Detailed Project Report

Banana Fiber Mat Weaving

By

2023

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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:

Banana fiber mat weaving is a traditional craft that involves the weaving of mats using the fibers extracted from the stem of the banana plant. The process starts with the extraction of the fiber from the stem, which is then cleaned, dried, and spun into yarn. The yarn is then woven using traditional handlooms into various sizes and designs of mats. Banana fiber mats are eco-friendly, durable, and have natural anti-bacterial properties, making them ideal for use in households, restaurants, and hotels. This craft provides a source of income for many rural communities and helps preserve traditional weaving techniques while promoting sustainable practices.

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 percent) 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.

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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

Banana Fiber Mat Weaving Unit

A historic craft, mat weaving entails weaving mats from a variety of organic materials, including reeds, grasses, and straw. The preparation of the materials, such as drying and cutting them to size, is usually followed by the weaving of the

materials together using a loom or other weaving tools. The resulting mats can be utilised for a number of things, including seating, flooring, and even wall decorations. In many civilizations around the world, mat weaving has a long history and is still a significant form of artistic expression and a source of money for many localities. Mat weaving technology has evolved over time to include a range of tools and techniques that can improve the efficiency and quality of the weaving process. Traditional mat weaving tools, such as hand-held looms, continue to be used in many parts of the world, but modern advancements have also led to the development of more automated weaving equipment. These advancements include the use of computer-controlled looms, which can help to speed up the weaving process and ensure consistent quality. Additionally, new materials and weaving techniques have been developed to create mats that are more durable, weather-resistant, and versatile in their uses. Despite these technological advancements, mat weaving remains a labour-intensive craft that requires skill, patience, and attention to detail.

5. DELIVERABLES AND MARKET OF THE PRODUCT

- **Household mats:** These are used in homes as floor coverings, doormats, bathroom mats, and kitchen mats, among other applications.

- **Commercial mats:** These are used in various commercial settings, such as hotels, restaurants, offices, and retail stores, to improve safety, protect floors, and enhance the aesthetic appeal of the space.
- **Automotive mats:** These are used in cars, trucks, and other vehicles to protect the flooring from dirt, mud, and other debris.
- **Yoga and exercise mats:** These are specially designed mats used in yoga studios and fitness centers to provide a non-slip surface for exercise routines.
- **Outdoor and camping mats:** These mats are used for outdoor activities such as camping, hiking, and picnicking, and are designed to be durable and weather-resistant.
- **Artisanal and decorative mats:** These are created by skilled artisans and are used as decorative pieces for homes and businesses.
- **Industrial mats:** These are used in industrial settings such as factories, warehouses, and production facilities, to provide anti-fatigue and anti-slip surfaces, as well as to protect equipment and flooring from damage.

Project Assumptions: This model DPR for Mat Weaving Unit 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 entreprene

Table: Detailed Project Assumptions		
Parameter	Value	
Assumed Capacity of the Burfi Making Unit:	105m per day	
Utilization of capacity:	Year 1	Implementation
	Year 2	55%
	Year 3	65%
	Year 4	80%
	Year 5 ONWARDS	90%
Working days per year:	300 days	
Working hours per day:	8-10 hours	
Average price of raw material:	Rs. 60 - 75/kg	
Average sale price of product	Rs. 200 - 300/kg	

Machineries

Banana Fibre Mat Weaving Machine
Capacity: 100 sq ft/hr
Automatic grade: Automatic
Voltage: 220-240 V
South India Mat Machine Chennai, Tamil Nadu

Market Output:

VKF will hand hold them to facilitating better packing and market linkage.

Market Linkage	
❖ **Supermarkets**	❖ **Hypermarkets**
❖ **Kirana stores**	❖ **Home goods stores**
❖ **Sports stores**	❖ **Flooring stores**

6. ROLE OF EACH OF THE JLG MEMBERS

How JLG will participate:

- 2 persons will be used to procurement
- 2 persons for production
- 2 persons for the logistics & sales
- 2 persons for value addition
- 2 person for waste management

7. 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.

8. 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	45000	10%
3	**Total**	**450000**	**100%**

Sl. No.	Details	Cost in Rs.
1	Machine Cost	225000
2	Furniture	80,000
3	Working capital (Shed deposit, electric connection deposit, Miscellaneous and preoperative expenses)	1,00,000
	TOTAL	4,05,000

The proposed project implementation schedule is as follows:

Sl. No.	Project Component	Schedule
1	Shed for the project on rental basis	Identified
2	Electricity and Water facility Installation	Present
3	Arrival of Machinery	Within 1 months of Order
4	Erection of Machinery	Within 5 days of arrival
5	Commissioning	Within 2-4 days of erection
6	Commercial Usage	Within 1 months from approval

9. LAND/SHED STATUS:

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

10. SWOT ANALYSIS OF THE PROJECT

I. Strengths

- Banana fiber is a renewable resource and using it as a raw material for weaving mats will promote sustainable production practices.
- Banana fiber mats are unique products and can be marketed as eco-friendly and innovative alternatives to traditional mats made of synthetic fibers.
- The project can generate employment opportunities for people in rural areas where banana cultivation is prevalent.
- Banana fiber is easily accessible and cost-effective, which makes the production process more affordable and profitable.

II. Weaknesses

- The market for banana fiber mats may be limited, and it may be challenging to find buyers willing to pay a premium for eco-friendly products.
- The public may not be aware of the benefits of banana fiber mats, and it may require significant marketing efforts to educate potential customers about the product.
- Weaving mats from banana fiber can be a labour-intensive process, and finding skilled workers willing to work for lower wages may be challenging.

- The quality of banana fiber can vary depending on factors such as weather, soil quality, and harvesting techniques, which can affect the quality of the mats produced.

III. Opportunities

- As consumers become more environmentally conscious, there is a growing demand for sustainable and eco-friendly products, which could create a market for banana fiber mats.
- The project can be diversified by producing other products using banana fiber, such as bags, baskets, and home decor items.
- Collaboration with other industries such as fashion and interior design can create new opportunities for the product, leading to higher demand and greater market penetration.
- There may be potential to export banana fiber mats to other countries, particularly in regions where there is a high demand for eco-friendly products.

IV. Threats

- With the availability of both handmade and machine-made mats, there may be significant competition in the market.
- Economic downturns or fluctuations can impact demand for non-essential items like mats, which could negatively impact sales and revenue.
- Newer and more advanced mat weaving machines or technologies could emerge, making older machines obsolete or less competitive.

11. 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.

Ecosystem Support from Project

- **Sustainable sourcing of ingredients:** If a banana fiber making business sources its ingredients from local farmers who use sustainable agricultural practices, it can contribute to the promotion of sustainable and environmentally friendly farming. This can also help reduce the carbon footprint associated with transportation and storage of ingredients.
- **Waste reduction**: A banana fiber making business can make efforts to reduce food waste by using all parts of the ingredients it sources, such as using leftover banana fiber to make bags. In addition, it can reduce packaging waste by using biodegradable or recyclable materials for packaging.

- **Energy efficiency:** By using energy-efficient equipment and appliances in its operations, a banana making business can reduce its energy consumption and

carbon footprint. It can also consider using renewable energy sources, such as solar panels, to power its operations.

- **Supporting local communities**: By operating locally and sourcing ingredients locally, a banana fibre making business can contribute to the growth and development of the local economy. This can help to reduce the carbon footprint associated with transportation and create a more sustainable and resilient local economy.

12. THE END PRODUCTS PRODUCED FROM THE MACHINE

13. FINANCIALS

CASH FLOW STATEMENT

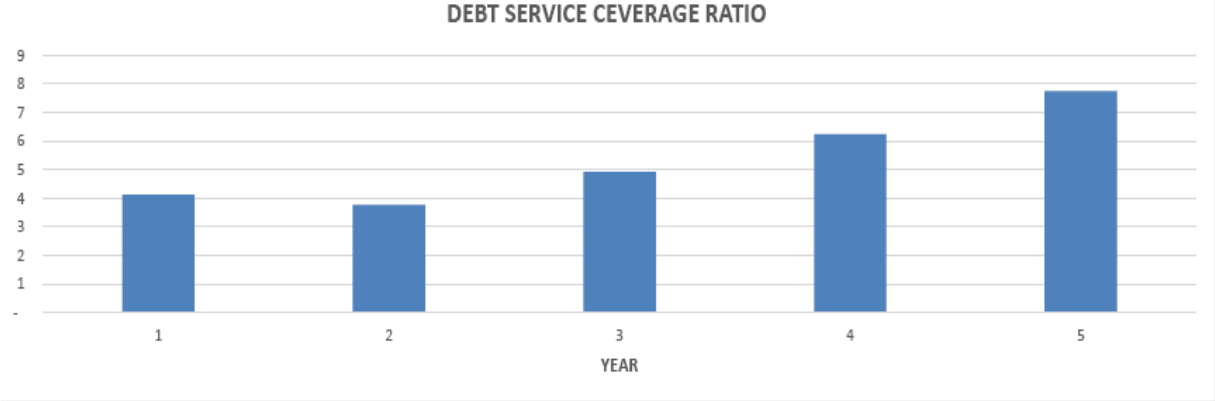
Particulars / Year	Year 1	Year 2	Year 3	Year 4	Year 5
REVENUE FROM SALE OF BANANA FIBER MATS					
No. of working days in a Year	300	300	300	300	300
Less : Days for off Season	90	90	90	90	90
No. of Machine Running days in a Year	210	210	210	210	210
Capacity of the machine in kgs per day	100	100	100	100	100
Production in KGs	100%	100%	100%	100%	100%
Utilisation of the Capacity (%)	65%	70%	75%	80%	85%
Production during the year (in KGs)	13,650	14,700	15,750	16,800	17,850
Rate per KG	150	165	182	200	220
Gross Revenue earned per annum - A	**20,47,500**	**24,25,500**	**28,58,625**	**33,54,120**	**39,20,128**
COST OF RAW MATERIALS					
Consumption of Raw Materials	13,650	14,700	15,750	16,800	17,850
Rate per KG	50	55	61	67	73
Total Cost of Raw Material per annum - B	**6,82,500**	**8,08,500**	**9,52,875**	**11,18,040**	**13,06,709**
EXPENDITURE					
Salaries and Wages	7,20,000	8,28,000	9,52,200	10,95,030	12,59,285
Electricity Charges	72,000	79,200	87,120	95,832	1,05,415
Rent	1,20,000	1,32,000	1,45,200	1,59,720	1,75,692
Transportation and Travelling	60,000	66,000	72,600	79,860	87,846
Packaging and Promotion Expenses	60,000	66,000	72,600	79,860	87,846
Miscellaneous Expense	25,000	27,500	30,250	33,275	36,603
Total Expenditure - C	**10,57,000**	**11,98,700**	**13,59,970**	**15,43,577**	**17,52,686**
Net Profit before Interest /Cash Flow (A-B-C)	**3,08,000**	**4,18,300**	**5,45,780**	**6,92,503**	**8,60,732**

DSCR STATEMENT

PROJECTED TERM LOAN DSCR STATEMENT

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	**3,08,000**	**4,18,300**	**5,45,780**	**6,92,503**	**8,60,732**
Loan Repayment	36,965	79,389	87,268	95,929	1,05,450
Interest on Term Loan	37,750	31,566	23,687	15,025	5,505
Debt to be Served	**74,715**	**1,10,954**	**1,10,954**	**1,10,954**	**1,10,954**
Debt Service Coverage Ratio	4	4	5	6	8
AVERAGE DSCR			**5**		



BREAKEVEN ANALYSIS

Investment Value Including Margin Rs. 450000

Year ended	Year 1 Projected	Year 2 Projected	Year 3 Projected	Year 4 Projected	Year 5 Projected
Cash Flow as per Statement of Income	3,08,000	4,18,300	5,45,780	6,92,503	8,60,732
Less : Interest on Loan	37,750	31,566	23,687	15,025	5,505
Less : Estimated Drawings/Personal Expenses	1,54,000	2,09,150	2,72,890	3,46,252	4,30,366
Net Cash Flow	**1,16,250**	**1,77,584**	**2,49,203**	**3,31,226**	**4,24,861**
Cumulative Cash Flow	**1,16,250**	**2,93,834**	**5,43,038**	**8,74,264**	**12,99,125**
Break Even Investment (in years)			**2 Year and 7.5 Months**		

REPAYMENT REPAYMENT

DETAIL REPAYMENT SCHEDULE

DETAIL REPAYMENT SCHEDULE

Year	Quarter	Loan Installment	Principal Payment	Loan Outstanding	Interest at 9.5%	Cumulative Interest
1	1	9,619	-	4,05,000	9,619	
	2	9,619	-	4,05,000	9,619	
	3	27,739	18,264	3,86,736	9,475	
	4	27,739	18,701	3,68,035	9,038	37,750
2	1	27,739	19,149	3,48,887	8,590	
	2	27,739	19,607	3,29,280	8,132	
	3	27,739	20,076	3,09,204	7,662	
	4	27,739	20,557	2,88,647	7,182	31,566
3	1	27,739	21,049	2,67,598	6,690	
	2	27,739	21,553	2,46,045	6,186	
	3	27,739	22,069	2,23,976	5,670	
	4	27,739	22,597	2,01,379	5,141	23,687
4	1	27,739	23,138	1,78,241	4,601	
	2	27,739	23,692	1,54,549	4,047	
	3	27,739	24,259	1,30,290	3,479	
	4	27,739	24,840	1,05,450	2,899	15,025
5	1	27,739	25,434	80,015	2,304	
	2	27,739	26,043	53,972	1,695	
	3	27,739	26,667	27,305	1,072	
	4	27,739	27,305	(0)	433	5,505
Total		**5,18,533**	**4,05,000**		**1,13,533**	**1,13,533**

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