



Setting up of a Solar Charkha Cluster.

**Yarn, Fabric & Garments
Production using Solar Charkha &
Solar Looms.**

**Solar Charkha Spinning, Weaving,
Processing and Garments**

Introduction

Khadi is handspun, hand-woven natural fiber cloth mainly made out of cotton. The cloth is woven from cotton and may also include silk, or wool, which are all spun into yarn charkha. It is a versatile fabric, cool in summer and warm in winter. In order to improve the look, khādī/khaddar is sometimes starched to give it a stiffer feel. It is widely accepted in fashion circles.



Khadi is an indigenously made fabric which is mainly known as khadi is made out of cotton but it can be silk or wool as well. All these natural staple or fibres are spun by hat-charkha or solar charkha.

Khadi fabric has it's own character, texture and slubs enhance the beauty of khadi fabric. Khadi is suitable for all kind weather of India. It has good perspiration absorbing quality so it doesn't cause body sweat odor. Western consumer taking interest in khadi fabric.



India's ministry of micro, small and medium enterprises (MSME) to promote the use of solar 'charkhas' (looms) in the moribund khadi (loom-woven fabric) cottage industry augurs well. The move will not only make khadi a zero-carbon footprint fabric by eliminating the use of electricity during production, it will also generate employment for thousands of poor artisans and bolster productivity through modern technology.

Ministry's other plans to popularize solar looms are providing employment to over 50 million women by giving them the new machines over the next 10 years. "The measure will dramatically augment khadi's share in the Indian textile industry from the present 1.4%.



Though solar charkhas have sporadically and experimentally been in use across India, this is the first concerted push by the government to introduce them on a mega scale with private and public participation. Field trials of solarised charkhas in Khanwa village of Nawada district in the eastern state of Bihar have been encouraging.

These charkhas have the potential to be a force multiplier for the economy. They can boost productivity and augment artisans' incomes. Conventional wheels hold three to eight spindles of khadi and can only produce 25 hanks of yarn in eight hours. Solar-powered spinning wheels with up to 36 spindles can crank out 100 hanks in the same time.



Benefits of Solar Charkha

- **Easy spinning, person with disability or any age or women can do spinning with household work**
- **Uniform count, strong yarn as like as mills spun yarn**
- **Flawless and constant spinning that means more production and more income to artisans.**
- **No side effects on artisan or environment.**



Yarn from a solar charkha are stronger compared to the manually operated charkha. In fact yarns of desired strength could be achieved by proper choice of the drive. Yarn are more uniform compared to a manually operated. This is because of the incorporation of a battery which helps to give uniform power even in the variable climatic conditions.

Yarns are nearly free from knots. This is because of the absence of jolts and jerks in the charkha which are there when a human being cranks it throwing more or less a significant fraction of the body weight on it Thus resulting in fewer breakage of yarn, less down-time and greater productivity.



Production of yarn through solar charkha activities can easily be undertaken in the rural areas by the Khadi institutions and entrepreneurs. The yarn produced out of solar charkhas will be converted into cloth using the weaving implements available with the weavers and subsequent processing for dyeing, finishing etc. The units will utilize the garmenting capacity available in the vicinity to convert the cloth into readymade particularly shirts etc.

Solar powered charkha also saves electricity. Khadi, a 'green' fabric, consumes lesser water as opposed to other fabrics during production. The move to switch to solar charkha makes the Khadi industry a shining example of a sustainable, employment generating, eco-friendly industry.

The solar charkha not only relieves the person working on it from the drudgery but also increases the earnings by both improving the output and quality of the thread. At a time, one person can work only on one charkha in the conventional hand driven equipment. But since the new version is solar- powered, one person can simultaneously handle or work more than one machine enhancing the earnings further.

The number of sales outlets for Khadi products has been increased to 1,060 in the last four years, he said adding exhibitions were organised in 50 countries on October 2 to create demand for such products.



The use of khadi products saw huge demands from young shoppers as well. Since khadi cloth is handspun and the end products are created mainly by artisans in rural areas, it is said that the brand invokes good vibes in consumers, especially millennial shoppers.



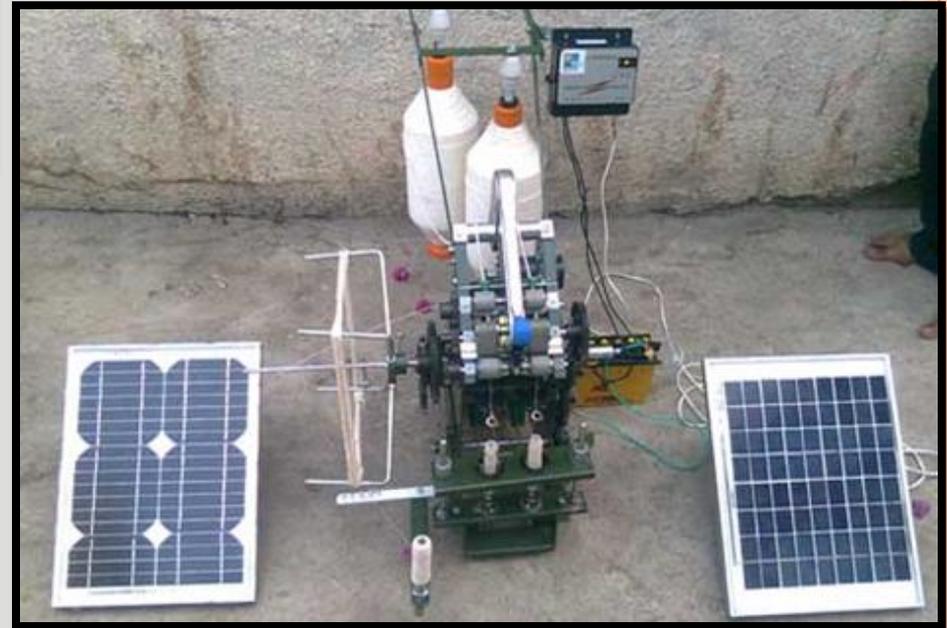
Machinery Photographs



Solar Charkha



Solar Looms



Yarn Twisting Machines

Project at a Glance

| COST OF PROJECT | | | | MEANS OF FINANCE | | | |
|---------------------|--------------|--------------|--------|--------------------|--------------|--------------|--------|
| Particulars | Existin g | Propose d | Total | Particulars | Existin g | Propos ed | Total |
| Land & Site | | | | | | | |
| Development Exp. | 0.00 | 26.00 | 26.00 | Capital | 0.00 | 106.33 | 106.33 |
| Buildings | 0.00 | 86.00 | 86.00 | Share Premium | 0.00 | 0.00 | 0.00 |
| | | | | Other Type Share | | | |
| Plant & Machineries | 0.00 | 211.00 | 211.00 | Capital | 0.00 | 0.00 | 0.00 |
| Motor Vehicles | 0.00 | 8.00 | 8.00 | Reserves & Surplus | 0.00 | 0.00 | 0.00 |
| Office Automation | | | | | | | |
| Equipments | 0.00 | 13.00 | 13.00 | Cash Subsidy | 0.00 | 0.00 | 0.00 |
| Technical Knowhow | | | | Internal Cash | | | |
| Fees & Exp. | 0.00 | 10.00 | 10.00 | Accruals | 0.00 | 0.00 | 0.00 |
| Franchise & Other | | | | Long/Medium Term | | | |
| Deposits | 0.00 | 0.00 | 0.00 | Borrowings | 0.00 | 319.00 | 319.00 |
| Preliminary& Pre- | | | | Debentures / | | | |
| operative Exp | 0.00 | 1.00 | 1.00 | Bonds | 0.00 | 0.00 | 0.00 |
| Provision for | | | | Unsecured | | | |
| Contingencies | 0.00 | 20.00 | 20.00 | Loans/Deposits | 0.00 | 0.00 | 0.00 |
| Margin Money - | | | | | | | |
| Working Capital | 0.00 | 50.33 | 50.33 | | | | |
| TOTAL | 0.00 | 425.33 | 425.33 | TOTAL | 0.00 | 425.33 | 425.33 |



Project at a Glance

| Year | Annualised | | Book Value | Debt | Dividend | Retained Earnings | | Payout | Probable Market Price | P/E Ratio | Yield Price/Book Value |
|------|------------|-------|------------|-------|-----------|-------------------|-------|--------|-----------------------|-------------|------------------------|
| | EPS | CEPS | Per Share | | Per Share | Per Share | | % | | No.of Times | % |
| 1-2 | 1.59 | 5.96 | 11.59 | 24.00 | 0.00 | 100.00 | 1.59 | 0.00 | 1.59 | 1.00 | 0.00 |
| 2-3 | 5.79 | 9.56 | 17.37 | 18.00 | 0.00 | 100.00 | 5.79 | 0.00 | 5.79 | 1.00 | 0.00 |
| 3-4 | 9.64 | 12.91 | 27.01 | 12.00 | 0.00 | 100.00 | 9.64 | 0.00 | 9.64 | 1.00 | 0.00 |
| 4-5 | 13.07 | 15.90 | 40.08 | 6.00 | 0.00 | 100.00 | 13.07 | 0.00 | 13.07 | 1.00 | 0.00 |
| 5-6 | 16.01 | 18.46 | 56.09 | 0.00 | 0.00 | 100.00 | 16.01 | 0.00 | 16.01 | 1.00 | 0.00 |



Project at a Glance

| Year | D. S. C. R. | | | Debt / - Deposits Debt | Equity as-Equity | Total Net Worth | Return on Net Worth | Profitability Ratio | | | | | Assets Turnover Ratio | Current Ratio |
|---------|-------------------|------------|---------|------------------------|------------------|-----------------|---------------------|---------------------|--------|--------|------------------|-----------|-----------------------|---------------|
| | Individual | Cumulative | Overall | | | | | GPM | PBT | PAT | Net Contribution | P/V Ratio | | |
| Initial | (Number of times) | | | (Number of times) | % | % | % | % | % | % | % | | | |
| 1-2 | 1.00 | 1.00 | | 3.00 | 3.00 | 2.79 | | 7.83% | 1.47% | 1.88% | 807.97 | 89.7% | 1.96 | 0.91 |
| 2-3 | 1.41 | 1.20 | | 1.04 | 1.04 | 1.59 | | 13.48% | 8.49% | 5.86% | 935.06 | 89.0% | 2.23 | 1.14 |
| 3-4 | 1.88 | 1.40 | 1.83 | 0.44 | 0.44 | 0.84 | | 17.07% | 13.14% | 8.54% | 1068.46 | 89.0% | 2.30 | 1.55 |
| 4-5 | 2.38 | 1.62 | | 0.15 | 0.15 | 0.45 | | 19.26% | 16.14% | 10.29% | 1201.86 | 89.0% | 2.21 | 2.07 |
| 5-6 | 2.93 | 1.83 | | 0.00 | 0.00 | 0.23 | | 20.43% | 17.93% | 11.35% | 1335.26 | 89.0% | 2.05 | 3.87 |



Project at a Glance

BEP

| | |
|---|---------------|
| BEP - Maximum Utilisation Year | 5 |
| Cash BEP (% of Installed Capacity) | 77.81% |
| Total BEP (% of Installed Capacity) | 79.76% |
| IRR, PAYBACK and FACR | |
| Internal Rate of Return .. (In %age) | 22.39% |
| Payback Period of the Project is (In Years) | After 3 Years |
| Fixed Assets Coverage Ratio (No. of times) | 7.316 |

Major Queries/Questions Answered in the Report?

- 1. What is Yarn, Fabric & Garments Manufacturing industry using Solar Charkha & Solar Looms?**
- 2. How has the Solar Charkha Cluster performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Yarn, Fabric & Garments Production Plant ?**
- 4. What are the requirements of Working Capital for setting up Yarn, Fabric & Garments Production plant ?**

- 5. What is the structure of the Yarn, Fabric & Garments Production Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms?**
- 7. What are the operating costs for setting up Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms ?**
- 8. What are the machinery and equipment requirements for setting up Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms?**
- 10. What are the requirements of raw material for setting up Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms?**
- 12. What is the Manufacturing Process of Yarn, Fabric & Garments using Solar Charkha & Solar Looms?**

- 13. What is the total size of land required for setting up Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms?**
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Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms .” provides an insight into Solar Charkha & Solar Looms market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms project. The report assesses the market sizing and growth of the Indian Solar Charkha & Solar Looms Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms sector in India along with its business prospects. Through this report we have identified Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms project as a lucrative investment avenue.

Tags

#Khadi_Solar_Charkha, #Solar_Power_Charkha_for_Production_of_Solar_Spun_Yarn, Solar Charkha Spinning, Weaving, Processing and Garments, Khadi Production, #Production_of_Yarn_on_Solar_Charkha, Khadi and Village Industries, Solar Loom to Spin Khadi, Solar Charkha, Solar Charkhas and Looms, #Charkha_or_Loom_for_Producing_the_Solar_Garment, Solar Charkha Project Pdf, Solar Charkha Khadi Production, #Production_of_Yarn, Garments Production Using Solar Charkha & Solar Looms, Solar Charkha and Loom, #Solar_Charkha_Cloth_Production, Solar Looms and Garment Production Unit, Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms, Micro, Small and Medium Enterprises (MSME), Solar Charkha Model to Generate Employment for Women, Khadi and Village Industry Commission (KVIC), #Khadi_Industry, Solar Charkha in Khadi Sector, Khadi Production Process, Khadi Production, Textile & Apparel Industry, Garment Manufacturing, Production of Yarn Through Solar Charkha, Garment Manufacturing Unit, #Project_Report_on_Yarn_Fabric_&_Garments_Production_using_Solar_Charkha_&_Solar_Looms, Detailed Project Report on Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms, Project Report on Production of Yarn through Solar Charkha, Pre-Investment Feasibility Study on Production of Yarn Through Solar Charkha, Techno-Economic feasibility study on Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms, Feasibility report on Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms, #Free_Project_Profile_on_Yarn_Fabric_&_Garments_Production_using_Solar_Charkha_&_Solar_Looms, Project profile on Yarn, Fabric & Garments Production using Solar Charkha & Solar Looms, Download free project profile on Yarn, #Fabric_&_Garments_Production_using_Solar_Charkha_&_Solar_Looms, Solar Charkhas Set to Change Khadi Sector, Solar-Driven Wheel, Hanks of Yarn, Hand-Spun Charkha, Prime Minister's Employment Generation Programme, Development of Solar Charkha Clusters, Under Mission Solar Charkha Ministry of MSME

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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



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- **Project Costs and Payback Period**

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

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Niir PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company



www.entrepreneurindia.co

Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*



Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

Contact us

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