statement         Jected Cash Flow Statement</td>	Juct Manufacturing and Processing Plant         jected Cash Flow Statement         0 Year       1st Year       2nd Year       3rd Year       4th Year         0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0 Year       1st Year       2nd Year       3rd Year       4th Year         \$ 0,079,641       \$ 6,685,450       \$ 7,322,415       7       7       7         \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800       \$ 2,411,800         \$ 2,416,865       \$ 7,022,630       \$ 8,448,213       \$ 9,104,797       \$ (629,418)         \$ (24,630,492)       \$ -       \$ 7,022,630       \$ 8,448,213       \$ 9,104,797         \$ (24,630,492)       \$ -       \$ -       \$ -       \$ -       \$ -<	Nuct Manufacturing and Processing Plant         jected Cash Flow Statement         Statement         Statement         Statement         Jected Cash Flow Statement         Jected Cash Flow Statement         Statement         Statement         Jected Cash Flow Statement



### 8.10 Assessment of Working Capital

	Agro Produc	t Ma	anufacturing	gar	nd Processin	g P	lant				
	Asses	sm	nent of W	ork	ing Capita	al					
					· ·						Fig. in USE
Particulars	Tied up Period	En	d of 1st Year	En	d of 2nd Year	Ε	nd of 3rd Year	E	nd of 4th Year	End	of 5th Year
Capacity Utilization			65%		70%		75%		80%		859
Current Operating Assets											
<b>Basic Chemicals and Auxiliaries</b>											
Basic Raw Materials, Chemicals and Auxiliaries Cost	4 months	\$	2,936,280	\$	3,162,147	\$	3,388,015	\$	3,613,883	\$	3,839,750
Total Basic Chemicals and		•									
Auxiliaries and Packing Cost		\$	2,936,280	\$	3,162,147	\$	3,388,015	\$	3,613,883	\$	3,839,750
Closing Stock/Inventory						~~~~~					
Finished Goods	15 days	\$	738,816	\$	802,520	\$	854,647	\$	903,510	\$	952,56
Work in Process	7 days	\$	205,540	\$	197,634	\$	211,751	\$	225,868	\$	239,98
Advance Salary and Wages	3 months	\$	188,133	\$	196,816	\$	206,222	\$	216,063	\$	223,43
Accounts Receivables	1 month	\$	1,223,666	\$	1,519,270	\$	1,747,151	\$	1,988,546	\$	2,245,49
Factory and Admin Overhead	-						· · · · · · · · · · · · · · · · · · ·				
Expenses	3 months	\$	826,819	\$	2,421,661	\$	2,637,781	\$	2,799,160	\$	2,960,534
Total Current Operating Assets	94 	\$	6,119,254	\$	8,300,049	\$	9,045,568	\$	9,747,030	\$	10,461,767
<b>Current Operating Liabilities</b>											
Accounts Payable	15 days on Raw Materials Cost	\$	677,603	\$	677,603	\$	677,603	\$	677,603	\$	677,603
	30 days on production										
Accrued Expenses	overhead and Admin	\$	369,116	\$	1,081,099	\$	1,177,581	\$	1,249,625	\$	1,321,66
	Expenses										
Other Accrued Liabilities	LS	\$	3,500	\$	3,500	\$	3,500	\$	3,500	\$	3,50
Total Current Operating Liabilitie	s	\$	1,050,219	\$	1,762,202	\$	1,858,684	\$	1,930,728	\$	2,002,770
Net Working Capital		\$	5,069,035	\$	6,537,847	\$	7,186,884	\$	7,816,302	\$	8,458,997
Norking Capital Requirment as	N/		1st Year		2nd Year		3rd Year		4th Year		5th Yea
Der year wise	%		0.540.001		4 5 70 400	*	5 000 010	<b>^</b>	E 474 ***	•	E 004 000
Short Term Loan from Banks	70.00%	\$	3,548,324		4,576,493		5,030,819		5,471,411		5,921,298
Equity Contribution	30.00%	\$	1,520,710		1,961,354		2,156,065		2,344,891		2,537,699
Tota	100.00%	\$	5,069,035	\$	6,537,847	\$	7,186,884	\$	7,816,302	\$	8,458,997

For this project, NGA has assessed the working capital requirement amounted to USD 5.07 mln as funded and non-funded facilities by utilizing 65% average capacity in the first year in which NGA requires 3.55 mln as funded and non-funded facilities from banks/financial institutions.

The working capital facilities will include LC Facilities, Bank Guarantee, LTR Facilities and CC Hypo/OD. The working capital matrix has been illustrated in the beside table.

#### Working Capital Requirement

(Including Funded and Non-Funded)

#### **Grand Total**

: USD 3.55 mln

Non-Funded LC Facilities Bank Guarantee

: USD 2.20 mln : USD 0.10 mln

#### Funded LTR Facilities

CC Hypo/OD

: USD 0.50 mln : USD 0.75 mln



### 8.10.1 Breakdown of Working Capital

#### Breakdown of Working Capital

Working Capital Facilities are expecting from banks/financial institutions as follows(Funded and Non Funded)

Institutions as follows(Funded and Non Funded)					
Working Capital Facilities	1st Year	2nd Year	3rd Year	4th Year	5th Year
Non-Funded Facilitieis					
LC Facilities	2,200,000	2,310,000	2,425,500	2,546,775	2,674,114
Bank Guarantee	100,000	100,000	100,000	100,000	100,000
Total No Funded Facilities	2,300,000	2,410,000	2,525,500	2,646,775	2,774,114
Funded Facilitieis					
LATR Facility	500,000	525,000	551,250	578,813	607,753
FDBP/LDBP	-	-	-	-	-
PC limit	-	-	-	-	-
CC Hypo/OD/Time Loan/RSTL	748,324	1,641,493	1,954,069	2,245,824	2,539,431
Total Funded Facilities	1,248,324	2,166,493	2,505,319	2,824,636	3,147,184
Total Facilities	3,548,324	4,576,493	5,030,819	5,471,411	5,921,298

### 8.10.2 Financial Expenses for Working Capital

Financial Expenses		1st Year	2nd Year	3rd Year	4th Year	5th Year
Long Term/ Project Finance						
For Long Term Loan(Existing)						
For Long Term Loan(New)		742,045	677,488	610,309	540,402	467,657
Short Term/ Working Capital						
For Short Term Loan(Existing)						
For Short Term Loan(New)		100,616	174,069	201,175	226,721	252,525
	Yearly Financial Expenses	842,661	851,557	811,484	767,123	720,182
	Monthly Financial Expenses	70,222	70,963	67,624	63,927	60,015



### 8.11 Human Resources, Administrative, Selling and Marketing Expenses

8.11.1 Manpower Requirement and their Base Salary

	Naksl	ni Gr	een Agr	o Li	imited			
	Agro Product N	/anufa	acturing ar	nd Pi	rocessing P	lant		
	Ŭ		ment and Bas		U			
Facto	ry and Production							
1 4010	Designation	Sala	ary/month	Sa	lary/Anum	No.	Tota	I Salary/Anum
01	General Manager-Factory In Charge	\$	1,739	\$	20,870	1	\$	20,870
02	Factory Supervisor/Shift In charge (Tech.)	\$	1,043	\$	12,522	3	\$	37,565
03	Chief Chemist	\$	1,304	\$	15,652	1	\$	15,652
04	Deputy / Asst. Chemist	\$	522	\$	6.261	2	\$	12,522
05	Manager Production	\$	870	\$	10,435	2	\$	20,870
06	Asst. Manager Production	\$	348	\$	4,174	2	\$	8,348
07	Quality Assurance-In Charge	\$	870	\$	10,435	2	\$	20,870
08	Sr./Jr. Executive QC	\$	348	\$	4,174	2	\$	8,348
09	Laboratory In Charge	\$	870	\$	10,435		\$	10,435
10	Laboratory Technician	\$	391	\$	4,696	3	\$	14,087
11	Sr. Engineer-(Elect/Mech./Civ.)	\$	870	\$	10,435	6	\$	62,609
12	Sr./Jr. Technician	\$	348	\$	4,174	6	\$	25,043
13	Sr./Jr. Mechanic/Electrician	\$	348	\$	4,174	4	\$	16,696
14	Sulpher Di-Oxide Operator	\$	217	\$	2,609	4	\$	10,435
15	Granding/Germ Wash Operator	\$	217	\$	2,609	4	\$	10,435
16	Starch Wash Operator	\$	217	\$	2,609	4	\$	10,435
17	Gluten Dryer Operator	\$	217	\$	2,609	4	\$	10,435
18	Boiler Operator	\$	217	\$	2,609	3	\$	7,826
19	By Product Operator	\$	217	\$	2,609	6	\$	15,652
20	Packing Operator	\$	217	\$	2,609	6	\$	15,652
21	Machine Operator (Sub Station)	\$	261	\$	3.130	3	\$	9,391
22	Machine Operator (Silo)	\$	261	\$	3.130	3	\$	9,391
23	Fire Fighter	\$	217	\$	2,609	2	\$	5,217
24	Fork Lift Operator	\$	217	\$	2,609	3	\$	7,826
25	Finish Good Worker	\$	174	\$	2,087	10	\$	20,870
26	Executive Accounts-Factory	\$	348	\$	4,174	3	\$	12,522
27	Executive Purchase-Factory	\$	348	\$	4,174	1	\$	4,174
28	Time Keeper	\$	157	\$	1,878	2	\$	3,757
29	Security Guard	\$	104	\$	1,252	10	\$	12,522
30	Peon	\$	87	\$	1,043	2	\$	2,087
31	Cleaner	\$	70	\$	835	2	\$	1,670
	Sub-Total	<u> </u>				107	\$	444,209
Maint	tenance & Utility :							,
	Designation	Sala	ary/month	Sa	lary/Anum	No.	Tota	I Salary/Anum
01	Maintenance Incharge	\$	435	\$	5,217	1	\$	5,217
02	Fitter/Mechanics	\$	261	\$	3,130	2	\$	6,261
03	Electrician	\$	130	\$	1,565	2	\$	3,130
04	Generator Operator	\$	122	\$	1,461	2	\$	2,922
	Sub-Total	1				7	\$	17,530



Store	s :							
	Designation	Sala	ary/month	Sa	alary/Anum	No.	Tot	al Salary/Anum
01	Manager	\$	434.78	\$	5,217.39	1	\$	5,217
02	Inventory Officer	\$	217.39	\$	2,608.70	1	\$	2,609
03	Store Keeper	\$	130.43	\$	1,565.22	2	\$	3,130
05	Labour	\$	69.57	\$	834.78	10	\$	8,348
	Sub-Total		-		-	14	\$	19,304
Head	office, Accounts, Commercial & Mar	keting						
	Designation	Sala	iry / month	Sa	lary / Anum	No.	Tot	al Salary/Anum
01	Director Remuneration	\$	870	\$	10,435	5	\$	52,174
01	Manging Director	\$	2,174	\$	26,087	1	\$	26,087
02	CFO	\$	1,739	\$	20,870	1	\$	20,870
03	Accounts Officer	\$	348	\$	4,174	4	\$	16,696
04	Sales and Marketing Manager	\$	1,304	\$	15,652	1	\$	15,652
05	Sales and Marketing -Executive	\$	348	\$	4,174	10	\$	41,739
06	Manager-Commercial	\$	435	\$	5,217	1	\$	5,217
07	Commercial Officer	\$	261	\$	3,130	3	\$	9,391
08	Manager-HR & Admin	\$	435	\$	5,217	1	\$	5,217
09	Executive Officer -HR & Admin	\$	261	\$	3,130	3	\$	9,391
10	Driver	\$	139	\$	1,670	5	\$	8,348
11	Peon	\$	87	\$	1,043	2	\$	2,087
12	Cleaner	\$	61	\$	730	1	\$	730
	Sub-Total					38	\$	213,600
						No. of		Total Yearly
	Total Manpower Requirement					Employees		Salary
			Production Or	onto	d Employooo	128	\$	481.043
					nd Marketing	38	э \$	213,600
			Je-Aumin, Sai	es di		38	Φ	213,000
				Ģ	arand Total	166	\$	694,643
			Per Employ	ee S	alary/Month		\$	349



Agro Proc	akshi Gree Manufact Salary	uriı			nt		
							Fig. in USD
Particulars	 1st Year		2nd Year	 3rd Year		4th Year	 5th Year
Salary and Wages	 			 			 
Factory Salary and Wages	\$ 481,043	\$	481,043	\$ 505,096	\$	529,148	\$ 554,403
Head office: Accounts, Sales & Marketing	\$ 213,600	\$	213,600	\$ 224,280	\$	234,960	\$ 246,174
Salary Increment(5% each year)							
Factory Salry and Wages		\$	24,052	\$ 24,052	\$	25,255	\$ 26,457
Head office: Accounts, Sales & Marketing		\$	10,680	\$ 10,680	\$	11,214	
Bonus per year							
Factory Salary and Wages	\$ 40,087	\$	40,087	\$ 42,091	\$	44,096	\$ 46,200
Head office: Accounts, Sales & Marketing	\$ 17,800	\$	17,800	\$ 18,690	\$	19,580	\$ 20,515
Total Salary and wages	 			 			 
Factory Salary and Wages	\$ 521,130	\$	545,183	\$ 571,239	\$	598,498	\$ 627,060
Head office: Accounts, Sales & Marketing	\$ 231,400	\$	242,080	\$ 253,650	\$	265,754	\$ 266,689
Total Salary and Wages	\$ 752,530	\$	787,263	\$ 824,889	\$	864,252	\$ 893,749
Average Mothly Salary and wages					******		 
Factory Salary and Wages	\$ 43,428	\$	45,432	\$ 47,603	\$	49,875	\$ 52,255
Head office: Accounts, Sales & Marketing	\$ 19,283	\$	20,173	\$ 21,138	\$	22,146	\$ 22,224
Total Salary and Wages	\$ 62,711	\$	65,605	\$ 68,741	\$	72,021	\$ 74,479



#### 8.11.2 Administrative, Selling and Marketing Expenses

	Agro Pro	akshi Green duct Manufactur ninistration, Selling a	ing and Proc	essing Plant		F	ig.in USD
S.N	Particulars	% on Revenue	1st Year	2nd Year	3rd Year	4th Year	5th Year
1	Salary-Admin, Sales and Marketing		231	242	254	266	267
2	Sales, Marketing and Promotional Expenses	1.50%	338,861	390,669	419,316	447,423	475,517
3	Printing and Stationery Expenses	0.10%	22,591	26,045	27,954	29,828	31,701
4	Electricity Head Office and General	0.10%	22,591	26,045	27,954	29,828	31,701
5	Travelling and Conveyance	0.25%	56,477	65,112	69,886	74,570	79,253
6	Postage, Telegram and Telephone	0.15%	33,886	39,067	41,932	44,742	47,552
7	Entertainment	0.20%	45,182	52,089	55,909	59,656	63,402
8	Legal and audit fees	0.25%	56,477	65,112	69,886	74,570	79,253
9	Insurance(Fire)	0.50%	112,954	130,223	139,772	149,141	158,506
10	Miscelleneous Expenses	0.10%	22,591	26,045	27,954	29,828	31,701
		3.15%	711,840	820,648	880,818	939,854	998,852
			3.15%	3.15%	3.15%	3.15%	3.15%

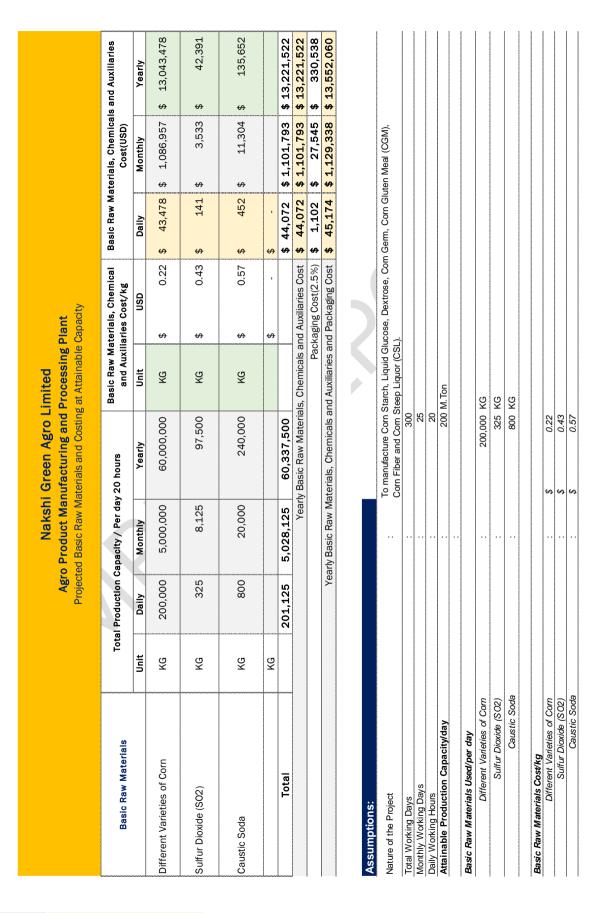
Annual Projected Sales Revenue Calculation at attainable Capacity 8.12

		Production MIX	Tota	Total Production Capacity/ Per day 20 hours /KG	acity/ Per day 20 i	hours /KG	Average Sales Price/KG	es Price/K	g		Total Sales in USD	n USD	
Type of Products	Product Category		Unit	Daily	Monthlv	Yearly	Unit	dsn		Daily	Monthly		Yearly
Corn Starch	Main Product	30.00%	Q	60.000	1.500.000	18,000,000	УG	\$ 0.63	\$ 03	37.565	\$ 939.130	<del>6</del>	11.269.565
Liquid Glucose	Main Product	25.00%	KG	50,000	1,250,000	15,000,000	КG		+	39,130		+	11,739,130
Dextrose	Main Product	12.50%	КG	25,000	625,000	7,500,000	KG	\$ 0.98	<u> </u>	24,565			7,369,565
Corn Germ	By Product	6.50%	KG	13,000	325,000	3,900,000	KG		+	6,330		1	1,899,130
Corn Gluten Meal (CGM)	By Product	5.50%	KG	11,000	275,000	3,300,000	КG			8,130			2,439,130
Corn Fiber	By Product	12.00%	KG	24,000	600,000	7,200,000	КG	\$	0.35 \$	8,348	\$ 208,696	\$	2,504,348
Corn Steep Liquor (CSL)	By Product	3.50%	KG	7,000	175,000	2,100,000	КG			791	\$ 19,783		237,391
	Totol	OE8		100 000	1 750 000	E7 000 000			÷	4101 061	4 0 1 C 0	6	07 4E0 064
		800			4, rou,uuu		nor attaich	o canao	-	#124,001 #124 064	<b># 3,121,022</b>	<del>,</del> 4	107'004'10
				-	iotal projected Sales Nevenue as per attatable capacity		ber attalat	ole capac		124,801	\$ 3,121,52.	A	102,004,15
Assumptions:													
Nature of the Project				o manufacture Cor. CGM). Corn Fiber a	To manufacture Com Starch, Liquid Glucose, Dextrose, Com Germ, Com Gluten Meal (CGM), Com Fiber and Com Steep Liuuor (CSL).	cose, Dextrose, Con or (CSL).	n Germ, Corn C	Sluten Mea.					
Total Working Davs				300									
Monthly Working Days				25									
Daily Working Hours				20									
Attainable Production Capacity/day	Capacity/day			200 M.Ton	1.Ton								
Production Mix(%)							*****						
	Com Starch			30.00% 0	30.00% of total production								
	Liquid Glucose			25.00%									
	Dextrose			12.50%									
	Com Germ			6.50%									
	Corn Gluten Meal (CGM)			5.50%									
	Com Fiber Com Steen Linuor (CSL)			3 50%									
				0,000									
Average Sales Price(USD)/kg	SD/kg												
	Corn Starch												
****	Liquid Glucose			\$ 0.63 P	Per KG								
	Dextrose			\$ 0.78 P	Per KG								
	Corn Germ			\$ 0.98 Per KG	er KG								
	Corn Gluten Meal (CGM)			0.49	Per KG								
	Corn Fiber			0.74	Per KG								
	Corn Steep Liquor (CSL)			0.35	Per KG								
				\$ 0.11 P	Per KG								
Production loss/Wastage				5% c	5% on total production								

# Feasibility Report and Business Plan of Nakshi Green Agro Limited



Agro Product Manufacturing and Processing Project



Projected Raw Materials Consumption and Costing at Attainable Capacity 8.13





### 8.14 Projected Sales Revenue Calculation

<b>ا</b> Agro Produ	ict Ma	ni Green A Inufacturin Acted Sales	g	and Proce		ing Plant				
Destinutore		1 at Year		2nd Year		2rd Veer		Ath Year		Fig. in USD
Particulars Sales at attainable Capacity	\$	<b>1st Year</b> 37.458.261		37,458,261		37,458,261	\$	4th Year 37,458,261	\$	5th Year 37,458,261
	Þ		Φ		Φ		φ		Ф	
Capacity Utilization		65%		70%		75%		80%		85%
Sales at Capacity Utilization	\$	24,347,870	\$	26,220,783	\$	28,093,696	\$	29,966,609	\$	31,839,522
Add: Opening Stock of W.I.P (7 days)	\$	-	\$	568,117	\$	625,074	\$	670,105	\$	714,857
Total	\$	24,347,870	\$	26,788,900	\$	28,718,770	\$3	30,636,713	\$:	32,554,378
Less: Closing Stock of W.I.P (7 days)	\$	568,117	\$	625,074	\$	670,105	\$	714,857	\$	759,602
Total	\$	23,779,753	\$	26,163,825	\$	28,048,665	\$2	29,921,857	\$:	31,794,776
Add: Opening Stock of Finished Goods (15 days)	\$	-	\$	1,188,988	\$	1,308,191	\$	1,402,433	\$	1,496,093
Available for sale	\$	23,779,753	\$	27,352,813	\$	29,356,857	\$3	31,324,290	\$:	33,290,869
Less: Closing Stock of Finished Goods (15 days)	\$	1,188,988	\$	1,308,191	\$	1,402,433	\$	1,496,093	\$	1,589,739
Net Sales	\$	22,590,765	\$	26,044,622	\$	27,954,423	\$2	29,828,197	\$:	31,701,130



### 8.15 Fixed Asset and Depreciation Schedule

	Nakshi Green	Agro	Limited			
	Agro Product Manufacturin Fixed Assets and Dep	<u> </u>	U U			
SL	Particulars		Value	Rate of depreciation p.a	De	Fig. in USD preciation Amount Taka
01	Land and Land Development Cost	\$	1,031,739	0.00%	\$	-
02	Project Shed and Building	\$	3,385,915	5.00%	\$	169,295.73
03	Others Civils Construction( Water reserver, Internal Road, Main Gate, Boundary wall and Security Room )	\$	84,918	5.00%	\$	4,245.91
04	Machinery and Equipment(Imported)	\$	15,544,400	10.00%	\$	1,554,440.00
05	Import Duty, Customs, VAT and Insurance(4.5%)	\$	699,498	10.00%	\$	69,949.80
06	Machinery and Equipment(Local)	\$	347,826	10.00%	\$	34,782.61
07	Sub Station(3500 KVA) with all Accessories	\$	217,391	20.00%	\$	43,478.26
08	Fire Fighting, Fire Door , Fire Alarm and others	\$	43,478	20.00%	\$	8,695.65
09	Security Devices, CC Camera, CC TV, and Compliance Equipment	\$	30,435	20.00%	\$	6,086.96
10	Vehicle (Sixteen (15)- 15-MT Trucks Cpacity )	\$	584,348	20.00%	\$	116,869.57
11	Security Deposit and advance for Utility	\$	43,478	0.00%	\$	_
12	Office Decoration, Furniture-fixture & Office Equipment	\$	60,870	20.00%	\$	12,173.91
13	Machinery erection & installation	\$	86,957	10.00%	\$	8,695.65
14	Contingency for Civil Construction- 5%	\$	173,542	5.00%	\$	8,677.08
15	Contingency for Machinery -5%	\$	847,307	10.00%	\$	84,730.70
	Sub Total	\$	23,182,101		\$	2,122,121.83
16	Preliminary expenses	\$	30,435	20%	\$	6,086.96
19	IDCP	\$	1,417,956	20%	\$	283,591.19
	Sub Total	\$	1,448,391		\$	289,678.15
	Grand Total	\$	24,630,492		\$	2,411,799.98

	Depreciation	Residual Value
Year - 1	2,411,800	22,218,692
Year - 2	2,411,800	19,806,892
Year-3	2,411,800	17,395,092
Year - 4	2,411,800	14,983,292
Year - 5	2,411,800	12,571,492
Year - 6	1,996,557	10,574,935
Year - 7	1,996,557	8,578,379
Year-8	1,996,557	6,581,822
Year-9	1,996,557	4,585,266
Year-10	1,996,557	2,588,709



### 8.16 Break Even Calculation

Agri	duct Manufa	ctur	Agro Limi	essi			
	Break - E	ver	n Calculatio	n			
							Fig. in USD
Particulars	1st Year		2nd Year		3rd Year	4th Year	5th Year
Capacity Utilization	65%		70%		75%	80%	85%
Sales	\$ 22,590,765	\$	26,044,622	\$	27,954,423	\$ 29,828,197	\$ 31,701,130
Variable Cost							
Basic Raw Materials, Chemicals and Axiliaries Cost	\$ 8,808,839	\$	9,486,442	\$	10,164,045	\$ 10,841,648	\$ 11,519,251
Electricity, Water, Fuel & Lubricant	\$ 3,020,555	\$	3,252,905	\$	3,485,255	\$ 3,717,606	\$ 3,949,956
Repair, Maintenance & Stores	\$ 181,712	\$	272,568	\$	363,424	\$ 363,424	\$ 363,424
Load , unloading, Handling and Carrying Charge	\$ 132,133	\$	142,297	\$	152,461	\$ 162,625	\$ 172,789
Other Production Overhead	\$ 88,088	\$	94,864	\$	101,640	\$ 108,416	\$ 115,193
Administrative Expenses	\$ 711,840	\$	820,648	\$	880,818	\$ 939,854	\$ 998,852
Total Variable Cost	\$ 12,943,167	\$	14,069,723	\$	15,147,643	\$ 16,133,573	\$ 17,119,464
W.I.P Adjustment	\$ (205,540)	\$	7,905	\$	(14,117)	\$ (14,117)	\$ (14,117)
Finished Goods Adjustment (Excluded Depreciation)	\$ (537,588)	\$	(55,395)	\$	(45,327)	\$ (42,490)	\$ (42,656)
Net Variable Cost	\$ 12,200,039	\$	14,022,234	\$	15,088,199	\$ 16,076,966	\$ 17,062,691
Contribution Margin	\$ 10,390,726	\$	12,022,388	\$	12,866,224	\$ 13,751,231	\$ 14,638,439
Fixed Cost							
Depreciation & Amortization	\$ 2,411,800	\$	2,411,800	\$	2,411,800	\$ 2,411,800	\$ 2,411,800
Financial Expenses	\$ 842,661	\$	851,557	\$	811,484	\$ 767,123	\$ 720,182
Salaries & Wages	\$ 338,735	\$	381,628	\$	428,429	\$ 478,799	\$ 533,001
Total Fixed Cost	\$ 3,593,196	\$	3,644,985	\$	3,651,714	\$ 3,657,722	\$ 3,664,983
Break-Even % (on utilization Capacity)	34.58%		30.32%		28.38%	26.60%	25.04%
Break-Even % (on Attainable Capacity)	22.48%		21.22%		21.29%	21.28%	21.28%
Yearly Break Even Sales in Taka '000'	\$ 7,812,067	\$	7,896,289	\$	7,934,072	\$ 7,934,071	\$ 7,936,919
Monthly Break Even Sales in Taka '000'	\$ 651,006	\$	658,024	\$	661,173	\$ 661,173	\$ 661,410
Daily Break Even Sales in Taka '000'	\$ 26,040	\$	26,321	\$	26,447	\$ 26,447	\$ 26,456



### 8.17 Key Ratios Analysis

Nakshi Green Agro Limited Agro Product Manufacturing and Processing Plant											
Agro Product Mar	nufacturing	and Proce	ssing Plant	t							
Key	Ratios A	nalysis									
					Fig. in USD						
	1st Year	2nd Year	3rd Year	4th Year	5th Year						
Balance Sheet											
Cash	6,471,080	12,156,664	18,262,338	24,810,405	31,798,949						
Accounts receivable	1,223,666	1,519,270	1,747,151	1,988,546	2,245,497						
Total current assets	12,590,333	20,456,713	27,307,905	34,557,435	42,260,716						
Total long-term assets	22,218,692	19,806,892	17,395,092	14,983,292	12,571,492						
Total current liabilities	4,598,543	6,338,695	6,889,502	7,402,139	7,924,068						
Total long-term liabilities	23,740,949	23,891,172	22,787,493	21,578,465	20,308,823						
Total shareholders' equity	11,068,077	16,372,433	21,915,504	27,962,261	34,523,385						
Income Statement											
Total sales	22,590,765	26,044,622	27,954,423	29,828,197	31,701,130						
Gross profit	8,553,259	10,057,917	10,913,612	11,806,860	12,698,889						
Total operating expenses	7,841,419	9,237,269	10,032,794	10,867,006	11,700,036						
Income (loss) before taxes	6,998,758	8,385,712	9,221,310	10,099,883	10,979,854						
Net income (loss)	5,074,100	6,079,641	6,685,450	7,322,415	7,960,394						
KEY RATIOS Profitability Ratios											
Gross profit margin	37.86%	38.62%	39.04%	39.58%	40.06%						
Operating Profit	34.71%	35.47%	35.89%	36.43%	36.91%						
Net Income	22,46%	23.34%	23.92%	24.55%	25.11%						
Return on Investment	17.00%	17.21%	16.77%	16.33%	15.83%						
Return on Equity	45.84%	37.13%	30.51%	26.19%	23.06%						
Asset turnover ratio	0.65	0.65	0.63	0.60	0.58						
Leverage and Liquidity Ratios											
Current ratio	2.74	3.23	3.96	4.67	5.33						
Quick or acid test ratio	2.47	2.16	2.90	3.62	4.30						
Leverage ratio	314%	246%	204%	177%	159%						
Long-term debt ratio	0.68	0.59	0.51	0.44	0.37						
Debt to equity ratio	2.56	1.85	1.35	1.04	0.82						
Debt Service Coverage Ratio	3.42	3.73	3.91	4.10	4.29						



### 8.18 Return on Investment (ROI) & Return on Equity (ROE) Calculation

<b>Nakshi Green Agro Limited</b> Agro Product Manufacturing and Processing Plant Return on Investment (ROI) & Return on Equity (ROE) Calculation Fig. in USD											
Particulars		1st Year		2nd Year		3rd Year		4th Year		5th Year	
Net Income after Tax	\$	5,074,100	\$	6,079,641	\$	6,685,450	\$	7,322,415	\$	7,960,394	
Add: Financial Expenses	\$	842,661	\$	851,557	\$	811,484	\$	767,123	\$	720,182	
Total Income for ROI	\$	5,916,761	\$	6,931,198	\$	7,496,934	\$	8,089,538	\$	8,680,576	
Total Investment	\$	34,809,025	\$	40,263,605	\$	44,702,997	\$	49,540,727	\$	54,832,208	
Total Equity	\$	11,068,077	\$	16,372,433	\$	21,915,504	\$	27,962,261	\$	34,523,385	
Return on Investment (ROI)		17.00%		17.21%		16.77%		16.33%		15.83%	
Return on Equity (ROE)		45.84%		37.13%		30.51%		26.19%		23.06%	



### 8.19 PB, IRR and NPV Calculation

#### Nakshi Green Agro Limited

Agro Product Manufacturing and Processing Plant Payback Period(PB), Internal Rate of Return(IRR) and Net Present Value(NPV) Calculation

							Fig. in USD
Year	Cash Flows		Recovery of	initi	al outlay	Payback Year	Remarks
Teal	Cash Flows		Needed		Balance	Fayback Teal	Remarks
0	\$ (24,630,492)						
1	\$ 7,485,900	\$	24,630,492	\$	17,144,592	1.00	
2	\$ 8,491,441	\$	17,144,592	\$	8,653,151	1.00	
3	\$ 9,097,249	\$	8,653,151	\$	(444,099)	1.00	
4	\$ 9,734,215	\$	(444,099)	\$	(10,178,313)	-0.05	
5	\$ 10,372,194	\$	(10,178,313)	Γ			
6	\$ 10,337,736	\$	-				
7	\$ 10,400,085	\$	-				
8	\$ 10,447,528	\$	-				
9	\$ 10,496,779	\$	-				
10	\$ 13,136,668	\$	-				With Salvage Value
	Τα	otal	Payback Period(F	PB)		2.95	

This expansion project promises to return back its total initial investment within very short time, the detailed calculations of which is as follows. The project payback period is 2.95 years.

#### DISCOUNTED PAYBACK PERIOD (DPB), INTERNAL RATE OF RETURN (IRR) & NET PRESENT VALUE (NPV)

							Fig. in USD
Year	Cash Flows	PV of Tk 1.00 @ 4%	PV	of Cash Flows	C	umulative PV of Cash Flow	Discounted Payback Period
0	\$ (24,630,492)	1.0000	\$	(24,630,492)	\$	(24,630,492)	
1	\$ 7,485,900	0.9615	\$	7,197,980	\$	(17,432,512)	1.00
2	\$ 8,491,441	0.9246	\$	7,850,815	\$	(9,581,697)	1.00
3	\$ 9,097,249	0.8890	\$	8,087,422	\$	(1,494,275)	1.00
4	\$ 9,734,215	0.8548	\$	8,320,848	\$	6,826,573	0.18
5	\$ 10,372,194	0.8219	\$	8,525,188			
6	\$ 10,337,736	0.7903	\$	8,170,063			
7	\$ 10,400,085	0.7599	\$	7,903,210			
8	\$ 10,447,528	0.7307	\$	7,633,906			
9	\$ 10,496,779	0.7026	\$	7,374,897			
10	\$ 13,136,668	0.6756	\$	8,874,662			
	Net Pres	ent Value	\$	55,308,499			2.40
	Internal Rate	of Return (IRR)		34.70%			3.18

Discounted Payback period is 3.18 years

#### Net Present Value(NPV)

The future cash inflow and outflow of the project has been considered with the time value of money. The project will have a positive attractive net present value of USD 55.31 million.

#### Internal Rate of Return (IRR)

The internal rate of return has been computed following the discounted cash flow method. The project promises an Internal Rate of Return (IRR) of 34.70%.



### 8.20 Schedule of Loan-Repayment

### 8.20.1 Equal Quarterly Instalment Basis

					Fig. in USI
		shi Green Agro Li			
		t Manufacturing and Pr			
	Schedule of	Loan-Repayment(C	()uaterly Basis		
	Loan Amount - Original		17,724,450		
	IDCP		1,417,956		
	Total Loan Including IDCP		19,142,405		
	Term (Including 24 Months Mora	atorium Period)			
				ars	
	Mode of Repayment :	Equ	ual Quarterly Install		
	Period :		40.00 Qu		
	Rate of Interest :		4.00% p.a	а.	
	EQI :		582,993		
Years	No. Of S Installments	Amount	Interest	EQI	Balanc
	1	19,142,405	191,424	582,993	18,750,836
	2	18,750,836	187,508	582,993	18,355,351
′ear - 1	3	18,355,351	183,554	582,993	17,955,91
742,045		17,955,911	179,559	582,993	17,552,47
	5	17,552,477	175,525	582,993	17,145,008
	6	17,145,008	171,450	582,993	16,733,46
′ear - 2	7	16,733,465	167,335	582,993	16,317,800
677,488		16,317,806	163,178	582,993	15,897,99
	9	15,897,991	158,980	582,993	15,473,97
′ear - 3	10 11	15,473,977	154,740	582,993	15,045,72
610,309		15,045,724 14,613,188	150,457 146,132	582,993 582,993	14,613,188 14,176,320
010,309	13	14,176,326	141,763	582,993	13,735,090
	14	13,735,096	137,351	582,993	13,289,45
ear - 4	15	13,289,453	132,895	582,993	12,839,35
540,402		12,839,355	128,394	582,993	12,384,75
	17	12,384,755	123,848	582,993	11,925,60
	18	11,925,609	119,256	582,993	11,461,87
ear - 5	19	11,461,872	114,619	582,993	10,993,49
467,657	20	10,993,497	109,935	582,993	10,520,43
	21	10,520,438	105,204	582,993	10,042,64
	22	10,042,649	100,426	582,993	9,560,08
ear - 6	23	9,560,082	95,601	582,993	9,072,69
391,959		9,072,690	90,727	582,993	8,580,42
	25	8,580,423	85,804	582,993	8,083,23
oor 7	26 27	8,083,234	80,832	582,993	7,581,07
ear - 7 313,186	27 28	7,581,073 7,073,890	75,811 70,739	582,993 582,993	7,073,89
313,100	28	6,561,636	65,616	582,993 582,993	6,561,63 6,044,25
	30	6,044,259	60,443	582,993	5,521,70
ear - 8	31	5,521,708	55,217	582,993	4,993,93
231,215		4,993,932	49,939	582,993	4,460,87
,0	33	4,460,878	44,609	582,993	3,922,49
	34	3,922,493	39,225	582,993	3,378,72
ear - 9	35	3,378,725	33,787	582,993	2,829,51
145,916	36	2,829,518	28,295	582,993	2,274,82
	37	2,274,820	22,748	582,993	1,714,57
	38	1,714,575	17,146	582,993	1,148,72
'ear - 10	39	1,148,727	11,487	582,993	577,22
57,153	40	577,221	5,772	582,993	

### 8.20.2 Equal Monthly Instalment Basis

	Agro Produc	ct Man	Green Agro L Nufacturing and F an-Repayment(N	Processing Pla		Fig
Loan Particulars				Loan Summary		1.6
Long Term Loan Amount	19,142,405			eduled Payment	193,808	
Loan Amount	17,724,450		Scheduled Numb		120	
IDCP	1,417,956		Actual Numb	per of Payments	120	
Moratorium Period(Months)	12		Total	Early Payments	-	
Annual Interest Rate	4.00%			Total Interest	4,114,500	
Loan Period in Years	10		T	otal Payment	23,256,906	
Number of Payments Per Year	12					
Start Date of Loan	1/1/2024					
Optional Extra Payments	-					

1         2/1/2024         19.12/06         19.808         193.808         190.000         63.805         190.12.406         63.805           3         4/1/2024         18.861.973         193.808         198.808         130.433         63.375         18.861.973         197.335           4         5/1/2024         18.751.105         193.808         193.808         193.808         22.504         18.61.960         22.524           5         6/1/2024         18.480.00         193.806         193.808         131.304         62.504         18.61.980         22.524           6         6/1/2024         18.488.060         193.808         193.808         132.181         61.1627         18.355.879         376.311           7         8/1/2024         18.285.879         193.808         193.808         133.635         60.744         18.909.15         493.808         133.952         59.856         17.822.736         618.406           11         11/1/2024         17.656.88         193.808         193.808         133.952         59.856         17.853.491         797.76           12         1/1/2025         17.486.337         193.808         193.808         134.844         59.961         17.553.491         797.77         <	Pmt	Payment	Beginning	Scheduled	Extra	Total			Ending	Cumulative
2         9/1/2024         19.012.406         193.808         -         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.808         193.80	No.	Date	Balance	Payment	Payment	Payment	Principal	Interest	Balance	Interest
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1	2/1/2024	19,142,405	193,808	-	193,808	130,000	63,808	19,012,406	63,808
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2	3/1/2024	19,012,406	193,808	-	193,808	130,433	63,375	18,881,973	127,183
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3	4/1/2024	18,881,973	193,808	-	193,808	130,868	62,940	18,751,105	190,123
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	4	5/1/2024	18,751,105	193,808	-	193,808	131,304	62,504	18,619,802	252,626
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5	6/1/2024	18,619,802	193,808	-	193,808	131,742	62,066	18,488,060	314,692
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6	7/1/2024	18,488,060	193,808	-	193,808	132,181	61,627	18,355,879	376,319
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	7	8/1/2024	18,355,879	193,808	-	193,808	132,621	61,186	18,223,258	437,505
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8	9/1/2024	18,223,258	193,808	-	193,808	133,063	60,744	18,090,195	498,250
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9	10/1/2024	18,090,195	193,808	-	193,808	133,507	60,301	17,956,688	558,550
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10	11/1/2024	17,956,688	193,808	-	193,808		59.856	17.822.736	618,406
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11	12/1/2024	17,822,736	193,808	-	193,808	***************************************	59,409	17.688.337	677,815
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	12		17.688.337	193.808	-	193.808	134.846	58.961		736.776
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13	2/1/2025		193,808	-	193,808	135,296	58,512	17,418,195	795,288
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14		17.418.195	193.808	-	193.808	135.747	58.061	17.282.448	853.348
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	15	*****		193.808	-		136.199	57.608		910.957
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	16	*****	*****		-	*****			*****	968,111
$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	17				-					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	18			*****	-					
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	33 34				_					
36         1/1/2027         14,324,878         193,808         -         193,808         146,058         47,750         14,178,820         2,013,487           37         2/1/2027         14,178,820         193,808         -         193,808         146,545         47,263         14,032,275         2,060,745           38         3/1/2027         14,032,275         193,808         -         193,808         147,033         46,774         13,885,242         2,107,524           39         4/1/2027         13,885,242         193,808         -         193,808         147,523         46,284         13,737,719         2,153,806           40         5/1/2027         13,737,719         193,808         -         193,808         148,015         45,792         13,589,704         2,199,600           41         6/1/2027         13,789,704         193,808         -         193,808         148,509         45,299         13,441,195         2,244,895           412         7/1/2027         13,280,704         193,808         -         193,808         149,500         44,804         13,292,192         2,289,702           13         8/1/2027         13,292,192         193,808         -         193,808         149,500	34 35									
37         2/1/2027         14,178,820         193,808         -         193,808         146,545         47,263         14,032,275         2,060,745           38         3/1/2027         14,032,275         193,808         -         193,808         147,033         46,774         13,885,242         2,107,524           39         4/1/2027         13,885,242         193,808         -         193,808         147,523         46,284         13,737,719         2,153,806           40         5/1/2027         13,737,719         193,808         -         193,808         148,015         45,792         13,589,704         2,199,600           41         6/1/2027         13,589,704         193,808         -         193,808         148,509         45,299         13,441,195         2,244,895           42         7/1/2027         13,241,195         193,808         -         193,808         149,500         44,804         13,292,192         2,289,704           43         8/1/2027         13,292,192         193,808         -         193,808         149,500         44,307         13,142,691         2,334,010           44         9/1/2027         13,142,691         193,808         -         193,808         149,999	36						······			
388       3/1/2027       14,032,275       193,808       -       193,808       147,033       46,774       13,885,242       2,107,524         399       4/1/2027       13,885,242       193,808       -       193,808       147,523       46,284       13,737,719       2,153,806         400       5/1/2027       13,737,719       193,808       -       193,808       148,015       45,792       13,589,704       2,199,600         41       6/1/2027       13,589,704       193,808       -       193,808       148,509       45,299       13,441,195       2,244,895         42       7/1/2027       13,441,195       193,808       -       193,808       149,004       44,804       13,292,192       2,289,703         43       8/1/2027       13,242,691       193,808       -       193,808       149,500       44,307       13,142,691       2,334,010         44       9/1/2027       13,142,691       193,808       -       193,808       149,999       43,809       12,992,693       2,377,815	·				-	· · · · · · · · · · · · · · · · · · ·	·····			
394/1/202713,885,242193,808-193,808147,52346,28413,737,7192,153,806405/1/202713,737,719193,808-193,808148,01545,79213,589,7042,199,600416/1/202713,589,704193,808-193,808148,50945,29913,441,1952,244,896427/1/202713,441,195193,808-193,808149,00444,80413,292,1922,289,703438/1/202713,292,192193,808-193,808149,50044,30713,142,6912,334,010449/1/202713,142,691193,808-193,808149,99943,80912,992,6932,377,815					-					
405/1/202713,737,719193,808-193,808148,01545,79213,589,7042,199,600416/1/202713,589,704193,808-193,808148,50945,29913,441,1952,244,895427/1/202713,441,195193,808-193,808149,00444,80413,292,1922,289,703438/1/202713,292,192193,808-193,808149,50044,30713,142,6912,334,010449/1/202713,142,691193,808-193,808149,99943,80912,992,6932,377,815	000000000000000000000000000000000000000	*****			-		***************************************		*****	******
41         6/1/2027         13,589,704         193,808         -         193,808         148,509         45,299         13,441,195         2,244,895           42         7/1/2027         13,441,195         193,808         -         193,808         149,004         44,804         13,292,192         2,289,703           43         8/1/2027         13,292,192         193,808         -         193,808         149,500         44,307         13,142,691         2,334,010           44         9/1/2027         13,142,691         193,808         -         193,808         149,999         43,809         12,992,693         2,377,815					-					
127/1/202713,441,195193,808-193,808149,00444,80413,292,1922,289,703138/1/202713,292,192193,808-193,808149,50044,30713,142,6912,334,010149/1/202713,142,691193,808-193,808149,99943,80912,992,6932,377,815					-					
43         8/1/2027         13,292,192         193,808         -         193,808         149,500         44,307         13,142,691         2,334,010           44         9/1/2027         13,142,691         193,808         -         193,808         149,999         43,809         12,992,693         2,377,815		*****			-					
44 9/1/2027 13,142,691 193,808 - 193,808 149,999 43,809 12,992,693 2,377,819		*****			-		***************************************			******
					-		****			
+0 10/1/2027 12,992,093 193,808 - 193,808 150,499 43,309 12,842,194 2,421,128					-					
	45	10/1/2027	12,992,693	193,808	-	193,808	150,499	43,309	12,842,194	2,421,12







	44/4/0007	10.010.101	400.000		400.000	454.000	10.007	10.001.101	
46 47	11/1/2027	12,842,194	193,808	-	193,808	151,000	42,807	12,691,194	2,463,9
+7 48	12/1/2027 1/1/2028	12,691,194 12,539,690	193,808 193,808	-	193,808 193,808	151,504 152,009	42,304 41,799	12,539,690 12,387,682	2,506,2
+0 49	2/1/2028	12,387,682	193,808	-	193,808	152,515	41,292	12,235,166	2,548,0
+9 50	******	12,235,166	193,808	-	193,808	153,024	40,784	12,082,143	2,589,5
50 51	3/1/2028		******	-	***************************************	******	******	11,928,609	*****
******	4/1/2028	12,082,143	193,808	-	193,808	153,534	40,274		2,670,3
52	5/1/2028	11,928,609	193,808	-	193,808	154,046	39,762	11,774,564	2,710,1
53	6/1/2028	11,774,564	193,808	-	193,808	154,559	39,249	11,620,005	2,749,3
54	7/1/2028	11,620,005	193,808	-	193,808	155,074	38,733	11,464,930	2,788,1
5	8/1/2028	11,464,930	193,808	-	193,808	155,591	38,216	11,309,339	2,826,3
6	9/1/2028	11,309,339	193,808	-	193,808	156,110	37,698	11,153,229	2,864,0
7	10/1/2028	11,153,229	193,808	-	193,808	156,630	37,177	10,996,599	2,901,2
8	11/1/2028	10,996,599	193,808	-	193,808	157,152	36,655	10,839,447	2,937,8
9	12/1/2028	10,839,447	193,808	-	193,808	157,676	36,131	10,681,771	2,974,0
0	1/1/2029	10,681,771	193,808	-	193,808	158,202	35,606	10,523,569	3,009,6
1	2/1/2029	10,523,569	193,808		193,808	158,729	35,079	10,364,840	3,044,6
2	3/1/2029	10,364,840	193,808		193,808	159,258	34,549	10,205,582	3,079,2
3			193,808	_	******		34,019		3,113,2
	4/1/2029	10,205,582		-	193,808	159,789		10,045,793	
4	5/1/2029	10,045,793	193,808	-	193,808	160,322	33,486	9,885,472	3,146,7
5	6/1/2029	9,885,472	193,808	-	193,808	160,856	32,952	9,724,616	3,179,7
6	7/1/2029	9,724,616	193,808	-	193,808	161,392	32,415	9,563,224	3,212,1
7	8/1/2029	9,563,224	193,808	-	193,808	161,930	31,877	9,401,294	3,243,9
8	9/1/2029	9,401,294	193,808	-	193,808	162,470	31,338	9,238,824	3,275,3
9	10/1/2029	9,238,824	193,808	-	193,808	163,011	30,796	9,075,812	3,306,1
0	11/1/2029	9,075,812	193,808	-	193,808	163,555	30,253	8,912,257	3,336,3
1	12/1/2029	8,912,257	193,808	-	193,808	164,100	29,708	8,748,157	3,366,0
2	1/1/2030	8,748,157	193,808	-	193,808	164,647	29,161	8,583,510	3,395,2
2 3	2/1/2030	8,583,510	193,808		193,808	165,196	28,612	8,418,314	3,423,8
3 4		8,418,314				165,747		8,252,568	
	3/1/2030		193,808	-	193,808	******	28,061	~~~~~	3,451,9
5	4/1/2030	8,252,568	193,808	-	193,808	166,299	27,509	8,086,269	3,479,4
6	5/1/2030	8,086,269	193,808	-	193,808	166,853	26,954	7,919,416	3,506,3
7	6/1/2030	7,919,416	193,808	-	193,808	167,409	26,398	7,752,006	3,532,7
8	7/1/2030	7,752,006	193,808	-	193,808	167,968	25,840	7,584,039	3,558,6
9	8/1/2030	7,584,039	193,808	-	193,808	168,527	25,280	7,415,511	3,583,9
0	9/1/2030	7,415,511	193,808	-	193,808	169,089	24,718	7,246,422	3,608,6
1	10/1/2030	7,246,422	193,808	-	193,808	169,653	24,155	7,076,769	3,632,7
2	11/1/2030	7,076,769	193,808	-	193,808	170,218	23,589	6,906,551	3,656,3
3	12/1/2030	6,906,551	193,808	-	193,808	170,786	23,022	6,735,765	3,679,3
4	1/1/2031	6,735,765	193,808	-	193,808	171,355	22,453	6,564,410	3,701,8
5	2/1/2031	6,564,410	193,808		193,808	171,926	21,881	6,392,484	3,723,7
6	3/1/2031	6,392,484	193,808	-	193,808	172,499	21,308	6,219,985	3,745,0
37 37				-	***************************************				
	4/1/2031	6,219,985	193,808	-	193,808	173,074	20,733	6,046,911	3,765,7
8	5/1/2031	6,046,911	193,808	-	193,808	173,651	20,156	5,873,259	3,785,9
9	6/1/2031	5,873,259	193,808	-	193,808	174,230	19,578	5,699,029	3,805,4
0	7/1/2031	5,699,029	193,808	-	193,808	174,811	18,997	5,524,219	3,824,4
1	8/1/2031	5,524,219	193,808	-	193,808	175,393	18,414	5,348,825	3,842,9
2	9/1/2031	5,348,825	193,808	-	193,808	175,978	17,829	5,172,847	3,860,7
3	10/1/2031	5,172,847	193,808	-	193,808	176,565	17,243	4,996,282	3,877,9
4	11/1/2031	4,996,282	193,808	-	193,808	177,153	16,654	4,819,129	3,894,6
5	12/1/2031	4,819,129	193,808	-	193,808	177,744	16,064	4,641,385	3,910,6
6	1/1/2032	4,641,385	193,808	-	193,808	178,336	15,471	4,463,049	3,926,1
7	2/1/2032	4,463,049	193,808	_	193,808	178,931	14,877	4,284,118	3,941,0
8		4,284,118	193,808		193,808	179,527	14,280	4,104,591	3,955,3
*****	3/1/2032								
9	4/1/2032	4,104,591	193,808	-	193,808	180,126	13,682	3,924,465	3,969,0
00	5/1/2032	3,924,465	193,808	-	193,808	180,726	13,082	3,743,739	3,982,0
01	6/1/2032	3,743,739	193,808	-	193,808	181,328	12,479	3,562,411	3,994,5
02	7/1/2032	3,562,411	193,808	-	193,808	181,933	11,875	3,380,478	4,006,4
03	8/1/2032	3,380,478	193,808	-	193,808	182,539	11,268	3,197,939	4,017,7
04	9/1/2032	3,197,939	193,808	-	193,808	183,148	10,660	3,014,791	4,028,3
05	10/1/2032	3,014,791	193,808	-	193,808	183,758	10,049	2,831,033	4,038,4
06	11/1/2032	2,831,033	193,808	-	193,808	184,371	9,437	2,646,662	4,047,8
07	12/1/2032	2,646,662	193,808	-	193,808	184,985	8,822	2,461,677	4,056,6
08	1/1/2033	2,461,677	193,808	-	193,808	185,602	8,206	2,276,075	4,064,8
09	2/1/2033	2,276,075	193,808	-	193,808	186,221	7,587	2,089,854	4,072,4
10			193,808		193,808	186,841	6,966		
*****	3/1/2033	2,089,854		-				1,903,013	4,079,4
11	4/1/2033	1,903,013	193,808	-	193,808	187,464	6,343	1,715,549	4,085,7
12	5/1/2033	1,715,549	193,808	-	193,808	188,089	5,718	1,527,460	4,091,5
13	6/1/2033	1,527,460	193,808	-	193,808	188,716	5,092	1,338,744	4,096,5
	7/1/2033	1,338,744	193,808	-	193,808	189,345	4,462	1,149,398	4,101,0
		1,149,398	193,808	-	193,808	189,976	3,831	959,422	4,104,8
.14	8/1/2033	1,140,000							
14 15 16	8/1/2033 9/1/2033	959,422	193,808	-	193,808	190,609	3,198	768,813	4,108.0
14 15 16	9/1/2033	959,422	~~~~~	-			~~~~~	*****	
14 15 16 17	9/1/2033 10/1/2033	959,422 768,813	193,808	-	193,808	191,245	2,563	577,568	4,110,6
.14 .15	9/1/2033	959,422	~~~~~				~~~~~	*****	4,108,0 4,110,6 4,112,5 4,113,8



### 9. Economic Aspect

#### 9.1. Employment Opportunity:

The project will require a total number of 166 persons of various categories. Cost per employment to be generated works out to USD 349.00 per month.

#### 9.2. Contribution to GDP

### Nakshi Green Agro Limited

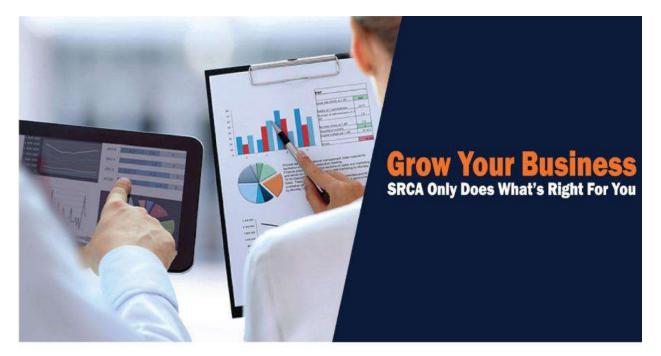
Agro Product Manufacturing and Processing Plant Contribution To GDP

Fig. in USD

On Completion, the project will add USD 11.57 million to the Gross Domestic Product (GDP) of the country

per annum as detailed below :-

A. Revenue Receipts (3rd Year)		\$ 27,954,423
B. Less: Inter Firm Transaction		
Basic Raw Materials, Chemicals and Auxiliaries cost	\$10,164,045	
Salaries & Wages	\$ 428,429	
Electricity, Water, Fuel & Lubricant	\$ 3,485,255	
Repair, Maintenance & Stores	\$ 363,424	
Load, unloading, Handling and Carrying Charge	\$ 152,461	
Other Production Overhead	\$ 101,640	
Administrative & Marketing Expenses	\$ 880,818	
Financial Expenses	\$ 811,484	
		\$ 16,387,557
Contribution To GDP		\$ 11.566.866



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SAMPLE REPORT

# Feasibility Report and BUSINESS PLAN of Nakshi Green Agro Limited



### **PROJECT LOCATION**

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