



Detailed Project Report

Gorilla Glass



By



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1. OVERVIEW OF THE JLG MEMBERS

Name of the JLG:

Number of the members.

Name of Gram Panchayat/Taluk:

Name of the District:

Account details of JLG:

Details of JLG members with Hierarchy;

1.

2.

3.

4.

5.

6.

KYC:

Aadhar/PAN/Photo:



Gorilla Glass is a type of chemically strengthened glass that is used in a variety of electronic devices, such as smartphones, tablets, and laptops. It is designed to be tough, scratch-resistant, and durable, while still maintaining optical clarity. Gorilla Glass is made by a special process in which a sheet of glass is dipped into a bath of molten salt. The process causes ions from the salt to diffuse into the surface of the glass, creating a compressive stress layer that makes the glass stronger and more durable.

2. OBJECTIVES OF SVSY

Under Yuva Niti 2022, the new Swami Vivekananda Yuva Shakti Yojana is proposed on the following grounds to achieve holistic development of 2.1 crore youth of the state and to bring about constructive social change by the youth in keeping with the India@2047 vision of the Hon'ble Prime Minister.

The current scenario of the state on various parameters is as follows:

- i. Political Representation:** Out of total 1,01,308 members in rural local bodies, 12,411 (12.25 per cent) youths and 360 youths (5.36 per cent) out of 6713 municipal councillors are political representatives.
- ii. Education:** Out of a total of 2.1 crore youth, 21.55 lakh (10.37 per cent) students are in high school, 11.75 lakh (5.65 per cent), 6.45 lakh (3.10 per cent) in general degree colleges, 1.51 lakh (2.72 per cent), 1.11 lakh in polytechnics. (0.53 per cent),



0.74 lakh (0.36 per cent) The total number of students studying in medical courses is 43.12 lakh, which is per cent of the total youth. 21 percent will be. Remaining 157.88 lakh youth have below 10th standard education.

- iii. **Employment:** According to the National Skill Development Corporation report, out of the total 2.1 crore youth in the state, 82 lakh (41 per cent) youth are in the labour force. As the remaining 119 lakh youth (59 per cent) are not in the professional labour force, they need to be given skill training to make them self-reliant.
- iv. **Skill Development:** Out of the total 82 lakh youth in the workforce, 16 lakh youth (20 per cent) have received skill vocational training. The remaining 66 lakh (80 per cent) youth need to be given skill development training. Out of this, only one lakh youth are being trained by the NLRM department every year. Therefore 65 lakh untrained rural youth need skill training. To achieve this every school needs to provide vocational education from class 6 onwards.
- v. **Internship:** According to the 6th Economic Census, there are a total of 28.80 lakh enterprises in the state, out of which 78,022 enterprises employ more than 8 people. About 30 lakh youths can be trained in skills by undertaking the internship program for a period of three months in local industries related to agriculture and agri-based/MSME/self-employment/service sector.
- vi. **Migration Control:** Rural people have migrated from various districts to urban areas for job opportunities, of which 40 lakh (20 percent) youth are in Bangalore



city. Therefore, there is a need to provide more employment opportunities at the village level.

- vii. Consolidation of programs for rural employment:** In total there are 27,395 revenue villages in the state and it is proposed to form Swami Vivekananda Self Help Groups, one in each village, on the model of Women's Self-Help Groups to provide self-employment to the unorganized workers in these. There are about 15 to 20 youth in each group, and 5.50 lakh youth in 27,395 self-help groups have received Rs. 1.5 lakh to provide margin money estimated at Rs. 410 crores will be required.
- viii. Bank Linked Schemes:** Coordination and inclusion of Yuva Shakti schemes with schemes linked to 25 banks. There are 35000 shelves of projects under the Mudra loan scheme, and steps will be taken to select the financial activities of the self-help societies based on these models.
- ix. Training:** Skill development training will be imparted to the youth under the National Entrepreneurship Mission under the 18 programs being implemented by various departments under this scheme. Training for agriculture and other activities will be provided through the Rural Development Self Employment Training Institute (RUDSETI).
- x. Formation of State Level Committee:** It is proposed to constitute a committee under the chairmanship of the Minister of Youth Empowerment and Sports at the State level for implementation and monitoring of the programme. RDPR,



Commerce and Industry, Labour, Skill Development and Bank representatives will be members of this committee.

- xi. District Level Committee:** It is proposed to constitute a District Level Committee under the Chairmanship of the Chief Executive Officer of the Zilla Panchayat for the implementation and supervision of the program at the district level. The members of this committee are the officers of Rural Development and Panchayat Raj, Commerce and Industry, Labour, Skill Development Departments and District Lead Bank Managers.
- xii. Village level stewardship:** The village level stewardship of this program will be handled by Rural Development and Panchayat Raj Departments and Youth Empowerment and Sports Departments.

3. ABOUT VKF

VKF is a Think Tank of Community Change Champions who are from various walks of Social Spaces with diverse backgrounds and specialists from their domains.

VKF is a platform that enables as a think tank to evolve an aggregation of the social impact service providers and entrepreneurs for bringing about a transformational movement of social Change that is measurable on the lines of the Strategic Sustainable Development Goals (SSDG) of United Nation (UN).

VKF's is primarily focused on the development of Karnataka state in collaboration and co-creation initiatives.



VKF is a platform that enables as a think tank to evolve an aggregation of the social impact service providers and entrepreneurs for bringing about a transformational movement of Social Change that is measurable on the lines of the Strategic Development Goal of UN.

VKF's strong focus is on enhancing the rural mass entrepreneurship development clubbed with rural livelihood options. In this direction, VKF team is working with the rural livelihood SHGs members and handholding them to elevate themselves to newer socio-economic status and uplifting the whole geography of the cluster by setting up of CFCs.

VKF's experience spans across conceptualizing cluster mapping, conducting baseline surveys, awareness creation, trust building activities, capacity building, design thinking activities etc., to enhance capabilities of the artisans and livelihood SHGs in the clusters.

VKF also indulges in facilitating Common Facility Centres, Preparation of DPR, Govt. liaising, market linkage activities, brand awareness, branding initiatives, value addition of the products produced by clusters etc. In this, regards we have collaborated and working with MSME, ESTC, IDEMI, Tribes India, NRLM and WCD to support rural masses in terms upgrading their livelihood opportunities.



4. NAME OF PRODUCT AND TECHNOLOGY

Mobile Gorilla Glass

Mobile Gorilla Glass is a type of chemically strengthened glass that is designed to be highly durable and resistant to scratches and impacts, making it a popular choice for the screens of smartphones and other mobile devices. It is manufactured by Corning Incorporated and is currently in its 7th generation, with each iteration offering improved features such as better drop resistance and touch sensitivity.

Glass is made by a special process that involves ion-exchange, which compresses the surface of the glass and creates a layer of high tension. This makes the glass much stronger and more durable than regular glass, while still maintaining good optical clarity and touch sensitivity.

5. DELIVERABLES AND MARKET OF THE PRODUCT

The primary deliverable of Gorilla Glass is as a highly durable, scratch-resistant, and damage-resistant cover glass for electronic devices, including smartphones, tablets, laptops, wearables, and other applications.

The market for Gorilla Glass is significant, with Corning, the company that produces Gorilla Glass, reporting that its products are used by over 50 major brands and in over



8 billion devices worldwide. The market for cover glass is highly competitive, with other players such as Asahi Glass, Schott AG, and NEG, but Gorilla Glass remains one of the most widely used and recognized brands in the industry due to its high performance, optical clarity, and touch sensitivity. Additionally, Corning continues to invest in research and development to further enhance the capabilities of Gorilla Glass, exploring new applications for the material in fields such as automotive and architectural design.

Project Assumptions: This model DPR for Gorilla is basically on certain assumptions that may vary with capacity, location, raw materials availability etc. An entrepreneur can use this model DPR format and modify as per requirement and suitability. The assumptions made in preparation of this particular DPR are given in Table. Therefore, land and civil infrastructures are assumed as already available with the entrepreneur.

Table: Detailed Project Assumptions		
Parameter	Value	
Assumed Capacity of Gorilla Glass Making Unit:	300	
Utilization of capacity:	Year 1	60%
	Year 2	65%
	Year 3	70%
	Year 4	75%



	Year 5	80%
Working days per year:	300 days	
Working hours per day:	8-10 hours	
Average price of raw material:	Rs 30/kg	
Average sale price of product	Rs.50/piece	

Machineries





Market Linkage

- ❖ Electronic Shop
- ❖ Mobile Shops

- ❖ Supermarkets and Departmental Stores
- ❖ Ecommerce

6. INVESTMENT IN PLANT & MACHINERY:

Spnrs 200V Mobile Tempered Glass Machine

Indra Park Main Road, Palam Colony, Delhi

Price: 4 lakhs

Capacity: 10000 Screen Guard in a Day

Sl. No.	Details	Cost in Rs
1	Machine cost	85,000
2	Rental Deposit for the Shed in 2 places	40,000
3	Initial Purchase	1,00,000
4	Furniture and Fittings	40,000
5	Machinery	2,35,000
	Total	4,55,000

7. ROLE OF EACH OF THE JLG MEMBERS



How JLG will participate:

- 2 persons will be used to procurement of raw materials
- 4 persons for production
- 3 people for the logistics & sales
- 1person on training and monitoring process

8. SOFT INTERVENTION

The following are the soft interventions to be arranged:

- Awareness on financial inclusion will help in getting the assistance from Government and other sources
- Export promotional orientation for the JLG members.
- Awareness/ training programme on product quality, handling practices.
- Capacity Building activity
- Trust Building activities
- Programmes on technical skill enhancement to unit owners.
- Programmes on Business and entrepreneurship skill enhancement to unit owners
- Mass entrepreneurship development program in the JLG eco system.

9. ESTIMATED COST OF THE PROJECT AND THE IMPLEMENTATION SCHEDULE



The proposed cost of the project is as follows:

Sl. No.	Details	Cost in Rs.	Percentage
1	Bank Loan	4,05,000	90%
2	JLG contribution	40,500	10%
3	Total	4,50,000	100%

Sl. No.	Details	Cost in Rs.
1	Machine Cost	4,00,000
2	Furniture	30,000
3	Working capital (Shed deposit, electric connection deposit, Miscellaneous and preoperative expenses)	70,000
	TOTAL	5,00,000



10. LAND/SHED STATUS:

The JLG has already identified the shed required for the project within the project area.

11. SWOT ANALYSIS OF THE PROJECT

I. Strength

- Gorilla Glass is a well-known and trusted brand in the smartphone and consumer electronics industry.
- Karnataka has a strong technology and manufacturing base, which can support the production and distribution of Gorilla Glass.
- Gorilla Glass has several desirable properties, including scratch resistance and durability, which can make it attractive to consumers.

II. Weakness

- Gorilla Glass is a well-known and trusted brand in the smartphone and consumer electronics industry.
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III. Opportunities

- Gorilla Glass can expand its market share by partnering with local companies and manufacturers in Karnataka, which can help to lower production and distribution costs.
- The growing demand for smartphones and other consumer electronics can create new opportunities for Gorilla Glass to expand its product lines and reach new customers.

IV. Threats

- The development of new technologies and materials that can provide better properties than Gorilla Glass can make it less competitive in the long term.
- The COVID-19 pandemic and other global economic factors can create uncertainty in the market and affect demand for Gorilla Glass and other consumer electronics products.

12. YOUTH EMPOWERMENT IMPACT OF THE PROJECT ON ECOSYSTEM

We have surplus youths in the state, graduate, undergraduate etc. supporting them to create self-employment will motivate to become entrepreneurs, they will live independent life.



Entrepreneurship will greatly impact the lifestyle of the youths, if businesses work along with their involvement of all the members towards creating awareness and promoting positive impacts on others.

13. THE END PRODUCTS PRODUCED FROM THE MACHINE





14. FINANCIALS

CASH FLOW STATEMENT

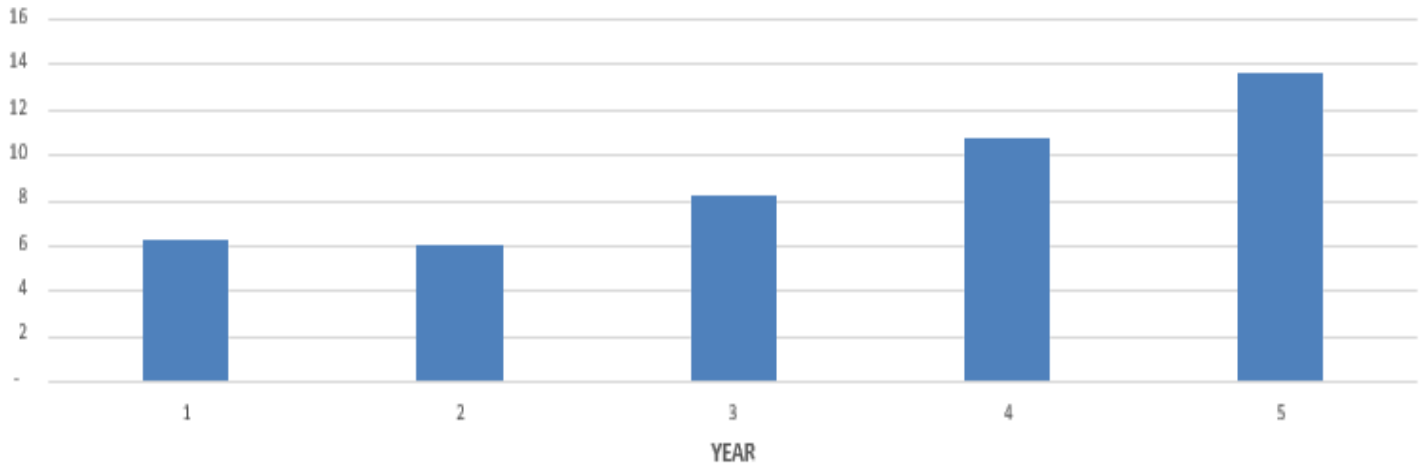
Particulars	Year				
	Year 1	Year 2	Year 3	Year 4	Year 5
<u>REVENUE FROM SALE OF GORILLA GLASS</u>					
No. of working days in a Year	300	300	300	300	300
Less : Days for off Season	-	-	-	-	-
No. of Machine Running days in a Year	300	300	300	300	300
Capacity of the machine in Pcs per day	300	300	300	300	300
Production in KGs	100%	100%	100%	100%	100%
Utilisation of the Capacity (%)	60%	65%	70%	75%	80%
Production during the year (in KGs)	54,000	58,500	63,000	67,500	72,000
Rate per Piece	50	55	61	67	73
Gross Revenue earned per annum - A	27,00,000	32,17,500	38,11,500	44,92,125	52,70,760
<u>COST OF RAW MATERIALS</u>					
Consumption of Raw Materials	54,000	58,500	63,000	67,500	72,000
Rate per KG	30	33	36	40	44
Total Cost of Raw Material per annum - B	16,20,000	19,30,500	22,86,900	26,95,275	31,62,456
<u>EXPENDITURE</u>					
Salaries and Wages	6,24,000	6,86,400	7,55,040	8,30,544	9,13,598
Electricity Charges	48,000	52,800	58,080	63,888	70,277
Transportation and Travelling	36,000	39,600	43,560	47,916	52,708
Rent	84,000	92,400	1,01,640	1,11,804	1,22,984
Packaging and Promotion Expenses	36,000	39,600	43,560	47,916	52,708
Miscellaneous Expense	25,000	27,500	30,250	33,275	36,603
Total Expenditure - C	8,53,000	9,38,300	10,32,130	11,35,343	12,48,877
Net Profit before Interest /Cash Flow (A-B-C)	2,27,000	3,48,700	4,92,470	6,61,507	8,59,427



PROJECTED TERM LOAN DSCR STATEMENT

	Year 1	Year 2	Year 3	Year 4	Year 5
	Projected	Projected	Projected	Projected	Projected
Profit available to service the debt	2,27,000	3,48,700	4,92,470	6,61,507	8,59,427
Loan Repayment	20,536	44,105	48,482	53,294	58,583
Interest on Term Loan	20,972	17,536	13,159	8,347	3,058
Debt to be Served	41,508	61,641	61,641	61,641	61,641
Debt Service Coverage Ratio	5	6	8	11	14
AVERAGE DSCR	9				

DEBT SERVICE COVERAGE RATIO





BREAKEVEN ANALYSIS

Investment Value Including Margin Rs. 250000

Year ended	Year 1 Projected	Year 2 Projected	Year 3 Projected	Year 4 Projected	Year 5 Projected
Cash Flow as per Statement of Income	2,27,000	3,48,700	4,92,470	6,61,507	8,59,427
Less : Interest on Loan	20,972	17,536	13,159	8,347	3,058
Less : Estimated Drawings/Personal Expenses	1,13,500	1,74,350	2,46,235	3,30,754	4,29,713
Net Cash Flow	92,528	1,56,814	2,33,076	3,22,406	4,26,655
Cumulative Cash Flow	92,528	2,49,341	4,82,417	8,04,823	12,31,478
Break Even Investment (in years)		2 Year and 0 Months			

DETAIL REPAYMENT SCHEDULE

Year	Quarter	Loan Installment	Principal Payment	Loan Outstanding	Interest at 9.5%	Cumulative Interest
1	1	5,344	-	2,25,000	5,344	20,972
	2	5,344	-	2,25,000	5,344	
	3	15,410	10,146	2,14,854	5,264	
	4	15,410	10,389	2,04,464	5,021	
2	1	15,410	10,638	1,93,826	4,772	17,536
	2	15,410	10,893	1,82,933	4,518	
	3	15,410	11,154	1,71,780	4,257	
	4	15,410	11,421	1,60,359	3,990	
3	1	15,410	11,694	1,48,665	3,716	13,159
	2	15,410	11,974	1,36,692	3,437	
	3	15,410	12,260	1,24,431	3,150	
	4	15,410	12,554	1,11,877	2,856	
4	1	15,410	12,854	99,023	2,556	8,347
	2	15,410	13,162	85,860	2,248	
	3	15,410	13,477	72,383	1,933	
	4	15,410	13,800	58,583	1,610	
5	1	15,410	14,130	44,453	1,280	3,058
	2	15,410	14,469	29,984	942	
	3	15,410	14,815	15,170	595	
	4	15,410	15,170	0	241	
Total		2,88,074	2,25,000		63,074	63,074



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