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Surgical cotton wool made in Zambia

By

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The views expressed are those of the author and do not necessarily reflect the views of UNCTAD.



SURGICAL COTTON WOOL MADE IN ZAMBIA

*THE CASE OF PREMIER MULTI-PURPOSE CO-
OPERATIVE SOCIETY LTD*

By : CARRIVORIOUS SIMASINTI

INTRODUCTION

- ❑ Premier Multi- Purpose Co-operative Society Limited is a registered Co-operative under the Co-operatives Registration Act with Registration Number 43102 issued by the Ministry of Commerce, Trade and Industry. The core business of this Cooperative is processing raw lint into absorbent or surgical cotton wool for medical and sanitary use.
- ❑ Premier MPCS Limited is located at Plot No. 7266, Mukatasha Road, in the light Industrial area of Lusaka, Zambia. Almost 16 000 square metres of land has been offered for the proposed modern plant.

OBJECTIVE

Premier Co-operative was founded on the objective to promote the Economic, Social, Cultural and Environmental development in Zambia and beyond. This will be achieved by setting up a modern cotton processing plant, with appropriate machinery to produce sustainably international quality cotton wool at a competitive cost.



MISSION

To enhance wellness and hygiene

VISION

To be the leading producer and supplier of surgical cotton wool, pre and post surgery pads and sanitary pads in Eastern and Southern Africa by the year 2024

VALUES

Premier Co-operative was also founded on Ethical values of Honest, Openness, Social Responsibility and Caring for each other.



THE PROCESS OF MANUFACTURING CONSISTS OF VARIOUS STEPS

1. Opening and cleaning of raw cotton (Kiering)
2. Bleaching
3. Removal of Chemicals
4. Drying
5. Lapping
6. Carding
7. Rolling
8. Pleating
9. Weighing and cutting

BLEACHING



DRYING



CARDING



PACKING



MARKET ANALYSIS

- ❑ Surgical cotton wool or Absorbent Cotton wool is mainly used for medical purposes in hospitals, nursing homes, dispensaries, homes and in industries (for first aid) etc.
- ❑ The demand for surgical Cotton is directly related with the increase in population and expansion of public health services.
- ❑ With increased development of medical facilities (government and private) and growing awareness towards personal hygiene, the demand for surgical cotton wool is registering steady increase.
- ❑ Our customers(outlets) are mostly Pharmaceuticals , Chemists and Wholesalers in Lusaka
- ❑ All the surgical cotton wool used in government and private hospitals in Zambia and neighbouring countries is imported and this gives a huge local and export market

COMPETITIVE ANALYSIS

LOCATION

Premier Co-operative is located in Zambia, a land linked country surrounded by eight (8) neighbours. Of these neighbours, only Zimbabwe produces surgical cotton wool but cannot also meet even its own demand.



BUSINESS CHALLENGES

- Lack of machinery
- Lack of development capital
- Land
- Market Connections



KEY SUCCESS FACTORS

- ❑ Availability of the raw material (raw cotton) locally
- ❑ Availability of the market, both locally and internationally
- ❑ Competition in the region is almost Zero as most countries do not produce surgical cotton wool but rely on imports from Asia and Europe

MACHINERY & EQUIPMENT

1. Bale Press Machine
2. Step Cleaning Machine
3. Crightner Opener Machine
4. Kier High Pressure Vessels
5. Heat Exchanger or Pre-Heater
6. Steam Generator or Boiler
7. Hydro Extractor Machine
8. Wet Cotton Opener
9. Continuous type Dryer steam heated (Optional)
10. Hopper feeder machine and Krishner better and Calender Roll single assembled unit
11. Carding machines with Roller drum attached
12. Rolling Machine

MACHINERY & EQUIPMENT CONT:

13. Cutting Machine

14. Packing sealers, hot air gun

15. Weighing scales

16. Moisture machine or mist formation equipment

17. Water softener

- Lab Equipment

18. SurgLab Equipment

19. Surgi pad and I pad making machine and Zig Zag cotton

20. Electrical Panel

COST ANALYSIS

Processing 400 tones of Lint(360mt wool)

- ❑ Land and construction \$250,000
- ❑ Machinery & Equipment CIF
Lusaka \$301,463
- ❑ Plant Equipment \$55,000
- ❑ Raw Cotton for 1 year 440,000
- ❑ Working Capital 3 Months
\$161,283
- ❑ Total Capital Investment
\$1,207,743.77

PROJECT TIMELINE

- ❖ At workshop India 10-12 Weeks
 - ❖ Internal Inspection & testing of each equipment 2 weeks
 - ❖ Maximum time at factory in India ready for dispatch **14 weeks**
 - ❖ Transit period from Nagpur to Lusaka 6 weeks
 - ❖ Erection and Commissioning in Zambia & training of workers 8 weeks
- ❖ Maximum Project Timeline **7 months**
 - Human Resources from India 8

CONCLUSION

- ❑ All necessary preparations for the project are in place
- ❑ Land for putting up the factory is available
- ❑ Discussions with machine manufacturers are complete
- ❑ Project financing required

**THANK YOU FOR
YOUR ATTENTION**

