

Feasibility Report and BUSINESS PLAN of Balaji Industries Ltd

PROJECT COST BDT 312.52 MILLION







INVESTMENT PROPOSAL

Total Loan Required	: BDT 167.92 mln
Long-Term Loan	: BDT 65.96 mln
Short-Term Loan	: BDT 101.97 mln
Non-Funded Facilities	
LC Facilities	: BDT 80.00 mln
Funded Facilities	
CC Hypo/OD	: BDT 21.97 mln
Debt-Equity Ratio	
Long-Term Finance	: 40.99 : 59.01
Short-Term Finance	: 70.00 : 30.00
Proposed Interest Rate	: 9.00%
Loan Tenure	: 6 years
Moratorium Period	: 12 months
Equal Monthly Instalments (EMI)	: BDT 1.05 mln
Equal Quarterly Instalments (EQI)	: BDT 3.91 mln

PROJECTED KEY FINANCIALS (Five Years Average)

Yearly Sales Target

: BDT 580.80 mln Net Profit Target : BDT 42.88 mln Gross Profit (GP) : 15.60% Operating Profit (OP) : 11.73% Net Profit (NI) : 7.28%

Key Decision Points

IRR : 32.15% ROI : 10.18% ROE : 17.00% Payback period : 3.46 years Discounted Payback Period : 4.18 years **Debt Service Coverage Ratio** : 2.97 Times Break Even (BEP) : 30.57%

NPV : BDT 279.32 mln

of Balaji Industries Ltd









of Balaji Industries Ltd



1.1 Review and Outlook of the Paper Sizing Emulsions Industry

Paper sizing emulsions are used in the internal processes of paper manufacturing. These chemicals increase the stability, productivity, performance, and cost efficiency in the manufacturing processes of paper. Paper sizing emulsions have wide variety of applications in various paper industries for manufacturing of different kinds of papers such as packing papers, magazines, laminations, envelopes, and tissue papers.

Increase in disposable income coupled with high standard of living is escalating the use of paper for packaging which in turn boosts the growth of Paper sizing emulsions material market. Increase in use of papers for printing and writing applications has also fueled the market. The global Paper sizing emulsions Market size is forecast to reach \$42 Billion by 2025, after growing at a CAGR of 3% during 2020-2025. Paper sizing emulsions are a group of chemicals that are used for manufacturing paper along with enhancing the properties of paper. Increase in use of paper for packaging applications is augmenting the growth of Paper sizing emulsions market share during the forecast period.

These chemicals alter the paper in many ways including its color, brightness, strength and resistance towards water. Moreover, increasing environmental concerns and usage of eco-friendly packaging materials is also driving the growth of Paper sizing emulsions market size.

The major types of Paper sizing emulsions include Sizing Agents, Bleaching Chemicals (Sodium Dithionite, Ozone, Chlorine Dioxide, Hydrogen Peroxide, Others), Pulping Chemicals (Caustic Soda, Sodium Sulfide, Sulfurous Acid, Anthraquinone), Functional Chemicals (Dry Strength Additives, Wet Strength Additives, Coating Binders, Others) and Others.

Asia-Pacific has dominated the Paper sizing emulsions market with a share of more than 35% in 2022 followed by North America and Europe. Easy access of raw materials and presence of paper and pulp industries is driving the growth of paper chemical market in APAC region.

According to research, paper use is steadily increasing year on year and exceeded to 400 million tons per year in 2023 More than half of this is consumed by China, U.S and Japan whereas Africa accounts for only 2% of global paper use.

Furthermore, rising population coupled with rapid industrialization is also boosting the growth of Paper sizing emulsions market in emerging economic nations like China, India and Bangladesh.

Increase in disposable income coupled with high standard of living is escalating the use of paper for packaging which in turn boosts the growth of Paper sizing emulsions material market. Increase in use of papers for printing and writing applications has also fueled the market.

Due to huge market potential and sizable market, Balaji Industries Ltd (BIL) has taken initiative to set up a Paper Sizing Emulsion Manufacturing Project Brahmanbaga, Jampur, Sonargaon, Narayanganj, Bangladesh with latest technology. As per market analysis, this project will be technically feasible, financially rewarding and economically & commercially viable.

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1.2 About Balaji Industries Ltd

Balaji Industries Ltd (BIL) was incorporated as a Private Limited Company on 06th September, 2020 bearing Incorporation No.: C-163108/2020. The Authorized Share Capital of the Company is BDT 10,000,000 (One Crore) divided into 100,000.00 (One Lakh) Ordinary Shares of BDT 100.00 (One Hundred) each.

BIL has been selling paper processing, Textile, Packaging and Padding and quilting chemicals manufacturer, Importer and suppliers in Bangladesh since the last few years. Balaji Industries Ltd has a sister concern which is named A. R. Trading.

BIL exclusively collaborated on technology and drew some AAA categories multinational companies.

BIL maintains the following very strictly:

- BIL imports Raw Materials from USA/Europe/India and AAA categories Chinese companies.
- Delivery time is 2 3 Hrs time for smooth supply chain and own transport for any factory in Narayanganj area.
- High qualified engineers and skilled production team are in the production site with rich R & D for maintaining best quality.
- Giving a strong Technical team for chemicals application support for clients.
- Competitive price compared to other suppliers.
- Currently supplying around Twenty (20) paper mills in Bangladesh.

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

Incorporation Certificate: C-163108/2020

Trade License: 3605

1.3 List of Directors & Shareholding Structure of BIL

Name of Directors	Status	No. of Shares	% of Shares
Shuly Singha	Chairman	1,500	30.00%
Raghupati Sen	Managing Director	2,000	40.00%
Pashupati Sen	Director	750	15.00%
Sujan Singha	Director	750	15.00%
Total		5,000	100.00%

of Balaji Industries Ltd



1.4 About the Project

(i) Features of the Project and Its Objectives

Name of the Operation	Dala!! Industrian I.t.d
Name of the Company :	Balaji Industries Ltd
Nature of the Project :	To manufacture diffierent grade Paper Sizing Emulsion for paper manufacturing
O a service to Office a	industries.
	Brahmanbaga, Jampur, Sonargaon, Narayanganj, Bangladesh
	Ismail Bhaban (5th Floor), 48/1-A, Purana Paltan, Dhaka-1000, Bangladesh
	Private Limited
Life of The Project :	30 years
***************************************	(Paper Sizing Emulsion Manufacturing Project)
	BDT 312.52 mln
	BDT 166.86 mln
	BDT 145.67 mln
	BDT 167.92 mln
Long-Term Loan :	
Short-Term Loan :	BDT 101.97 mln
Debt-Equity Ratio	
Long-Term Loan:	
Short-Term Loan :	70.00:30.00
Loan Repayment	
Equal Quarterly Instalment:	
Equal Monthly Instalment:	BDT 1.05 mln
Attainable Production Capacity	
Daily:	50,000 kg
	1,250,000 kg
Yearly:	15,000,000 kg
	BDT 73.00
Basic Raw Materials Cost/kg	
AKD Wax:	BDT 215.00
Defoamer:	BDT 190.00
Starch :	BDT 60.00
Fixing Agent:	BDT 170.00
Zirconium Chloride :	BDT 300.00
Optical Brightening Agent:	BDT 150.00
Retention Aid:	
Anionic Surface Sizing:	BDT 170.00
Dry Strength Resin:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
High Polymer/Emulsifier:	
Formaldehyde:	
Dispersant-N:	
Stickies Control Agent :	
Aluminium Sulphate:	
Water:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Average Sales Revenue (5 Years) :	BDT 580.80 mln
Average Net Profit (5 Years) :	BDT 42.88 mln
Key Financial Ratios	
Gross Income:	15.60%
Operating Income:	
Net Income:	
GDP Contribution :	BDT 68.43 mln
	To provide high quality paper sizing emulsion to clients across the country
objective of the project .	10 provide might quality paper sizing emaision to diffic across the country

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(ii) Project Plan

Balaji Industries Ltd (BIL) is going to start a Paper Sizing Emulsion Manufacturing Project where different grades of Paper Sizing Emulsion for paper manufacturing industries will be manufactured. AKD surface sizing emulsion (liquid) is a product used on the paper surface to enhance surface strength, water resistance, paper stiffness and Printability.

Product Features:

- 1. It can effectively increase the surface strength and improve the printability of paper.
- 2. It can reduce the phenomenon of dropping fiber and powder.
- 3. It could be used to adjust the sizing degree quickly and improve the water resistance of the paper
- 4. It does not have negative effect on people's health in the process of shipping, storing and using.
- 5. It can reduce the pressure of water treatment, and reduce cost of production.
- 6. Well compatibility, it is compatible with CMC, PVA, starch and so on.
- 7. Curing speed is high.
- 8. Suitable for all kinds of surface sizing equipment.

Product Application

It is suitable for cultural paper, writing printing paper, craft paper, paperboard, fruit bag paper and wrapping paper and so on.

Product Essential details

Classification : Paper Sizing Emulsion

Other Names : AKD
Purity : 15%-22%
Type : Adsorbent

Adsorbent Variety : Polymer AKD Neutral Sizing Agent

Usage : Coating Auxiliary Agents, Paper Chemicals, Surfactants

PH : 3.0 ± 1 Solid content % \geq : 15%-22%
Dynamic viscosity : <50 mPa.s
Solubility : Easy in Water
Appearance : Milky White Liquid

Application : Paper Chemicals/Paper Internal Sizing and Surface Sizing

The attainable production capacity will be 50,000 kg per day, 1,250,000 kg per month and 15,000,000 kg per year.

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The detailed production matrix has been illustrated below:

Type of Products	Purity	Adsorbent Variety	Tota	l Production Ca	pacity/ Per day	10 hours /KG
		variety	Unit	Daily	Monthly	Yearly
Paper Sizing Emulsion	15%-22%	Polymer AKD Neutral Sizing Agent	KG	50,000	1,250,000	15,000,000
	Grand Total			50,000	1,250,000	15,000,000

The project will be located at Brahmanbaga, Jampur, Sonargaon, Narayanganj, Bangladesh where total land size of this project is 51.00 decimals where 29.00 decimals is own land and 22.00 decimals land is leased from the Government. In this project, 16,000 sft civil constructions will be constructed.

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1.5 Capacity Utilization Plan of the Project

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

Capacity Utilization	
1st Year	40.00%
2nd Year	50.00%
3rd Year	55.00%
4th Year	60.00%
5th Year	65.00%
6th Year	70.00%
7th Year	75.00%
8th Year	80.00%
9th Year	85.00%
10th Year	90.00%

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1.6 Estimated Project Cost

For this project, the total cost has been estimated BDT 312.52 million including long-term & short-term investment. The summary of the project cost has illustrated below:

Balaji Industries Ltd

(Paper Sizing Emulsion Manufacturing Project)
Estimated Project Cost

Fig in Tk. '000'

SL#	Particulars		Cost	
SL#	Farticulars	Import	Local	Total
	Land (Total 29 Decimals owned land where per decimals cost has			
01	been estimated BDT 17,50,000.00. In addition, 22 decimals land is	-	50,750	50,750
	leased land from Govt on yearly rental basis.)			
02	Land Development Cost		10,000	10,000
03	Project Shed and Building		36,800	36,800
	Others Civils Construction(Boundary Wall, Security House and Guest			
04	House, Main Road and Internal Road, Sewerage and Drainage Line		8,950	8,950
	set up and Rain Water Harvesting Plant)			
05	Machinery and Equipment(Imported)	5,500		5,500
06	Import Duty, Customs, VAT and Insurance(4.5%)		248	248
07	Machinery and Equipment(Local)		25,000	25,000
08	Sub station (275 KVA) with Electrical wiring and Goods		5,200	5,200
09	Diesel Generator(200 KVA)		1,800	1,800
10	Fire Fighting Equipment, Fire Door , Fire Alarm and Security Devices		2,500	2,500
11	Vehicle (One (01) 5-MT Pick Up Van)		4,200	4,200
12	Security Deposit and Advance for Utility		2,000	2,000
13	Office Decoration, Furniture-fixture & Office Equipment		2,500	2,500
14	Machinery erection & installation		2,500	2,500
15	Preliminary expenses & Consultancy fees	-	1,000	1,000
16	Contingency for Civil Construction- 5%		448	448
17	Contingency for Machinery -5%	275	1,250	1,525
	TOTAL FIXED COST EXCEPT IDCP	5,775	155,145	160,920
15	Working Capital Requirement			145,666
16	IDCP (12 months Grace Period with 9% rate of Interest)			5,936
	TOTAL PROJECT COST			312,522

Means of Finance

Sponsor's Equity	59.01%	94,963
Long Term Loan	40.99%	65,958
Interest During Construction Period(IDCP)		5,936
Working Capital , Equity	30.00%	43,700
Working Capital , Short Term Loan	70.00%	101,966
TOTAL		312,522

In this project, total fixed investment has been estimated BDT 166.86 million including IDCP which would be considered as long-term investment and total variable investment have been estimated BDT 145.67 million which would be considered as short-term investment/working capital.

This working capital includes funded facilities which is LC Facilities and CC Hypo/OD. The debt-equity ratio and fixed and variable costs of this project has been illustrated in the beside table.

Total Project Cost : BDT 312.52 mln

Fixed Cost : BDT 166.86 mln Variable Cost : BDT 145.67 mln

Debt-Equity Ratio

For Long-Term Loan : 40.99 : 59.01 For Short-Term Loan: 70.00 : 30.00

of Balaji Industries Ltd



Balaii Industries Ltd

(Paper Sizing Emulsion Manufacturing Project)

Debt-Equity Ratio

Fig in Tk. '000'

		Total Project	Contribution	ution		Debt			Equity	
# IS	Particulars	Cost	Financial Institutions	Equity	Imported	Local	Total	Imported	Local	Total
	Land (Total 29 Decimals owned land where per decimals cost has									
01	been estimated BDT 17,50,000.00. In addition, 22 decimals land	50,750	%0	100%		1	ı		50,750	50,750
	is leased land from Govt on yearly rental basis.)									
02	Land Development Cost	10,000	%0	100%		1	1		10,000	10,000
03	Project Shed and Building	36,800	%02	30%		25,760	25,760		11,040	11,040
	Others Civils Construction(Boundary Wall, Security House and									
04	Guest House, Main Road and Internal Road, Sewerage and	8,950	%02	30%		6,265	6,265		2,685	2,685
	Drainage Line set up and Rain Water Harvesting Plant)									
02	Machinery and Equipment(Imported)	5,500	95%	2%	5,225		5,225	275	-	275
90	Import Duty, Customs, VAT and Insurance(4.5%)	248	100%	%0		248	248		-	-
07	Machinery and Equipment(Local)	25,000	40%	30%		17,500	17,500		7,500	7,500
08	Sub station (275 KVA) with Electrical wiring and Goods	5,200	80%	20%		4,160	4,160		1,040	1,040
60	Diesel Generator(200 KVA)	1,800	80%	20%		1,440	1,440		360	360
10	Fire Fighting Equipment, Fire Door , Fire Alarm and Security Devices	2,500	80%	20%		2,000	2,000		200	200
11	Vehicle (One (O1) 5-MT Pick Up Van)	4,200	80%	20%		3,360	3,360		840	840
12	Security Deposit and Advance for Utility	2,000	%0	100%		1	1		2,000	2,000
13	Office Decoration, Furniture-fixture & Office Equipment	2,500	%0	100%		1	1		2,500	2,500
14	Machinery erection & installation	2,500	%0	100%		1	1		2,500	2,500
15	Preliminary expenses & Consultancy fees	1,000	%0	100%		1	1		1,000	1,000
16	Contingency for Civil Construction- 5%	448	%0	100%		-	-		448	448
17	Contingency for Machinery -5%	1,525	%0	100%		1	1		1,525	1,525
	Total	160,920			5,225	60,733	65,958	275	94,688	94,963
	Debt -Equity Ratio (%)						40.99%			59.01%

Long-Term Finance

In this project, BIL will finance BDT 94.96 (59.01% of Project Cost) million as capital investment which will be considered as sponsors equity & BIL is expecting investment from financial institutions amounted to BDT 65.96 mln which is 40.99% as long-term finance which has been illustrated in above

Short-Term Finance

For smooth operation of this project, total working capital requirement has been estimated BDT 145.67 million including funded and non-funded facilities for utilizing the production capacity 40% in the first year. Out of total working capital requirement in first year, BIL is expecting BDT 101.97 mln as funded and non-funded facilities. The details have been illustrated in the following page no.-10

1.7 Long-Term Finance Requirement

of Balaji Industries Ltd



1.8 Working Capital Requirement

Balaji Industries Ltd

(Paper Sizing Emulsion Manufacturing Project)

Assessment of Working Capital

ig, in Taka '000'

						Fig. in Taka '000'
Particulars	Tied up Period	End of 1st Year	End of 2nd Year	End of 3rd Year	End of 4th Year	End of 5th Year
Capacity Utilization		40%	50%	55%	60%	65%
Current Operating Assets						
Basic Chemicals and Auxiliaries						
Basic Raw Materials, Chemicals and	120 days /4 months	139.826	174,782	192.261	209.739	227.217
Auxiliaries Cost	120 days / 4 months	139,620	174,702			
Total Basic Chemicals and						
Auxiliaries and Packing Cost		139,826	174,782	192,261	209,739	227,217
Closing Stock/Inventory						
Finished Goods	15 days	18,156	23,043	25,320	27,586	29,854
Work in Process	7 days	8,157	9,103	10,014	10,924	11,834
Advance Salary and Wages	90 days/ 3 months	4,826	5,049	5,290	5,543	5,675
Accounts Receivables	30 days/ 1 month	16,256	26,943	32,895	39,177	46,001
Factory and Admin Overhead	00 -1 / 2	F 400	10.050	44.554	45.704	47.000
Expenses	90 days/ 3 months	5,183	13,050	14,551	15,794	17,036
Total Current Operating Assets		192,404	251,971	280,332	308,763	337,618
Current Operating Liabilities		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		***************************************		
Accounts Payable	15 days on Raw	43.696	43.696	43.696	43.696	43.696
	Materials Cost					
	30 days on production					
Accrued Expenses	overhead and Admin	1,543	3,884	4,331	4,701	5,070
	Expenses					
Other Accrued Liabilities	LS	1,500	1,800	2,160	2,592	3,110
Total Current Operating Liabilitie	S	46,738	49,380	50,186	50,988	51,876
Net Working Capital		145,666	202,591	230,145	257,775	285,741
Walde a Oarlia Barria						
Working Capital Requirment as		1st Year	2nd Year	3rd Year	4th Year	5th Year
per year wise	%	404.655	444.5.1	404 :55	400 412	000 212
Short Term Loan from Banks	70.00%	101,966	141,814	161,102	180,442	200,019
Equity Contribution	30.00%	43,700	60,777	69,044	77,332	85,722
Tota	100.00%	145,666	202,591	230,145	257,775	285,741

For this project, BIL has assessed the working capital requirement amounted to BDT 145.67 mln as funded and nonfunded facilities by utilizing 40% average capacity in the first year in which BIL requires 101.97 mln as funded and nonfunded facilities from banks/financial institutions.

The working capital facilities will include LC 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 : BDT 101.97 mln

Non-Funded

LC Facilities : BDT 80.00 mln

Funded

CC Hypo/OD : BDT 21.97 mln

of Balaji Industries Ltd



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:

Balaji Industries Ltd									
	•								
V 1	er Sizing Emulsio		J ,						
	Projected Inc	ome State	ment						
					Fig. in Taka '000'				
Particulars	1st Year	2nd Year	3rd Year	4th Year	5th Year				
Sales	406,391	538,860	598,097	652,952	707,704				
Cost of Goods Sold	344,970	455,966	504,131	549,457	594,818				
Gross Income	61,421	82,895	93,966	103,495	112,886				
Administrative & Marketing Expenses	17,612	20,926	22,663	24,323	25,563				
Operating Income	43,809	61,968	71,303	79,172	87,323				
Other Income / Expenses									
Return on Investment	-	-	-	-	-				
Net Income Before Interest & Taxes	43,809	61,968	71,303	79,172	87,323				
Financial Expenses	8,133	10,117	10,096	9,911	9,562				
Net Income Before Taxes	35,676	51,852	61,207	69,261	77,762				
Provision for VAT and Tax (27.5%)	9,811	14,259	16,832	19,047	21,384				
Net Income after Tax	25,865	37,592	44,375	50,214	56,377				

Appropriation									
Retained Earnings at beginning of the period	-	18,106	44,420	75,483	110,633				
Net Income During The Period	25,865	37,592	44,375	50,214	56,377				
Cash Dividend declared(20% each year)	5,173	7,518	8,875	10,043	11,275				
Transfer to General Reserve(10% each year)	2,587	3,759	4,438	5,021	5,638				
Retained Earnings at End of the period	18,106	44,420	75,483	110,633	150,097				
Ratios:									
Gross Income to sales	15.11%	15.38%	15.71%	15.85%	15.95%				
Operating Income to sales	10.78%	11.50%	11.92%	12.13%	12.34%				
Net Income after Tax to sales	6.36%	6.98%	7.42%	7.69%	7.97%				
Debt Service Coverage ratio	2.52	2.84	3.03	3.16	3.31				

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.

of Balaji Industries Ltd



(ii) Projected Cash Flow Statement

· · ·	•		cturing Proje	ct)	Fig.	in Taka '000'
Particulars	0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year
A. Cash Flows from Operating Activities						
Net Income after Tax		25,865	37,592	44,375	50,214	56,377
Add: Non cash Expenses						
Depreciation & Amortization		10,414	10,414	10,414	10,414	10,414
Increase in Working Capital		(145,666)	(56,925)	(27,554)	(27,629)	(27,967)
Net Cash Flows from operating Activities	-	(109,386)	(8,919)	27,235	32,999	38,825
B. Cash Flow from Investing Activities						
Acquisition of Fixed assets	(166,856)	-	-	-	-	-
Investment in FDR	-					
Net Cash Flows from Investing Activities	(166,856)	-	-	-	-	-
C. Cash Flows From Financing Activities						
Shareholders Equity	94,963					
Shareholders Equity-Working Capital		43,700	17,078	8,266	8,289	8,390
Long Term Loan received from Bank (Including IDCP)	71,894					
Short Term Loan (Working Capital)		101,966	39,848	19,288	19,340	19,577
Re-payment of Long Term Loan			(9,482)	(10,365)	(11,329)	(12,384)
Dividend paid		(5,173)	(7,518)	(8,875)	(10,043)	(11,275)
Net Cash Flows from Financing Activities	166,856	140,493	39,925	8,315	6,257	4,307
Increase / Decrese of Cash & Cash Equivalent during the period	-	31,106	31,006	35,550	39,256	43,132
Cash & Cash Equivalent at the beginning of the period	-	-	31,106	62,113	97,662	136,919
Cash & Cash Equivalent at the End of the period	-	31,106	62,113	97,662	136,919	180,051

BIL 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:

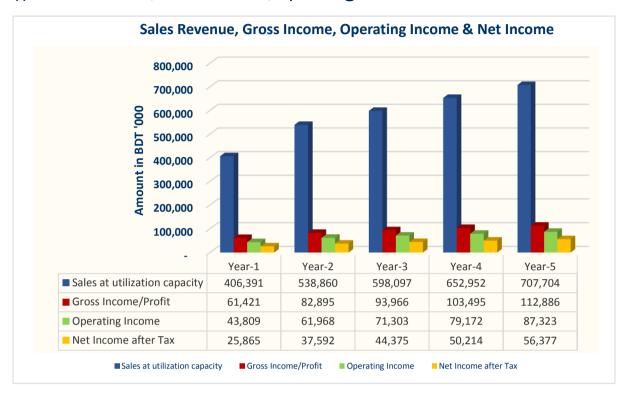
Particulars Particulars	1st Year	2nd Year	3rd Year	4th Year	5th Year
Total Debt Payment Obligation(Yearly)	17,615	20,482	21,426	22,295	23,099
Monthly Debt Obligation(Interest plus Principals)	1,468	1,707	1,785	1,858	1,925

of Balaji Industries Ltd

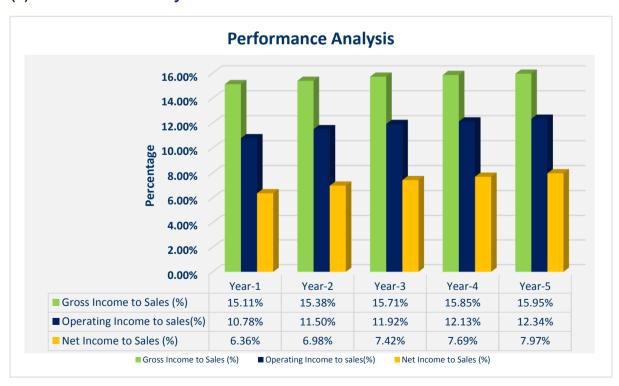


1.10 Projected Financial Performance of the Project

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



(ii) Performance Analysis



of Balaji Industries Ltd



(iii) Summary of Projected Financials

Projected Financial Information

i rojected i manciai imormation							
	Fig. in Taka '000'						
Particulars	1st Year	2nd Year	3rd Year	4th Year	5th Year		
Sales Revenue	406,391	538,860	598,097	652,952	707,704		
Cost of Goods Sold	344,970	455,966	504,131	549,457	594,818		
Gross Income	61,421	82,895	93,966	103,495	112,886		
Operating Expenses	17,612	20,926	22,663	24,323	25,563		
Opereating Income	43,809	61,968	71,303	79,172	87,323		
Net Income Before Tax	35,676	51,852	61,207	69,261	77,762		
Net Income After Tax	25,865	37,592	44,375	50,214	56,377		
Earnings Per Share (EPS)	259	376	444	502	564		
Total Assets	379,952	460,111	513,607	570,880	632,453		
Shareholders' Equity	159,354	206,506	250,272	298,732	352,224		
No. of Ordinary Shares	100,000	100,000	100,000	100,000	100,000		
Face Value of the Shares	100	100	100	100	100		
Net Asset Value (NAV)	1,594	2,065	2,503	2,987	3,522		
Projected Key Financials							
Particulars	1st Year	2nd Year	3rd Year	4th Year	5th Year		
Gross Income To Sales (%)	15.11%	15.38%	15.71%	15.85%	15.95%		
Operating Income To Sales (%)	10.78%	11.50%	11.92%	12.13%	12.34%		
Net Income To Sales (%)	6.36%	6.98%	7.42%	7.69%	7.97%		
Debt Service Coverage Ratio (Times)	2.52	2.84	3.03	3.16	3.31		
Return on investment (ROI)	8.95%	10.37%	10.61%	10.53%	10.43%		
Return on Equity (ROE)	16.23%	18.20%	17.73%	16.81%	16.01%		
Break Even % on Utilization capacity	39.57%	32.28%	29.09%	26.94%	24.97%		
Break Even % on Attainable capacity	15.83%	16.14%	16.00%	16.17%	16.23%		
Payback Period	3.46						
Discounted Payback Period	4.18						
Internal Rate of Return (IRR)	32.15%						
Net Present Value (NPV) (Fig in BDT '000)	279317.57						

of Balaji Industries Ltd



(iv) Projected Key Financials (Five Years Average)

Key Financials

(Five Years Average)

Yearly Turnover BDT 580.80 mln

Net Profit Target

BDT 42.88 mln

Gross Profit (GP) : 15.60% Operating Profit (OP) : 11.73% Net Profit (NI) : 7.28% **IRR** : 32.15% ROI : 10.18% ROE : 17.00% Payback period : 3.46 years Discounted Payback Period : 4.18 years Debt Service Coverage Ratio : 2.97 Times

: 30.57% Break Even (BEP)

: BDT 279.32 mln

(v) Sensitivity Analysis (Five Years Average)

Particulars	If Rate of Interest is 9% and Other things remain constant	Rate of Interest is 9% and			
		If 5% decrease of sales price	If 5% increase of Raw Materials Cost	If 5% decrease of sales price and 5% increase of Raw Materials Cost	
Sales Revenue	580,801	551,761	580,801	551,761	
Net Income(BDT '000)	42,885	21,831	27,115	6,061	
Gross Profit to Sales	15.60%	11.16%	11.84%	7.20%	
Operating Income to sales	11.73%	7.09%	7.97%	3.13%	
Net Income to Sales	7.28%	3.85%	4.56%	0.98%	
Debt Service Coverage Ratio(Times)	2.97	1.98	2.22	1.23	
Internal Rate of Return (IRR)	32.15%	19.80%	23.21%	9.42%	
Return on Investment (ROI)	10.18%	6.07%	7.09%	2.98%	
Return on Equity (ROE)	17.00%	8.48%	10.58%	2.07%	
Payback Period (PB)	3.46	5.13	4.57	8.13	
Discounted Payback Period (DPB)	4.18	6.70	5.80	9.92	
Break Even % (Utilization Capacity)	30.57%	47.42%	43.17%	87.18%	
Net Present Value (NPV) (BDT in mln)	279	120.13	163.49	4.31	

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1.11 Investment Proposal for This Project to Banks/Financial Institutions

Balaji Industries Ltd is inviting financial institutions for investing this commercially viable project for implementation of this project with the below features:

: BDT 1.44 mln

Total Investment Requirement : BDT 167.92 mln

A. For Long-Term Financing
Project Shed and Building
Others Civils Construction
Import Duty, Customs, VAT and Insurance
Machinery and Equipment (Imported)
Machinery and Equipment (Local)
Substation with Electrical wiring & Goods
: BDT 65.96 mln
: BDT 25.76 mln
: BDT 0.25 mln
: BDT 5.23 mln
: BDT 17.50 mln

Fire Fighting Equipment, Fire Door,

Diesel Generator

Fire Alarm and Security Devices : BDT 2.00 mln Vehicles : BDT 3.36 mln

B. For Short-Term Loan/Working Capital : BDT 101.97 mln

1.LC facilities (Sight/DP/UPAS) : BDT 80.00 mln

i. Acceptance (ABP) [Inner of

LC Sight/DP/UPAS] : BDT 80.00 mln

ii. UPAS discounted through OBU,

LTR [inner of L/C (Sight/DP/UPAS) : BDT 80.00 mln iii. LTR [inner of L/C(Sight/DP/UPAS) : BDT 60.00 ml

iv. Time Loan-1 (Duty/VAT and local procurement of raw materials)

[inner of LTR] : BDT 20.00 mln 2.CC Hypo/Overdraft/Demand Loan : BDT 21.97 mln

The above finance will be for:

1.Tenure : 6 years for long term loan

2. Short Term loan : Revolving basis

3. Moratorium Period : 12 months for long term loan

4. Proposed Rate of interest : 9.00%

5.Equal Monthly Instalments (EMI) : BDT 0.94 mln 6.Equal Quarterly Instalments (EQI) : BDT 3.50 mln

7. Debt-Equity Ratio

For Long Term : 40.99 : 59.01 For short Term : 70.00 : 30.00

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1.12 Use of Fund

Long-Term Financing: Project Loan/Term Loan would be utilized for Project Shed and Building, Others Civils Construction, Machinery Imported & Local Machinery and Equipment, Import Duty, Customs, VAT and Insurance, Substation with Electrical wiring and Goods, Diesel Generator, Fire Fighting Equipment, Fire Door, Fire Alarm and Security Devices and Vehicles 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 BDT 68.43 mln. In addition, 57 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.

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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 Paper Sizing Emulsion 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 3.46 years, Discounted Payback period is 4.18 years and Internal Rate of Return is 32.15% 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 57 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 Paper Sizing Emulsion 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.



Feasibility Report and BUSINESS PLAN of Balaji Industries Ltd







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