



DPR | DETAILED
PROJECT REPORT

GUNDAKANAHALLI COIR CLUSTER

ARSIKERE, HASSAN DISTRICT

Submitted to
Coir Board of India

Ministry of MSME, Government of India

Submitted by



Foundation for MSME Clusters
(ISO 9001:2008 Certified Organisation)

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TABLE OF CONTENTS

| Chapter No | Name | Page Nos. |
|-------------------|---|------------------|
| PART I | | |
| 1 | CLUSTER PROFILE | 3 |
| 2 | CLUSTER PRODUCTS AND PRODUCTION PROCESS | 10 |
| 3 | MARKET ASSESSMENT & DEMAND ANALYSIS | 15 |
| 4 | SWOT AND NEED GAP ANALYSIS | 18 |
| 5 | PROFILE OF IMPLEMENTING AGENCY | 23 |
| 6 | PROJECT CONCEPTS & STRATEGIC FRAME WORK | 25 |
| PART II | | |
| 7 | PROJECT INTERVENTIONS (CORE SFURTI) | 27 |
| 8 | SOFT INTERVENTIONS | 29 |
| 9 | HARD INTERVENTIONS | 35 |
| 10 | PROJECT COST & MEANS OF FINANCE (CORE SFURTI) | 38 |
| 11 | PLANS FOR CONVERGENCE OF INITIATIVES | 41 |
| 12 | ENHANCED PROJECT COST & MEANS OF FINANCE | 43 |
| 13 | PROJECT TIMELINE | 44 |
| 14 | DETAILED BUSINESS PLAN | 45 |
| 15 | PROPOSED IMPLEMENTATION FRAME WORK | 49 |
| 16 | EXPECTED IMPACT | 52 |
| Annexures | | |
| 1 - 14 | FINANCIAL STATEMENTS | |
| 15 | SPV REGISTRATION DOCUMENT | |
| 16 | SPV BY LAWS AND LIST OF MEMBERS | |
| 17 | SPV BANK ACCOUNT DETAILS | |
| 18 | LAND AFFIDAVIT/ RELATED DOCUMENTS | |
| 19 | QUOTATIONS | |
| 20 | TRIPARTITE AGREEMENT | |
| 21 | IA REGSITRATION | |
| 22 | IA LAST 3 YEAR IT STAEMENTS | |
| 23 | PROFILE OF ARTISANS | |

LIST OF ACRONYMS

| | | |
|-----------|------------|--|
| 1 | BIS | Bureau of Indian Standards |
| 2 | BEP | Break Even Point |
| 3 | CCRI | Central Coir Research Institute |
| 4 | CFC | Common Facilities Centre |
| 5 | CGTMSE | Credit Guarantee Trust for Micro, Small and Medium Enterprises |
| 6 | CICT | Central Institute of Coir Technology |
| 7 | CLCSS | Credit Linked Capital Subsidy Scheme |
| 8 | CUY | Coir Udyami Yojana |
| 9 | CVY | Coir Vikas Yojana |
| 10 | DIC | District Industries Centre |
| 11 | DRDA | District Rural Development Agency |
| 12 | DPR | Detailed Project Report |
| 13 | FICEA | Federation of Indian Coir Exporters Association |
| 14 | FI | Financial Institution |
| 15 | IRR | Internal Rate of Return |
| 16 | KSFC | Karnataka State Coir Federation |
| 17 | KVIC | Khadi & Village Industries Commission |
| 18 | MSME | Micro Small & Medium Enterprises |
| 19 | MoMSME | Ministry of Micro Small & Medium Enterprises |
| 20 | MSMEDI | Micro Small Medium Enterprise Development Institute |
| 21 | MDA | Market Development Assistance |
| 22 | NABARD | National Bank for Agri & Rural Development |
| 23 | NMCP | National Manufacturing Competiveness Program |
| 24 | NPV | Net Present Value |
| 25 | NH | National Highway |
| 26 | NTDC | National Technology Development Corporation |
| 27 | ROCE | Return on Capital Employed |
| 28 | SFURTI | Scheme of Fund Under Rejuvenation of Traditional Industries |
| 29 | TI | Technical Institution |
| 30 | TL | Term Loan |
| 31 | EC | Working Capital |
| 32 | PC & MF | Project Cost and Means of Finance |
| 33 | UPS | Uninterrupted Power Supply |

PART - I

CHAPTER – 1 CLUSTER PROFILE

1.1 Background

SFURTI is a cluster based scheme to promote and strengthen the traditional village industries. The scheme was commenced in the year 2005 and was initiated by the ministry of MSME, Govt. of India.

Under the scheme so far 96 Khadi and village industries and 26 coir clusters have been approved and are under various stages of implementation. In the year 2014 the guidelines of SFURTI have been revamped and it is expected to cover 800 clusters under 12th five years plan.

Coir Board with the help of Commissioner of Industries, Government of Karnataka has identified several coir clusters and entrusted the task of preparation of DSRs to EDII, Ahmedabad. The DSRs for all the clusters have been approved by subsequent Scheme Steering Committee meetings for DPR preparation. M/s Foundation for MSME clusters has been appointed as the Technical Agency and entrusted with the task of preparing the DPR.

The present report pertains to the Detailed Project Report along with action plan for Soft Interventions and Business Plan for Hard Interventions.

1.2 Regional Setting of cluster

Gundakanahalli is a ward in Arsikere town, Arsikere taluk in Hassan District of Karnataka State, India. This cluster has 10 defibering units with a production of 5625 tonnes of fibre per day and 40,000 meters of curled rope per day. The aggregate turnover of these firms is 910 lakhs and is employing 140 workers directly and 360 indirectly.

1.3 Location

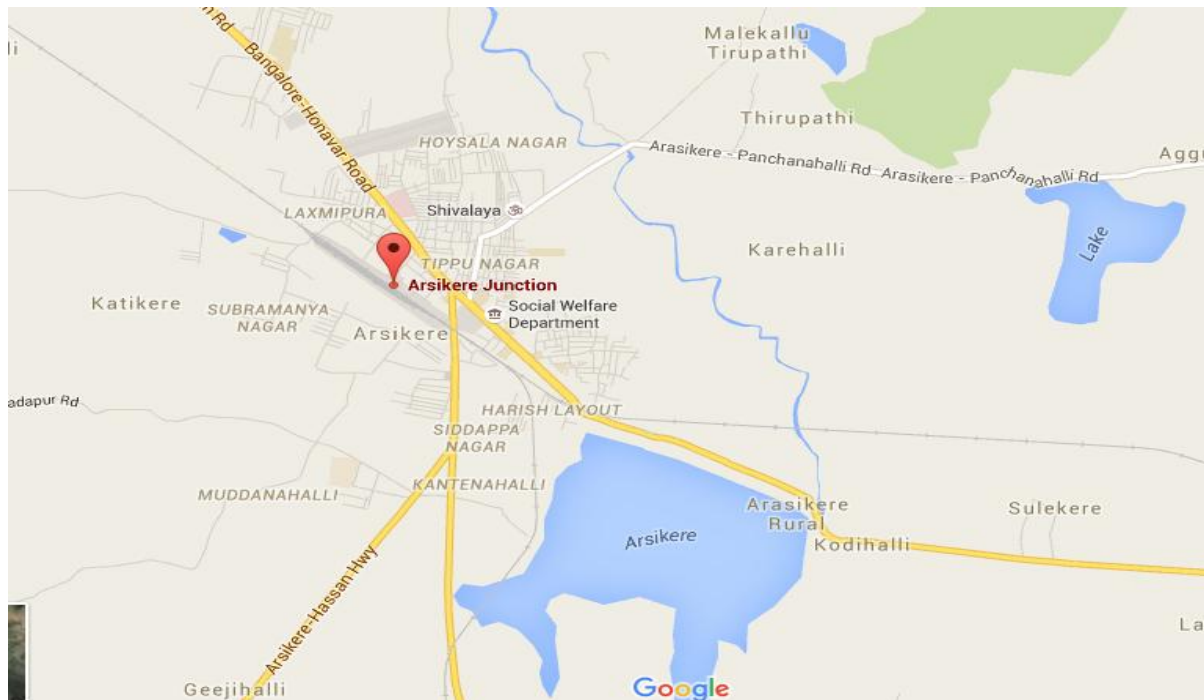
It is located 44 KM towards North from District headquarters Hassan and 175 KM from State capital Bangalore

Arsikere town which is nearer to the cluster and the nearby areas are known for its coconut production and the Malekallu Tirupathi hill. Arsikere is the taluka headquarters, a major railway

GUNDAKANAHALLI COIR CLUSTER (MINOR)

junction on the South Western Railway which links Mysore and Mangaluru to North Karnataka and a central place for tourists who visit nearby places that do not have rail access, such as Belur, Halebidu, and Shravanabelagola.

The district Hassan is located in the south eastern part of Karnataka and is bounded by Tumkur, Chickmagalur, Davanagare and Bellary and is 194 kms away from the state capital of Bengaluru. The District was formerly a part of Malanadu area and due to deforestation; it has become a separate Semi-Malanad District. Like most of the other districts in the State, this district also derives its name from the Head Quarter town of Hassan. The geographical area of Hassan district is 6,845 Sq. Kms, which accounts to 3.58 per cent of the state. The district is one of the smaller districts in Karnataka State.



NH48, NH206 passes through Hassan district through a length of 246 Km. The district has 15322 Km of surface roads. The nearest port is Mangalore port and the nearest airport is Bengaluru international airport (168 kms).

(Source: <http://www.onefivenine.com/india/villag/Hassan/>)

1.4 Evolution of the Coir Industry in the region

Hassan has the second largest coconut area in the State. Nearly 14% of area under coconut cultivation in Karnataka is from this district. The district comprises of 8 taluks, of which

GUNDAKANAHALLI COIR CLUSTER (MINOR)

Arisekere and Channarayapatna were selected under the study as cluster spread is in this blocks. Of the 8 Taluks in Hassan, Arisekere and Channarayapatna contributes maximum towards the coconut production in the district (almost 81%). Average holding size as per survey findings is 0.74 Ha. Coconut palm density for the district is found to be 141 per Ha. Whereas the bearing palm density is 106 per Ha.

Around 40 years ago *Kurl-on* has set up its fibre unit as back ward integration for its mattress making unit in Arsikere town. The first coir unit in Arsikere Taluk was set up during 1970s such as Siddeswara and Renuka coir industries. The earliest units set up however, were not survived as the industry is quite sensitive to cost fluctuations and environmental factors.

However with the success of Kurl on and some of the workers from it have started their own defibering, curled yarn and activated carbon units in various villages of the cluster which is apart from the unit established by Karnataka State Coir Development Corporation. Even the Karnataka Coir Federation also started their units by early 2000.

In the year 2000-02, most of the units were shut down due to an outbreak of disease in the coconut plantations. The industry has recovered since then and by 2014, the production has increased by many folds and today the fibre production has reached 40000 MT per annum.

1.5 Demography and growth Trends

Gundakanahalli is a part of Arsikere, which is divided into 30 wards. The Arsikere Town Municipal Council has population of 53,216 of which 26,956 are males while 26,260 are females

Population of Children with age of 0-6 is 5036 which is 9.46 % of total population of Arsikere in Arsikere Town Municipal Council; Female Sex Ratio is of 974 against state average of 973. Moreover Child Sex Ratio in Arsikere is around 941 compared to Karnataka state average of 948. (Census 2011)

Hassan district has a total population of 17, 21,669 and is predominantly rural with a rural population of 14, 16,996. It recorded a population growth rate of 9.68% according to census 2011 and sex ratio is 1010. Literacy rate is 60.67%. Some important sub cluster wise demographic parameters are given in the following table:

GUNDAKANAHALLI COIR CLUSTER (MINOR)

Growth trends at district level

In Hassan district, there are 78 factories, 16 industrial estates and 10,883 MSME units with investments of Rs.1975 million and 47,307 workers employed in these.

The prominent sectors are in the realm of food processing and tourism.

SEZs: Hassan district has established SEZs in textiles, food processing, pharma and electronic hardware.

The details of existing micro, small & artisan enterprises in the district are as follows:

| Sl.No | Type of Industry | Number of Units | Investment (Lakh Rs.) | Employment |
|-------|---|-----------------|-----------------------|------------|
| 1 | Agro Based, Food & Beverage | 2013 | 6985.41 | 11172 |
| 2 | Cotton textile | 192 | 452.00 | 438 |
| 3 | Woollen, silk & artificial Thread based clothes. Garments | 1792 | 2322.14 | 5637 |
| 4 | Jute & jute based | - | - | - |
| 5 | Wood/wooden based furniture | 2020 | 2708 | 7031 |
| 6 | Paper & Paper products, printing | 234 | 696.61 | 1050 |
| 7 | Leather based | 333 | 378.74 | 1420 |
| 8 | Chemical/Chemical based | 360 | 939.28 | 1715 |
| 9 | Rubber, Plastic & petro based | 223 | 589.9 | 991 |
| 10 | Mineral based | 214 | 2334.15 | 1433 |
| 11 | Metal based (Steel Fab.) | 86 | 346.56 | 402 |

(Source: District Industry Centre, Hassan)

There is an increasing trend in the number of industrial units being registered in Hassan (across large, medium and small industries) after a short lull between 2006 and 2009, as shown in the figure:

| Year | Number of Units Registered | Employment | Investment (Lakh Rs.) |
|---------|----------------------------|------------|-----------------------|
| 2004-05 | 467 | 2139 | 2403 |
| 2005-06 | 562 | 2295 | 3823 |
| 2006-07 | 485 | 2296 | 2823 |
| 2007-08 | 361 | 3722 | 4402 |
| 2008-09 | 290 | 2038 | 2560 |

GUNDAKANAHALLI COIR CLUSTER (MINOR)

| | | | |
|---------|--------------|--------------|--------------|
| 2009-10 | 544 | 1604 | 1127 |
| 2010-11 | 642 | 1541 | 1872 |
| | 12503 | 51997 | 25603 |

(Source: District Industry Centre, Hassan)

Coir Industry in Hassan District

Coir, the agro-based rural industry, provides sustenance to about ten thousand families in Hassan of which 80% is women from the weaker section.

The concentration of coir industry in the District was due to the abundant availability of raw material, skilled labour and natural facilities of backwaters and lagoons within the easy reach. There are nearly 100 coir industrial establishments and most of them are micro/cottage household units engaged in the processing and manufacture of coir and coir products.

| SL No | Year | Area(Ha) | Production(Lakh Nuts) | Productivity(Nuts/Ha) |
|-------|---|----------|-----------------------|-----------------------|
| 1. | 2005 - 2006 | 61775.00 | 2564.94 | 4153 |
| 2. | 2006 - 2007 | 61788.00 | 2565.47 | 4153 |
| 3. | 2007 - 2008 | 61805.00 | 2968.79 | 4804 |
| 4. | 2008 - 2009 | 61880.00 | 3471.67 | 5611 |
| 5. | 2009 - 2010 | 62256.00 | 4426.51 | 7111 |
| 6. | 2010 - 2011 | 62390.00 | 4040.12 | 6476 |
| 7. | 2011 - 2012 | 62575.00 | 6221.56 | 9943 |
| 8. | 2012 - 2013 | 63056.00 | 6208.83 | 9847 |
| 9. | Average Production in the Year group(2000-13) : | 60055.23 | 3454.27 | 5752 |

Source:www.coconutboard.gov.in

1.6 Human Development Aspects

- Average literacy rate of Gundakanahalli and Arsikere in 2011 was 89.09%.
- In Arsikere, Male literacy is around 92.50 % while female literacy rate is 85.61 %.
- Sex ratio is also commendable with 974 females per 1000 males. (Compared to national average of 940).
- HDI of Hassan district stood at 0.639 according to Karnataka state Human Development Report 2005 and this has also improved significantly as shown:

GUNDAKANAHALLI COIR CLUSTER (MINOR)

| Si No | Name of the District/State | HDI | | | GDI | | |
|-------|----------------------------|-------|-------|----------|-------|-------|----------|
| | | 1991 | 2001 | % change | 1991 | 2001 | % change |
| 1. | Hassan | 0.519 | 0.639 | 23.12 | 0.507 | 0.630 | 24.26 |
| 2. | Karnataka | 0.541 | 0.650 | 20.14 | 0.525 | 0.637 | 21.34 |

(Source: Government of Karnataka (2006) Karnataka Human Development Report 2005)

- Per capita GDP has also improved significantly from Rs.10, 263 to Rs.19, 277.

1.7 Socio Economic aspects

According to the Dr. Nanjundappa High Power Committee on Regional Imbalances Redressal Report of Karnataka State, Arsikere taluk has been considered as one of the backward taluks in Hassan district. Per capita income of the district is Rs 19,277. The percentage of BPL population is 11.55%.

Majority of the people are Hindus such as, Lingayath, Vokkaligas, and Edigs. The sub clusters to be targeted have a significant SC population.

The income of major unit holders ranges between Rs. 20000 to 30000 per month, whereas for artisans it is Rs. 300 to 400 per day if skilled and Rs.150 to 200 per day for semi/unskilled.

1.8 Key Economic Activities of the district

The major industries in Hassan are of textiles, pharma, dairy, electronic hardware, IT and ITES with a number of SEZs established in these sectors. The region also has a huge scope for food processing industries and is recognized as an agri export zone. Tourist and religious centres such as Belur, Halabeedu, Ramanathapura, Gorur, Bisle Ghat, and Shravanbelagola are also aplenty here.

There are 3, 93,500 hectares of land under agriculture. Coffee, Black Pepper, Potato, Paddy and Sugarcane are the major agricultural crops, Horticulture is also prominent in the area with extensive plantations of Coconut, Areca nut, Cocoa and Oil palm as well as spices , vegetables, flowers and fruits.

(Source: bounteouskarnataka.com/.../DistrictProfile-Hassan.pdf)

GUNDAKANAHALLI COIR CLUSTER (MINOR)

1.9 Infrastructure

Power: While power generation is handled by various organisations like NTPC, KPCL, etc.; power transmission is efficiently managed by Chamundeshwari Electricity Supply Corporation Ltd. The district has no major power generation units.

Water: Cauvery, Hemavathi and Yagachi rivers are flowing in this district. Hemavathy reservoir at Gorur is the main dam while Yagachi and Vatehole are the other two small reservoirs in the district. The ground water level is low.

Education: Hassan has 2998 primary schools, 508 High schools and 149 junior colleges. In higher education segment, the district has 5 engineering colleges, 2 medical colleges and 3 polytechnics besides 15 general colleges. The district has 274 public libraries.

Health: The district has 98 Primary Health Centres, 8 Allopathic Hospitals and 39 private hospitals. Dispensaries and drug shops are also available in plenty in the district. The district has been the centre for various healthcare initiatives at Government level like TB control programme, polio immunization programme, etc.

(Source: bounteouskarnataka.com/.../DistrictProfile-Hassan.pdf)

CLUSTER PRODUCT AND PRODUCTION PROCESS

2.1 Product Profile:

The main activity in all the units is defibering in order to produce fibre, curled yarn and ropes using fully or semi-automated machinery. They also produce pith as a by-product but its utilization is minimum and it is sold to nurseries and manure producing agents.

There is only one major pith processing unit, situated in Arsikere town. It is owned privately and run on a contract basis with a Mexican firm.

2.2 Production Process

Raw material: Around 20,000 husks are used per day per unit for production of fibre per unit. This is procured from the husk merchants at the rate of Rs.500-600 for 1000 husks who in turn collect the produce of the local farmers

Defibering: There are 38 defibering units in the district that produce fibre, curled ropes and pith as a by-product. For this process, motorized machines with flat beater arms, operating inside steel drums are made use of. Separation of the bristle fibers is done by hand or in a machine consisting of a rotating drum fitted with steel spikes. Separation of the mattress fibers from the pith is completed by washing the residue from the de-fibering process and combing through it by hand or tumbling it in a perforated drum or sieve. The clean fibers are spread loosely on the ground to dry in the sun.

Finishing: Bristle fibres will be further processed are rolled and tied into loose bundles for storage. Major units are using manual operated press to create compact bales. All the units in Haralakatta and Javagalare making use of semi-automated bundle presser for creating bundles.

Yarn making: Most of the units that produce curled ropes are making use of automatic 2 ply yarn spinning machine. Each machine produces around 15 bundles of 30kgs each in one shift.

Analysis of production Process:

- Curled ropes are the only value added products

GUNDAKANAHALLI COIR CLUSTER (MINOR)

- Most unit owners are reluctant to go for any value added products like mats and matting after defibering as it is viewed as a risky venture involving new investment in machinery, labour intensity and uncertain demand.
- Husk prices can fluctuate widely with seasons – it has doubled since last year due to deficient rainfall and production. This adversely affects net production and breakeven costs.
- There is excess availability of pith and all unit owners are finding the dumping of this pith a huge problem. Almost 3 tonnes of pith are produced for every tonne of fibre produced, of which only 10-15% is being utilized currently for manure.

2.3 Value Chain

2.3.1 Husk to Fibre (output of 1 MT fibre)

| Activity | Present Value Chain | |
|---|---|--------------|
| | Cost (In Rs.) | (Cumulative) |
| 12,000 husks/day at Rs 500/1000 husks | 6000 | 6000 |
| Defibering-12,000 husks for 1 tonne of fibre | 2500+5000+1000 (labor + Electrical/diesel+ misc. charges) | 14,500 |
| Selling price at Manufacturer (10% on cost of production) | 1450 | 15,950 |
| Yarn making Charges from 1 ton fibre (20 % wastage thus 800 KG of yarn) | 7500 | 23450 |
| Selling price of 800 KGs of Yarn (10% on cost of production) | 2400 | 25850 |

2.3.2 Pith Block Making value chain (Post CFC)

| Activity | Value chain post CFC | |
|--|-----------------------|------------|
| | Cost (In Rs.) | Cumulative |
| 14,000 kg pith (Requirement of 1 machine/day) | 5000 | 5,000 |
| Screening, Cleaning, Dyeing, Processing + labor+ Misc. Charges | 42,000 +12,500+ 2,500 | 62,000 |
| Sale of 4800 kg pith block per machine at Rs. 16/kg | 14,800 (24%) | 76,800 |

GUNDAKANAHALLI COIR CLUSTER (MINOR)

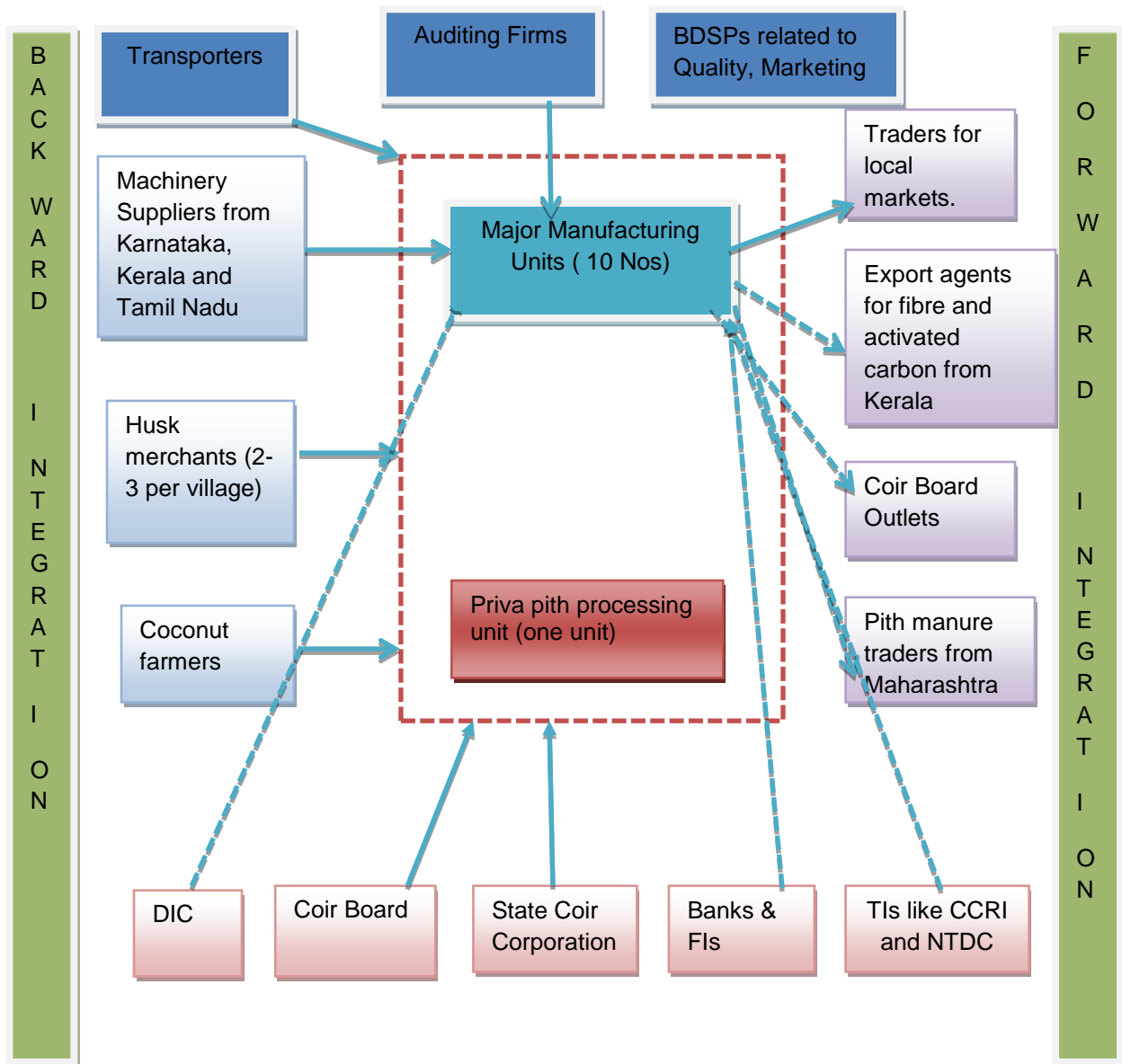
Analysis of value chain

At present, due to the high price of good quality husks and involvement of middlemen in the marketing process, the margins for fibre and curled yarn is very low and reaching a breakeven point can get difficult.

Pith is an untapped resource that need not be bought as it is available in plenty with all units. Thus, manufacture of pith blocks at a common facility centre may allow them to realize higher margins than that gained through their main manufacturing processes.

GUNDAKANAHALLI COIR CLUSTER (MINOR)

2.4 Cluster Map



- Index:
1. Dotted square box around core cluster firms indicate poor inter-firm linkage
 2. Dotted arrow represents weak linkages
 3. Solid arrow represents strong linkages
 4. Lack of arrow represents absence of any linkages
 5. Double sided arrow represents two way linkages

2.5 Principal Stakeholders

There are 10 major defibering and curled yarn units including major and minor units. There are 2-3 husk merchants in every village. Some of the fibre manufacturers also supply their curled ropes to *Kurl-on* mattress ltd. that has a unit in Arsikere town. Other than the above,

GUNDAKANAHALLI COIR CLUSTER (MINOR)

house hold units and workers in the major units have also been considered as principle firms. Linkage among the sub clusters is good while as cluster level it is weak.

Backward linkages

The raw material suppliers are coconut farmers and husk merchants who supply minor and major units with husk, most of which is from local plantations. Some units also procure a small percentage from Kerala. The common machinery put to use are buster, beater and screener for defibering, 2 ply automatic yarn spinning machine or charkas for spinning and mat frames for mat making. These are supplied by machinery suppliers from Tamil Nadu, Karnataka and Kerala. At the pith processing unit, machinery was fully imported from Mexico.

Forward Linkages

The coconut fibre is mainly sold to local traders who further sell it to markets in Arsikere and Bangalore. Some of the bigger defibering units also sell their products to export agents who supply to China.

There is marginal utilization of pith for manure and it is supplied for nurseries and greenhouses in Maharashtra. Pith blocks produced at the sole pith processing unit in the cluster is bought by the Mexican contractor firm which exports it to foreign countries.

Other Support Institutions

Coir Board provides technical support to these units like sharing ideas on value addition of the products and imparting skill development trainings. The units also avail of subsidies meant for village industries from the Khadi or Coir Board. For availing credit, units generally approach Canara bank and State Bank of Mysore.

The coir manufacturing industry is producing coir mats, matting and other floor coverings, which was started in India on a factory basis, over a hundred years ago when the first factory was set up in Alleppey in 1859 by the Late Mr. James Darragh, an adventurous Irish born American national. Enterprising Indians followed the trail blazed by this foreigner. India accounts for more than two-thirds of the world production of coir and coir products. Amongst the coconut growing countries of the world India ranks 3rd after Philippines and Indonesia with 1.2 Million hectares of coconut growth and an average production of 6620 Million nuts.

Indian coir industry is an important cottage industry contributing significantly to the economy of the major coconut growing states and Union Territories of India, i.e., Kerala, Tamilnadu, Andhra Pradesh, Karnataka, Maharashtra, Goa, Orissa, Assam, Andaman and Nicobar, Lakshadweep, Pondicherry, etc. Modern machines were introduced into the coir industry in the late 1960's. About 5.5 lakh persons get employment in this industry. India exports around Rs.1000 crores of coir and coir products annually. Coconut husk is the basic raw material for coir products. Coir or Cocos - Nature's wonder Fibre is extracted from the protective husk of the Coconut.

3.1 Coir Products and their applications

A score of varieties/grades of coir yarn are produced and each variety is associated with certain specific characteristics, used for industrial, agricultural and domestic applications. The exhaustive range of floor coverings, hardwearing door mats, durable Mattings and rugs, crush-proof pile carpets, heavy flowered Mourzouks, etc. in a variety of dimensions enhance the elegance of the place of choice. These products are either hand-woven by expert craftsmen or are aesthetically manufactured on modern mechanised looms.

Other products of coir are, Geo-Textiles which are inexpensive, quick and effective in Civil Engineering practices. Rubberised coir, a blend of coir and latex, offers mattresses and cushioning for restful comfort and Pith which is now being widely used in agriculture as a natural hydroponic growing medium.

GUNDAKANAHALLI COIR CLUSTER (MINOR)

3.2 Domestic and Global markets for coir

The domestic market for coir products is currently estimated at Rs 2,000 crore and this is expected to grow to Rs 3,500 crore by 2017. The state of Kerala is responsible for about 80% of India's coir market. The coir industry in Kerala employs almost 3.5 lakh people. Over 50% of the coir fibre produced annually throughout the world is consumed mainly in India.

The exports of coir and coir products from India during 2014-15 have reached 1630.30 crores which is an increase by Rs. 154 crores from previous year. During the year 2014-15, 6, 26,666 MT of coir and coir products were exported from the country as against 5, 37,040 MT exported during preceding year. The increase in quantity and value works out to 16.7% and 10.5% in comparison with 2013-14. Coir pith, fibre, handloom mats, coir rope, curled coir, coir rugs and coir mats registered a growth ranging from 12 to 45%, coir yarn tufted mat, power loom mat, handloom matting, and coir geo textiles and rubberised coir recorded decline ranging from 5 to 51%.

China is the major importer of coir fibre for manufacturing mattress boards for their domestic requirement. They are focussing further to import more coir pith/ grow bags for horti/ agriculture requirements. The coir handloom products export has shown marginal increase by quantity but no increase by value comparing last year.

Coir fibre with export earnings of Rs, 419.23 crores constituted 26% of total export of coir products from the country. Similarly coir pith with an export of Rs. 432.95 crores constituted to 27% of total exports. All other value added items put together constitutes 47% of total exports. During the year 2014-15 coir and coir products from the country were exported to 115 countries around the globe. China topped the importing countries with 28.6% in value and 39% in quantity. USA emerged as the second largest importer of coir from India with a share of 21.3%. Coir exports from India now have new markets such as Russia and Latin America.

(Source: website of Coir Board)

3.3 Programs to promote Coir Products

Programs for coir industry aims at increased utilisation of coconut husk for production of coir fibre, growth of the domestic market, strengthening of research and development to find out new uses of coir fibre especially in the areas of geo-fabric, acquiring of new

GUNDAKANAHALLI COIR CLUSTER (MINOR)

technology like Vinyl backed coir products. Mechanisation in all areas of production like the dfinbreing, spinning and weaving are implemented in a phased manner without affecting employment to make Indian coir products competitive in the export market. Modernisation of coir units has been propelled by providing incentives for installation of modern equipment's to make the coir industry more productive and labour friendly. Some of the common attributes are it provides excellent insulation against temperature and sound.

3.4 Major associations involved in coir promotion

FICEA Is the Confederation of Coir and also allied products exporters of India. FICEA, under its single umbrella, has to its credit all the Exporter Associations of coir from the country namely- the Indian Coir Exporters Chamber, Indian Coir Association, Coir Shippers Council, Travancore Coir Mats and Mating Manufacturers Association and The Coir Pith and Allied Products Manufacturers and Exporters Association, which exports about 1000 crores worth of Coir and Coir Products from the country. It voices the problems and difficulties being faced by the coir industry in general and the exporters in particular.

(Source: Indian Mirror.com)

3.5 Analysis

- *Cluster firms never capitalised, the growing export market for coir yarn and mats, which are its major products. All the firms are depending only on domestic traders who in turn by exporting are making major profits. There is a need for cluster firms to opt for direct export market.*
- *With the existing production process, cluster firms are capable of making pith, for which no conscious efforts were made. In fact cluster firms can opt for a Common Pith making unit, if economics of scale for individual units is adverse.*
- *Linkage of cluster firms never gone beyond coir board; it is high time for at least major manufacturers to be the members of FICEA, which can facilitate in direct marketing.*
- *There is a huge untapped market in countries like Russia and Latin America for coir mats and pith, which cluster firms need to tap. However for any exports firms need to understand international quality norms and upgrade their facilities accordingly.*

GUNDAKANAHALLI COIR CLUSTER (MINOR)

4.1 Cluster SWOT

The SWOT analysis of the Cluster is based on the status of the cluster, production process and market analysis.

4.1.1 Strength

- Abundance of raw material
- Presence of state coir corporation and federation which have technical knowhow and experience
- Huge market demand for the coir, coir pith products.
- Established local market channels
- Most of the units are having mechanised defibering and curling machines.
- There is no shortage of labour as the coir industry is well established in the area.
- Availability of requisite logistics and physical infrastructure facilities

4.1.2 Weakness

- Limited or nil utilization of pith.
- Limited efforts on value added products like matting, pith block making and pith manure to capture wider markets.
- Lack of proper infrastructural facilities for mat making, pith block/ manure making, resulting in heavy dependency on one or two products.
- Limited skill sets of workers with reference to advanced pith product making, yarn making and mats and mattings making
- Poor linkage with banks and FIs
- Limited awareness on Government Schemes like Coir Udyami Yojana, NMCP, CLCSS, and CGTMSE etc.
- Limited market skills with specific reference to export market procedures
- Lack of awareness on quality standards on coir industry
- Limited entrepreneurial skills among unit holders and artisans
- Absence of linkage with support institutions mainly to artisans
- Linkage with BDS providers is absent

GUNDAKANAHALLI COIR CLUSTER (MINOR)

4.1.3 Opportunities

- Growing market demand for eco-friendly value added coir products like pith blocks, manure etc.
- Growing demand for curled coir from mattress making sub sector
- Huge local demand for mats and global demand for mattings
- Presence of latest technologies for pith blocks manufacturing, whereby lignin content is removed using R.O system water.
- Presence of coir specific Technical Institutions like CCRI
- Availability of advanced machinery in spinning, mat making and pith block making in the market at reasonable prices
- Presence of sector specific promotional agencies like Coir Board, CCRI, FICEA to help in the areas of grant, soft loans, market promotion and skill development.
- Coir Board is ready to support with cluster programme
- Young entrepreneurs are eager to enter the coir industry.
- The climate is conducive for coir pith production since the area has only two months of rain in an year

4.1.4 Threats/ Challenges

- Coconut plantations are highly prone to pests and crop diseases.
- There is high degree of competition in the market for value added products in coir.
- Machinery required for pith processing is quite expensive and is mostly imported.
- Best quality pith blocks production is water intensive, requiring the cleanest water, preferably R.O treated.
- Industry is adversely affected by frequent fluctuations in husk prices.

4.2 Need Gap Analysis

4.2.1 Technology

There are very limited facilities for value added products like pith block making and manure making mainly due to their capital intensive nature, which individual firms cannot afford. Even the mat and matting facilities are mainly confined to units run by corporation and federation. Lack of finance and awareness are the major issues for restricted product mix. Thus there is a need to establish pith block and manure making units in all the sub

GUNDAKANAHALLI COIR CLUSTER (MINOR)

clusters. Similarly there is also a need to upgrade/ establish 2 & 3 ply yarn making, mat and matting making based on the requirement and interest among the sub cluster groups.

4.2.2 Marketing

Fibre and curled ropes are provided to traders and export agents and there is no direct marketing of products except to the *Kurl-on* outlet. Karnataka Coir Federation units are producing many value added products in comparison to private units, but they have very low market visibility and are available only at the federation outlets in the state.

Since there is a huge demand for pith blocks abroad, there is a need to organise training on market development. There is also a need to link with end users like Kurl On for curled rope, D Mart, Big bazaar, Metro for mats, ecommerce portals like Alibaba, Indiamart, Pepperfry, for sale of mats and mattings, yarn etc.

4.2.3 Finance

Canara Bank and State Bank of Mysore are the major banks approached for availing loans. There is a need to impart training on financial management and training to the unit owners by organizing EDPs. There is also a need to organise an awareness workshop on Public Support Schemes with the help of NABARD, KVIC, MSMEDI, and local DIC.

4.2.5 Quality

For 2 ply coir yarn made manually, the cluster firms are required to follow IS 14596 and for other coir products IS 2295 have been framed. There is also IS 1410: 2001 for coir ropes. Similarly there is an IS 11420 for coir mats. Even to make coir pith DOC.TXD 25 (1164), the standards are under making by BIS. Unless the cluster forms won't understand the specifications and standards of BIS, their chances of exporting and supplying to major market chains will be difficult. Thus there is a need to educate cluster firms on quality standards with the help of CCTRI through a training program.

4.2.6 Linkage with Institutions:

At present the cluster firms are having linkage only with Coir Board. There is a need to link them with CCTRI for quality skill up gradation, FICEA for export market promotion,

GUNDAKANAHALLI COIR CLUSTER (MINOR)

MSME-DI for leveraging NMCP scheme, Banks not only to avail credit facility but also benefit under CGTMSE, DIC for EM registration and availing state schemes, NABARD to avail schemes like Rural Mart, UPNRM.

4.2.3 Suggested Market Plan for the Cluster

Business model of CFC: The CFC will produce mats, curled coir , 2 and 3 ply yarn and mats .The estimated aggregate annual production of mats is 12,000 units, of curled coir is 99 tonnes and of 2 and 3 ply yarn is 480 and 240 tonnes in optimal year of operation (3rd year). The expected segment wise consumption of the products is given in the following tables:

CURLED COIR

The CFC is estimated to produce 99 Tons of curled coir which has good demand in domestic markets from mattress making units. The stakeholders have already held discussions with Kurlon and Duroflex Bangalore, who have mattress making plants in Karnataka and have expressed desire to buy the material provided quality is maintained as per their specifications.

| | Curled coir | | Expected consumption (In MTs) |
|-----------------------|----------------------------|----------------------|-------------------------------|
| | Potential Customers | | |
| Market Channel | Pan India Level | Kurlon - Bangalore | 99 |
| | | Duroflex - Bangalore | |
| | | | |

MATS

The clusters are estimated to produce 12000 Nos. of Mats, which has good demand in local markets. There is a good demand from super market chains. In addition to super markets the private departmental stores and handloom and handicraft showrooms of Govt. and other Quasi-Govt. agencies are also potential buyers. SPVs are also contemplating to sell online by registering with portals like Trade India and India Mart.

GUNDAKANAHALLI COIR CLUSTER (MINOR)

Linkages can be established with these supermarket chains through coir mat traders as mentioned below:

| Coir Mats | | | Expected consumption (In No's) |
|---------------------|-----------------|--|--------------------------------|
| Potential Customers | | | |
| Market Channel | Pan India Level | Gaurav Enterprises, Pune | 8000 |
| | | S.P.P Enterprises, Madurai | |
| | | Bharat Mat Bazar, Kholapur | |
| | | Karnataka State Coir Co-op Federation Ltd. | |
| | Online | Come Trade | 4000 |
| | | Tradeindia.com | |
| | | Indiamart | |
| | | Paytm | |
| Total | | | 12000 |

2 PLY & 3 Ply Yarn

The CFC is estimated to produce 480 MT of 2 Ply Yarn. It has a ready demand in the local market from packaging and construction sectors. Hence almost the entire stock can be supplied to local traders with whom stake holders have already established a network. Besides this, there is demand from Sivaganga and Salem coir clusters in Tamil Nadu and traders from Kerala who require it for manufacture of tufted mats. 3 Ply yarn is mainly consumed for making of ropes. The estimated production of 3 ply yarn from CFC is 240 MT.

The segment wise estimated distribution of 2 Ply Yarn is given as below:

| 2 Ply & 3 Ply Yarn | | | Expected consumption (MTs) |
|---------------------|-----------------|--|----------------------------|
| Potential Customers | | | |
| Market Channel | Local | 1 Local Market Traders – Arsikere | 500 |
| | | 2 Local Market Traders – Tumkur | |
| | | 3 Local Market Traders – Bangalore | |
| | Pan India Level | Tufted mats manufacturers of Salem and Sivaganga | 220 |
| | | Total | 720 |

5.1 Institutional Structure

The Karnataka State Coir Co-Operative Federation was established in the year 1961 with the main objective of developing coir industry through co-operative movement in Karnataka state. This Federation is having 72 primary coir Co-operative societies as its affiliated member societies. There are more than 17 production centre where in all coir products are manufactured apart from this as per the customer demand, new varieties of coir products are also manufactured and sold. The Federation is also having 14 sales outlets and 3 Mobile sales van wherein different types of coir mats, matting cushions, rubberized mattresses, pillows etc. are display and sold.

The Federation is having godown facilities for storage and security of coir products at Bangalore and Arsikere. The Main manufacturing activities are coir fibre (Brown fibre and green husk fibre). Mats Matting, Geo-textiles, Curled coir required for Rubberized coir industry and other value added products. The Federation has provided employment to about 1500 unskilled persons in rural area out of which 90% are women. The main objective of the Federation is as follows:-

- To assist and support primary coir Co-operative societies.
- To provide Training.
- Supply of raw- materials
- Marketing of coir products
- Technical guidance

5.2 Governance Structure

The Organisational structure reflects Board of Directors, headed by President with 11 more members. At present Shri Hanumanta Gowda is the President of the federation. The Board of Directors is ably assisted by Office Staff headed by Managing Director.

5.3 Operational Profile

GUNDAKANAHALLI COIR CLUSTER (MINOR)

The regular operations are take care by office 48 member office staff, headed by Managing Director, who will not only take care of HO operations but also field offices and sales outlets. The federation has 5 sales managers, 15 Coir Supervisors of grade I and II based on their seniority, 2 depot managers, other than support staff.

5.4 Management Profile

The Board of Directors will take care of overall administration, while Managing Director along with staff will be take care the operational part. Each member of the federation has been entrusted with a specific task like marketing, input procurement, finance, training, raat procurement, product/ quality up gradation.

The Board of Directors has been supported by Secretarial staff, which will take care of operational management at ground level, besides sales operations. Dr. H.R. Arun Kumar is present Managing Director of the Federation who has vast experience in textile and coir industry.

The Federation is having 16 production centres spread across the state, with each one headed by an official of Superintendent/ Supervisor rank person.

5.5 Financial Position

The Federation is aiming for 6crore sales turnover during the current year. The Federation is having a Fixed Asset of Rs.2, 54, 50,670 and Paid-Up Share Capital is Rs.329.22lakhs out of which, share capital from state government is Rs.329.00lakhs.

PROJECT CONCEPT AND STRATEGY FRAMEWORK

6.1 Project Rationale, frame work and strategy

There are 4 major coir production regions in Hassan District. All the four regions have unique issues and also few common problems related to finance and cluster concepts, other than hard interventions. Thus there is a need to stress on soft interventions at the initial stage so as to improve the capacities of the cluster, which will propel them to establish and run requisite hard interventions in a sustainable way. While some of the issues will be met through organising few common activities like bankers meets, exposure visits, EDPs etc. others will be through requisite hard interventions.

Hard interventions will be addressed, only after the implementation of important basic level soft interventions as second phase preferably in the 2nd year, so as to make the project a sustainable venture. Once the soft and hard interventions are completed based on the additional requirement, leveraging of other public support schemes may be planned.

Gundakanahalli: There are 10 major units employing around 350 artisans and there are also around 140 workers in the cluster. In Gundakanahalli, fibre and curled rope are the only products manufactured (through semi-automated process) and none of the units are going in for any further value addition or diversification like curled rope or matting. Due to this, profit margins are low and highly variable.

For Gundakanahalli, their need and requirement is for curled coir rope, 2 and 3 ply yarn and coir pith processing and hence the necessary SDPs have to be organised for these. Once capacity building through the SDPs have been achieved, CFCs can be set up for 2 and 3 ply yarn spinning, pith processing and mat making frames.

Other than the pith block, 2 & 3 ply yarn, Gundakanahalli cluster firms also interested in making of mattings, which is capital intensive and can be planned as long term objective as convergence initiative. The proposed facility can be established by availing credit facility from State Bank of Mysore, where the SPV is having account.

GUNDAKANAHALLI COIR CLUSTER (MINOR)

The cluster firms are not aware of cluster concepts with limited inter member trust, limited awareness on government schemes like NMCP, CLCSSS, CGTMSE etc. The linkage with banks and FIs are also limited. Lack of entrepreneurial capabilities is one of the reasons for their limited linkage with banks and limited market penetration. They also lack awareness on export policies and procedures. Thus there is a need to implement few soft interventions at cluster level like organising EDPs, awareness workshop on government schemes, interface with banks and exposure visit to Polachi in TN. These interventions are planned in the first year itself and will be organised at Gundakanahalli which is the central point for the cluster.

6.2 Project Objective

Major objectives of implementing SFURTI in the cluster are:

- The address the issues of each sub cluster based on their requirement, need and products manufactured, which ultimately strengthen the cluster per se.
- To improve the aggregate cluster production by introducing part mechanisation and up gradation of existing equipment.
- To improve the social capital of the cluster by capacitating the IA and SPV.
- To establish requisite Common Facilities for value added products
- To strengthen linkages of cluster firms with support institutions and relevant BDSPs so as to make the proposed interventions sustainable
- To encourage direct marketing by cluster firms instead of existing trader controlled sales
- To improve entrepreneurial skills of principal stakeholders so as to gain confidence to opt for export marketing besides improving linkages with banks and FIs

6.3 Focus Products/ Services

Mat making and 2 ply yarn or additional focus products for Arisikere. 3 Ply Yarn and matting are the focus products planned as long term objective in Arisikere. Following table shows main focus products:

| S.No | Name of Cluster | Focus products |
|------|-----------------|----------------------------|
| 1 | Gundakanahalli | Mats, 2 ply and 3 ply yarn |

Part – II

CHAPTER – 7

PROJECT INTERVENTIONS

7.1 Soft Interventions

| Training Programmes & SDPS | | | | |
|--|---|---------|---|--|
| 1 | 4 week training on 2 Ply & 3 Ply yarn making (1No) | Q2-Q3 | 40 workers and major manufacturers | 40 participants will be trained in yarn making |
| 2 | 2 week training program on mats making (1 No's) | Q3 - Q4 | 30 artisans | 30 artisans trained in mats making |
| 2. Trust Building | | | | |
| 3 | Launch workshop | Q1 | 50 cluster firms and artisans from 4 sub clusters | Information dissemination regarding launch of CDP in the cluster |
| 4 | Study tour to Polachi Cluster | Q2 | 15 manufacturers, artisans including members of IA/ SPV and CDA | Stakeholders to understand better self-governance mechanisms, direct marketing |
| 5 | Organising 2 EDPs | Q3 | 40 entrepreneurs and household units | 40 participants will adopt better management practices |
| 2. Building Awareness on various Government Schemes | | | | |
| 6 | Awareness Workshop on Government Schemes (2Nos) | Q2 | 50 manufacturers and household units | At least 50 firms get awareness on various schemes like PMEGP, NMCP, CGTSME |
| 7 | Interface with Bankers (2No's) | Q2-Q3 | 60 manufacturers and household units | 60 stakeholders to understand banking procedures and documentation |
| 4. Marketing | | | | |
| 8 | Launching of cluster level Website | Q5-Q6 | All cluster firms and artisans | For promotion of products through e-commerce |
| 9 | Organising buyer-seller meet at Arisikere (2nos) | Q5-Q6 | 40 member and non-member manufacturing units | Help the principle firms to understand buyer requirements and led to direct marketing. |

7.2 Hard Interventions

Common value addition centre

GUNDAKANAHALLI COIR CLUSTER (MINOR)

The cluster firms are planning to establish a processing centre for making of 2 and 3 ply yarns, mats and mattings. AT present cluster firms are mainly depending on fibre for marketing which is a basic raw material with minimum profit margins. If cluster firms could able to make 2 ply yarn, their income may increase by 100% and turnover by 150%, thus make these units and depending artisans self-sufficient without seasonality.

30no's 2 Ply yarn making machines and 15No's of 3 ply yarn making, door mat making frame looms (5Nos), accessories are the major machinery requirements. The facility will also have a quality testing lab which is essential for all pith making units. The entire machinery cost is coming to Rs. 72.88 lakhs

All the products like ply yarn will be sold on common brand by the SPV.

Detailing of soft interventions as per the suggested guidelines is given as below:

8.1 Common interventions

8.1.1 Proposed Program: Launch Workshop

Course outline: To make cluster stakeholders aware of the proposed activities and their expected outcomes.

Duration: Half day

Batch Size: 50 cluster firms including manufacturers, house hold units, and workers

Trainers and their details: Not applicable

Training deliver method: Not applicable

Details of infrastructure required: Excepting a venue, projector and LCD no other infrastructure is required

Availability of Infrastructure: Karnataka Coir Federation is having hall which will be used for organising the event.

Cost of training program:

| | |
|--|---------------|
| Venue Cost | 2000 |
| Local TA/ DA | 5000 |
| Refreshments 50 persons @ Rs. 200 per head | 10000 |
| Photo & Video expenses, LCD & Projector Expenses | 10000 |
| Literature | 3000 |
| Total | 30,000 |

8.1.2 Proposed Program: Study tour to Polachi Cluster

Course outline: Stakeholders to understand better self-governance mechanisms, direct marketing

Duration: 2 days

Batch Size: 15 manufacturers, artisans including members of IA/ SPV and CDA

Trainers and their details: Not applicable

Training deliver method: Not applicable

Details of infrastructure required: Not applicable

Availability of Infrastructure: Not applicable

Cost of training program:

GUNDAKANAHALLI COIR CLUSTER (MINOR)

| Organising Study tour to Polachi | |
|--|--------------|
| travel expenses 15 SPV/ IA members other than CDA@ Rs. 2000 per head | 30000 |
| Lodging & Boarding for members @ Rs. 1500 per head x 1 days | 45000 |
| Misc. expenses incl. local transport | 10000 |
| Total | 85000 |

8.1.3 Proposed Program: Interface with Bankers (2Nos)

Course outline: Stakeholders to understand banking procedures and documentation

Duration: One day each

Batch Size: 60 manufacturers and household units

Trainers and their details: Not applicable

Training delivery method: Not applicable

Details of infrastructure required: Excepting a venue, projector and LCD no other infrastructure is required

Availability of Infrastructure: Karnataka Coir Federation is having hall which will be used for organising the event.

Cost of training program:

| Interface with bankers | |
|--|--------------|
| Venue Cost | 2000 |
| Local TA/ DA | 6000 |
| Refreshments 40 persons @ Rs. 200 per head | 8000 |
| Photo & Video expenses, LCD, Projector | 10000 |
| Literature | 4000 |
| Total | 30000 |
| For 2 Nos. | 60000 |

8.1.4 Proposed Program: Awareness Workshop on Government Schemes

Course outline: 60 firms get awareness on various schemes like PMEGP, NMCP, and CGTSME

Duration: One day

Batch Size: 60 manufacturers and household units

Trainers and their details: Not applicable

Training delivery method: Not applicable

GUNDAKANAHALLI COIR CLUSTER (MINOR)

Details of infrastructure required: Excepting a venue, projector and LCD no other infrastructure is required

Availability of Infrastructure: Karnataka Coir Federation is having hall which will be used for organising the event.

Cost of training program:

| 3. Awareness Workshop on Govt. schemes | |
|---|--------------|
| Venue Cost | 2000 |
| Local TA/ DA | 5000 |
| Refreshments 50 persons @ Rs. 200 per head | 10000 |
| Photo & Video expenses, LCD & Projector | 6000 |
| Literature | 2000 |
| Total | 25000 |
| For 2 No's | 50000 |

8.1.5 Proposed Program: E Commerce Portal

Course outline: For promotion of products through e-commerce

Duration: Continuous dynamic website

Batch Size: Not applicable

Trainers and their details: Not applicable

Training delivery method: Not applicable

Details of infrastructure required: Not applicable

Availability of Infrastructure: Not applicable

Method of selection of consultant: selection of consultant will be done in bidding process.

Cost of program: 2.00 lakhs as BDSP fees

8.1.60 Proposed Program: Organising Buyer Seller Meets (2nos)

Course outline: Help the principle firms to understand buyer requirements and led to direct marketing.

Duration: One day

Batch Size: 20

Trainers and their details: Not applicable

Training delivery method: Not applicable

GUNDAKANAHALLI COIR CLUSTER (MINOR)

Details of infrastructure required: Venue, LCD, Projector, Tables and Chairs, partitions

Availability of Infrastructure: Will be organised in a hotel at Arisikere

Method of selection of trainer: Not applicable

Cost of training program:

| Organising BSMs | |
|--|--------|
| Venue Cost | 20000 |
| Local TA/ DA | 10000 |
| Travel | 20000 |
| Refreshments 50 persons @ Rs. 300 per head | 15000 |
| Photo & Video expenses | 20000 |
| Literature | 15000 |
| Total | 100000 |
| For 2 meets | 200000 |

8.1.7 Proposed Program: Organising EDP

Course outline: Capacitate principle firm owners in better management practices.

Duration: 3 days

Batch Size: 25

Trainers and their details: Not applicable

Training delivery method: Not applicable

Details of infrastructure required: Venue, LCD, Projector, Tables and Chairs, partitions

Availability of Infrastructure: Will be organised in conference hall of Karnataka Coir Federation

Method of selection of trainer: EDII, Bangalore will be hired to organise EDPs, due to their vast experience in the field.

Cost of training program:

| Organising EDPs | |
|---|-------|
| Venue Cost | 5000 |
| Local TA/ DA | 5000 |
| Travel | 5000 |
| Refreshments 30 persons @ Rs. 100 per head x 3 days | 6000 |
| Photo & Video expenses, CLD, Projector | 10000 |
| Literature | 4000 |
| Total | 35000 |

8.1.8 Proposed Program: 4 week training program on ply yarn making

GUNDAKANAHALLI COIR CLUSTER (MINOR)

Course outline: 60 workers and major manufacturers of Arisikere

Duration: Four weeks each

Batch Size: 40

Trainers and their details: The Central Coir Research Institute is one of the prime research centres of Coir Board (Recognised by the Department of Science & Technology, Government of India).The Institute has infrastructure for imparting training to students to acquire in depth knowledge in the processing of coir and coir products. Hence it will also provide training sessions on 2 ply yarn making.

Training delivery method: Class room sessions followed by practical sessions on machines

Details of infrastructure required: Venue (preferably at campus), LCD, Projector, Tables and Chairs

Availability of Infrastructure: Venue (preferably at campus), LCD, Projector, Tables and Chairs

Method of selection of trainer: As per the norms, selection of trainers has to be done in bidding process. However coir based institutions is limited as such direct selection is preferred.

Cost of training program:

| | |
|--|-----------------|
| Venue Cost | 20,000 |
| travel expenses for faculty | 10,000 |
| Local TA/ DA | 10,000 |
| Stifund for participants 40 persons @ Rs. 150 per head x 10 days | 60,000 |
| Refreshments 40 persons @ Rs. 150 per head x 10 days | 60,000 |
| Faculty Fees | 30,000 |
| Photo & Video expenses | 10,000 |
| Literature & Misc. expenses | 10,000 |
| Total | 2,10,000 |
| For 3No's | 6,30,000 |

8.1.9 Proposed Program: 2 week training program on mats making

Course outline: 30 artisans from Arisikere

Duration: Two weeks

Batch Size: 30

GUNDAKANAHALLI COIR CLUSTER (MINOR)

Trainers and their details: : The Central Coir Research Institute is one of the prime research centre of Coir Board (Recognised by the Department of Science & Technology, Government of India).The Institute has infrastructure for imparting training to students to acquire in depth knowledge in the processing of coir and coir products. Hence it will also provide training sessions on mats and mat making.

Training delivery method: Class room as well as practical sessions on machinery.

Details of infrastructure required: Venue, Tables and Chairs

Availability of Infrastructure: Venue (preferably at campus), LCD, Projector, Tables and Chairs

Method of selection of trainer: As per the norms, selection of trainers has to be done in bidding process.

Cost of training program:

| | |
|--|-----------------|
| Venue Cost | 20000 |
| travel expenses for faculty | 10000 |
| Local TA/ DA | 20000 |
| Stifund for participants 30 persons @ Rs. 150 per head x 10 days | 45000 |
| Refreshments 30 persons @ Rs. 150 per head x 10 days | 45000 |
| Faculty Fees | 10000 |
| Photo & Video expenses | 10000 |
| Literature & Misc. expenses | 10000 |
| Total | 1,70,000 |
| 2 No's | 3,40,000 |

Activity wise budget for Soft Intervention Action Plan is given as below:

| S No. | Name of activity | Timeline | GOI Grant | State Contribution | SH contribution | Total required Fund |
|--|--|----------|-----------|--------------------|-----------------|---------------------|
| A. Common cluster level interventions | | | | | | |
| 1 | Launch Workshop | Q1 | 0.3 | 0 | 0 | 0.3 |
| 2 | Study tour to Pollachi | Q1 | 0.85 | 0 | 0 | 0.85 |
| 3 | Interface with bankers | Q2-Q3 | 0.60 | 0 | 0 | 0.60 |
| 4 | Awareness workshop on Govt. Schemes (2 No's) | Q2-Q3 | 0.50 | 0 | 0 | 0.50 |
| 5 | Proposed: E Commerce portal | Q5-Q6 | 2.00 | 0 | 0 | 2.00 |

GUNDAKANAHALLI COIR CLUSTER (MINOR)

| | | | | | | |
|---|---|-------|--------------|----------|----------|--------------|
| 6 | Proposed: Organising BSMs (2 No's) | Q5-Q6 | 2.00 | 0 | 0 | 2.00 |
| 7 | Proposed: Organising 2 EDPs | Q2-Q3 | 0.35 | 0 | 0 | 0.35 |
| 8 | 4 week training on 2 & 3 Ply yarn making (2 No) | Q2-Q3 | 6.30 | 0 | 0 | 6.30 |
| 9 | 2 week training on mats making (2 No's) | Q3-Q4 | 3.40 | 0 | 0 | 3.40 |
| | TOTAL | | 16.30 | 0 | 0 | 16.30 |

9.1 Common Processing Centre (CPC):

Proposed intervention

At present the cluster firms are mainly making only fibre and there is a need to opt for value addition/ product diversification. Considering the local market demand and skill sets of workers, it has been planned to make mats, 2 and 3 ply yarn. Yarn making (2& 3 Ply) machines for yarn, frame looms for mat making, are the major machinery required for the unit.

Land details

1.5 acres of commercial land is available with one of the key members of the cluster. The address of the land is Mysore Road, Arisikere, Hassan District. Power and ground water are already available in the land.

Proposed capacities

1. 2 Ply Yarn Machine: 10 KG machines of 30No's making 2400 KGS per day of 2 Ply Yarn.
2. 3 Ply Yarn machine: 10 KG per hour machine of 15No's making 1200 KGs per day of 3 ply yarn.
3. Frame Looms: 5 Frame looms of 100 mats per day each is considered.

Proposed equipment's/ machines etc.

Details of machines are given as below:

| S.No. | Name of the machinery | capacity | qty | Total Amount |
|--------------------------------|-----------------------|-------------------------|-----|--------------|
| Common Processing entre | | | | |
| 1 | 2 Ply machine | 10 KG per hour per M/c | 30 | 4050000 |
| 2 | 3 Ply machine | 10 KG per hour per M/c | 15 | 2268000 |
| 3 | Frame Looms | 20 Mats per Day per M/c | 5 | 270000 |

GUNDAKANAHALLI COIR CLUSTER (MINOR)

| | | | | |
|---|----------------------|--|---|----------------|
| 6 | Well & Pump set | | 1 | 399600 |
| 7 | Electrical cabling | | | 300000 |
| | Sub Total - 1 | | | 7287600 |

Master Plan/ Detailed engineering drawings

A detailed master plan along with civil estimates are given as **annexure – 60**

Project Cost

| Sl.No | Particulars | Already incurred | To be incurred | Total Cost |
|-------|-------------------------------------|------------------|----------------|------------|
| A | Land | - | - | - |
| | land Development | - | - | - |
| B | Building & other Civil Works | - | 31.00 | 31.00 |
| C | Plant and machinery | | | |
| | a. indigenous | - | 72.88 | 72.88 |
| | b.import | - | - | - |
| D | Lease Deposit & Electricity Deposit | - | 2.00 | 2.00 |
| E | Technical consultancy fee | - | - | - |
| F | Miscellaneous fixed assets | - | 2.05 | 2.05 |
| G | Erection / installation charges | - | - | - |
| H | Preliminary expenses | - | 0.50 | 0.50 |
| I | Pre-operative expenses | - | 2.00 | 2.00 |
| J | Provision for contingencies | | | |
| | a.buildings (@2%) | - | 0.62 | 0.62 |
| | b.Plant & Machinery (5%) | - | 3.64 | 3.64 |
| | c.Other fixed assets | - | - | - |
| K | Working capital | - | 15.97 | 15.97 |
| | Total : | - | 130.66 | 130.66 |

GUNDAKANAHALLI COIR CLUSTER (MINOR)

Operation and maintenance model

Production basis: To make the facility more sustainable, entire capacity will be sold on common brand basis, where SPV itself will buy the raw material and sell the mats, mattings, directly to clients, mats at the rate of Rs. 60 per mat, 2 Ply yarn at the rate of Rs. 25 per KG and 3 Ply yarn at Rs. 30 per KG.

The unit is expected to generate revenue of Rs. 129.0 lakhs and production costs of Rs. 106.60lakhs, thus giving Rs. 14.01 lakhs as surplus in the first year of operation.

Business Plan

The business plans of each sub cluster are given in the detailed business plan Chapter (No: 14).

Implementation schedule

The civil construction is expected to be complete second quarter of the second year of the project implementation. Purchase and erection of machinery will be done by third quarter of 2nd year and plant is expected to start its commercial operations by end of second year. It is expected to reach breakeven in the first year of operation.

Any other information pertaining to the project

The facility will be used not only for major manufacturers but also by house hold units.

PROJECT COST AND MEANS OF FINANCE

10.1 Project Cost

The cost of project include cost of implementing Soft Interventions, Hard Interventions, IA fees and TA fees with a total project span of 3 years. However for SI and HI the aggregate project costs are given. Following table shows the aggregate cost of project:

| Aggregate Project Cost | | Rs.In lakhs |
|--------------------------------------|-------------------------------------|---------------|
| Sl.No | Particulars | Total Cost |
| I. Hard Interventions | | |
| A | Land | - |
| | land Development | 0.00 |
| B | Building & other Civil Works | 31.00 |
| C | Plant and machinery | - |
| | a. indigenous | 72.88 |
| | b.import | - |
| D | Lease Deposit &Electricity Deposit | 2.00 |
| E | Technical consultancy fee | - |
| F | Miscellaneous fixed assets | 2.05 |
| G | Erection / installation charges | - |
| H | Preliminary expenses | 0.50 |
| I | Pre-operative expenses | 2.00 |
| J | Provision for contingencies | - |
| | a.buildings (@2%) | 0.62 |
| | b.Plant& Machinery (5%) | 3.64 |
| K | Working capital | 15.97 |
| | Total for Hard Interventions | 130.66 |
| II. Provision for Soft Interventions | | 16.30 |
| III. IA Fees | | 20.00 |
| IV. TA Fees (SI + HI) | | 9.14 |
| Total (I+II+III+IV) | | 176.11 |

GUNDAKANAHALLI COIR CLUSTER (MINOR)

10.2 Means of Finance

Means of finance is mainly confined to SFURTI Grant and Promoter's equity. Promoters are willing to contribute on their own and are not taking any unsecured loans for the project. Thus the details of means of finance are given as below:

| Means of Finance | | |
|-------------------------|------------------------------|---------------|
| Sl.No. | Particulars | Total |
| | Equity | |
| A | Equity from SPV | 32.67 |
| B | Subsidy: central govt. (75%) | 143.44 |
| C | Subsidy : state govt. | - |
| | Total | 176.11 |

As per the guidelines 100% grant is considered for implementation of SI plan. For Hard interventions 75% grant is considered. Remaining 25% will be brought by IA through SPVs as their contribution. IA fee is coming to Rs. 20.00 lakhs which is within maximum cap of Rs. 20.00 lakhs. TA fees are calculated as 8% of SI+HI and are coming to Rs. 9.14 lakhs. Thus the total project cost is coming to 176.11 lakhs in which GoI grant is 143.44lakhs, which is with in maximum cap for Minor Cluster i.e. Rs. 150lakhs.

10.3 Project Phasing

As indicated, project will be implemented in 2 years of time. While first year concentration will be more on implementation of hard interventions and initiation of SI, the second year will not only completion of SI but also completion of CFCs. Accordingly the following phasing has been suggested:

GUNDAKANAHALLI COIR CLUSTER (MINOR)

| SI.No | Particulars | 1st Year | 2nd Year | 3rd Year | Total |
|----------|---|-----------------|-----------------|-----------------|--------------|
| A | Land (Lease) | 0.00 | 0.00 | 0.00 | 0.00 |
| | land Development | 0.00 | 0.00 | 0.00 | 0.00 |
| B | Building & other Civil Works | | | | 0.00 |
| | Civil Works | 9.30 | 21.70 | 0.00 | 31.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 |
| C | Plant and machinery | | | | |
| | a. indigenous | 36.44 | 36.44 | | 72.88 |
| | b.import | | | | |
| D | Lease Deposit &Electricity Deposit | 2.00 | 0.00 | 0.00 | 2.00 |
| E | Technical consultancy fee | | | | |
| F | Miscellaneous fixed assets | 0.00 | 2.05 | 0.00 | 2.05 |
| G | Erection / installation charges | 0.00 | 0.00 | 0.00 | 0.00 |
| H | Preliminary expenses | 0.25 | 0.25 | | 0.50 |
| I | Pre-operative expenses | 1.00 | 1.00 | | 2.00 |
| J | Provision for contingencies | | | | |
| | a.buildings (@2%) | 0.00 | 0.62 | | 0.62 |
| | b.Plant & Machinery (10%) | 2.55 | 1.09 | | 3.64 |
| | c.Other fixed assets | 0.00 | 0.00 | 0.00 | 0.00 |
| K | Working capital | 0.00 | 15.97 | | 15.97 |
| | | | | | |
| G | Provision for Soft Interventions | 8.15 | 8.15 | 0.00 | 16.30 |
| | | | | | |
| H | IA Fees | 6.60 | 6.70 | 6.70 | 20.00 |
| | | | | | |
| I | TA Fees (75% of SI+HI) | 3.05 | 3.05 | 3.05 | 9.14 |
| | | | | | |
| | Total | 69.34 | 97.02 | 9.75 | 176.11 |
| | | | | | |
| | | 1st Year | 2nd Year | 3rd Year | Total |
| I. | Gol Grantunder SFURTI | 56.45 | 77.24 | 9.75 | 143.44 |
| II. | State Contribution if any | 0.00 | 0.00 | 0.00 | 0.00 |
| III. | Promoters Equity | | | | |
| | Own Sources | 12.88 | 19.78 | 0.00 | 32.67 |
| | Unsecured loans | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | | 69.34 | 97.02 | 9.75 | 176.11 |

CHAPTER 11

PLAN FOR CONVERGENCE OF INITIATIVES

During the survey it was observed that there are many house hold artisans who have zeal to establish their own defibering, and mat making units. These artisans once capacitated with planned SDPs, need to be encouraged to apply under Coir Udyami Yojana and PMEGP Scheme. Thus in the second and third year at least 10 capable artisans will be targeted to be covered under such schemes.

The common convergence activities planned and their tentative estimates are given as below:

| S.No | Activity | Number of firms/artisans targeted | Tentative project Cost (In Rs.) | Scheme contribution | Bank Loan | Promoter Contribution |
|------|--|-----------------------------------|---------------------------------------|---------------------|-----------|-----------------------|
| 1 | Establishment of defibering/ mat making units by artisans under Coir Udyami Yojana | 10 | 30 Nos. x Rs. 5,00,000 = Rs.50,00,000 | 20,00,000 | 25,00,000 | 5,00,000 |

11.2.2 Gundakanahalli

At present the cluster members are not making any matting. Immediate focus products are 2 & 3 ply yarn, mats, curled rope, pith block and manure. However once the manufacturing and marketing of these products were stabilised, the SPV is willing to explore the market for mattings, which have huge demand in Latin American and European countries, which opts for eco-friendly products.

Thus the SPV is planning to establish a matting power loom unit within the CFC premises at the end of the third year. The facility will house 2 matting power looms of Godwell make, which costs Rs. 10, 00,000. The detailed civil estimate is given as below:

GUNDAKANAHALLI COIR CLUSTER (MINOR)

| S. No | Name of the Activity | Bank Loan | Grant | Stake Holders Contribution | Total Cost |
|-------|--|-----------|-------|----------------------------|------------|
| 1 | Common Facility Centre for Matting Making 1. Civil alterations = Rs. 1.00 lakhs 2. Plant & Machinery Cost = 2 power looms @ Rs. 5.00 lakhs each = Rs. 10.00 lakhs 3. Working Capital Costs = Rs. 5.00 lakhs 4. Total = Rs. 20.00 lakhs | 15.00 | 0.00 | 5.00 | 20.00 |

Revenue generation mechanism: The SPV will make mattings, and sell on its common brand name, and pass on profit margins to concerned members on pro rata basis.

ENHANCED PROJECT COST WITH CONVERGENCE OF SCHEMES

Overall project cost which is including grant under SFURTI, Stakeholder contribution, and co-founding by MoMSME (MDA Scheme), Coir Board (Coir Udyami Yojana), as grant, which is given as below. A component wise break up is give as per the format.

(Rs. In lakhs)

| S.No | Component | Total | Grant under SFURTI | Bank Finance | State Contribution | Grant from other schemes (PMEGP, CUY, MDA) | Stakeholder Contribution |
|------|--|--------------|--------------------|--------------|--------------------|--|--------------------------|
| 1 | Soft Interventions | 16.30 | 16.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | Hard Interventions (under Core SFURTI) | 130.66 | 98.00 | 0.00 | 0.00 | 0.00 | 32.67 |
| 3 | Convergence under common umbrella (establishment of new units) | 50.00 | 0 | 25.00 | 0.00 | 20.00 | 5.00 |
| 4 B | Establishment of matting unit | 20.00 | 0.00 | 15.00 | 0 | 0 | 5.00 |
| 5 | IA Fees | 20.00 | 20.00 | 0 | 0 | 0 | 0 |
| 6 | Technical Agency Fees | 9.14 | 9.14 | 0 | 0 | 0 | 0 |
| | Total | 246.1 | 143.44 | 40.00 | 0.0 | 20.00 | 42.67 |

Thus out of a total of 246.10lacs as project cost, SFURTI contribution is coming to 53%, Stake Holders contribution is coming to 19% and remaining 28% is shared by Grant under various schemes, besides bank loan.

CHAPTER – 13
PROJECT TIMELINE

The project implementation schedule with details of activities to be undertaken are given in the following chart based on the project phasing as given in the chapter – 8.

| Project Activity | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| 1. Preparation and submission of DPR for proposed HI under SFURTI | | | | | | | | | | | | |
| 2. Implementation of Trust Building activities under SI | | | | | | | | | | | | |
| 3. Implementation of trainings/ SDPs under SI | | | | | | | | | | | | |
| 4. Capacity building initiatives for Self Governance under SI | | | | | | | | | | | | |
| 5. Market Promotion Activities under SI | | | | | | | | | | | | |
| 6. Civil construction of planned HIs under Core SFURTI | | | | | | | | | | | | |
| 7. Erection of machinery and cabling | | | | | | | | | | | | |
| 8. Initiation of commercial production of CFCs | | | | | | | | | | | | |
| 9. Convergence initiatives | | | | | | | | | | | | |
| 10 Exit from the cluster by TA and IA | | | | | | | | | | | | |

It is to be mentioned that no income is expected from any of the soft interventions for SPV. The add on components like convergence initiatives are not included in business plan, as it is too early to assess the production levels and their marketing capability.

At the common processing centre, production of 2 ply yarns will be 2400 kgs per day and of 3 ply yarns will be 1200 kgs per day. Production capacity of mats is 100No's per day. All the capacities mentioned are at 100% utilisation. All the 3 facilities are expected to reach 50% capacity utilisation in the first year, 60% in the second year and reach a capacity of 85% by 6th year.

14.3.1 Product Mix:

The focus products of the CFC are 2 and 3 ply yarns, and mats. The sale price of 2 and 3 ply yarns will be Rs 20 and Rs 25 per meter respectively, and that of mats are Rs. 60 per No.

14.3.2 Manpower Cost:

The man power includes a plant in-charge who will take care of production that will be supported by 1 operator, two for pith manure and one for pith block. A store in-charge to take care of godown facility is also provisioned in the estimates. Both the units together require 10 skilled workers (will manage yarn, curled rope and mat unit operations) and 15 unskilled workers.

The administrative staff will have one manager, one assistant, besides 2 security guards.

The total wages for plant is estimated at 21.75 lakhs and for administrative staff the salaries are coming to Rs. 6.45 lakhs, which are inclusive of 25% fringe benefits as per enforcement directorate norms.

(Details of manpower given in annexed financial estimates)

14.3.3 Utility and other overheads:

GUNDAKANAHALLI COIR CLUSTER (MINOR)

Power: The project requires 93HP power and is expected to cost an amount of Rs. 05.92 lakhs in the first year of operation.

Water: Water of 10 gallons is required per day for industrial purpose for pith wash. So a charge of Rs. 1.20 lakhs is considered for the first year.

Preliminary expenses of 0.50 lakhs are considered for salaries during construction and power deposit, while **pre-operative expenses** were considered at Rs. 2.00 lakh for other admin costs.

Admin expenses are considered at 2% on sales, repairs and maintenance as 2% of sales and sales expenses as 3% on sales.

14.3.4 Depreciation

A depreciation of 3.34% on buildings and 4.75% on plant and machinery considered as per the Government Norms. While Straight line method is used for profit and loss account statement, WDV method is used for tax calculations. Total depreciation per year is coming to Rs.4.99 lakhs per annum.

14.3.5 Working Capital

Since 100% of capacity is used for direct marketing, the total working capital is coming to Rs.15.97 lakhs.

14.3.6 Financial Projections

Profitability Statement: Given as below:

| Year Ending 31st March | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|---|--------|--------|--------|--------|--------|--------|
| Production Capacity Utilisation | 0.50 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| Sales as percentage of installed capacity | 0.50 | 0.60 | 0.65 | 0.70 | 0.75 | 0.80 |
| Sales/ Total | | | | | | |
| Income | | | | | | |
| Gross Domestic Sales | 129.00 | 153.26 | 168.36 | 184.23 | 200.90 | 218.41 |
| Less: Excise Duty | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Net Domestic Sales | 129.00 | 153.26 | 168.36 | 184.23 | 200.90 | 218.41 |
| Export Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Net Sales | 129.00 | 153.26 | 168.36 | 184.23 | 200.90 | 218.41 |
| Other Operational Income | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

GUNDAKANAHALLI COIR CLUSTER (MINOR)

| | | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|---------------|
| Total Income | 129.00 | 153.26 | 168.36 | 184.23 | 200.90 | 218.41 |
| | | | | | | |
| COST OF PRODUCTION- SALES | | | | | | |
| Raw material Consumed | 72.00 | 86.40 | 93.60 | 100.80 | 108.00 | 115.20 |
| Consumables, Stores and spares (2% on sales) | 2.58 | 3.07 | 3.37 | 3.68 | 4.02 | 4.37 |
| Power, Fuel and other utilities (Variable) | 3.55 | 4.26 | 4.62 | 4.97 | 5.33 | 5.69 |
| Power, Fuel and other utilities (Fixed) | 2.37 | 2.84 | 3.08 | 3.32 | 3.55 | 3.79 |
| Water | 1.20 | 1.26 | 1.32 | 1.39 | 1.46 | 1.53 |
| Factory salaries & Wages (variable) | 10.88 | 13.05 | 14.14 | 15.23 | 16.31 | 17.40 |
| Factory salaries & Wages (fixed) | 6.45 | 6.45 | 6.45 | 6.45 | 6.45 | 6.45 |
| Repair and maintenance | 2.58 | 3.07 | 3.37 | 3.68 | 4.02 | 4.37 |
| Other Variable Expenses | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Depreciation | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 | 4.99 |
| Sub Total | 106.60 | 125.38 | 134.93 | 144.51 | 154.13 | 163.78 |
| Add: Opening Stock in process | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Less: Closing stock in process | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| COST OF PRODUCTION | 106.60 | 125.38 | 134.93 | 144.51 | 154.13 | 163.78 |
| Add: Opening stock of finished goods | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Less: Closing stock of finished goods | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Cost of sales | 106.60 | 125.38 | 134.93 | 144.51 | 154.13 | 163.78 |
| Selling Packing & Distribution Expenses | 3.87 | 4.60 | 5.05 | 5.53 | 6.03 | 6.55 |
| Administrative & Misc. Expenses | 2.58 | 3.07 | 3.37 | 3.68 | 4.02 | 4.37 |
| Sub Total | 113.05 | 133.05 | 143.35 | 153.72 | 164.17 | 174.70 |
| Profit Before Interest and Tax (PBIT) | 15.95 | 20.22 | 25.02 | 30.51 | 36.73 | 43.71 |
| Interest on Bank Loan | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Interest on unsecured loan | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Interest on bank borrowing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Operating Profit | 15.95 | 20.22 | 25.02 | 30.51 | 36.73 | 43.71 |
| Preliminary expenses written off | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Non Operational Income | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Profit Before Tax (PBT) | 15.70 | 19.97 | 24.77 | 30.26 | 36.48 | 43.46 |
| Provision for taxation | 1.69 | 3.63 | 5.74 | 8.06 | 10.30 | 12.77 |
| Profit After Tax | 14.01 | 16.33 | 19.03 | 22.20 | 26.18 | 30.69 |

GUNDAKANAHALLI COIR CLUSTER (MINOR)

14.3.7 Break Even Analysis

The project will reach breakeven in the first year of operation. During the first year the variable expenses are coming to Rs.92.88 lakhs with a contribution of Rs. 36.12 lakhs thus leaving a breakeven of 52.51%. The breakeven will show a declining trend and by 6th year it will reach to 34.63 which is significant.

(Please refer annexure 41 for detailed BE analysis)

14.3.8 IRR Calculation

Both pre and post-tax IRR were calculated to assess the viability of the project. The average IRR before tax is coming to 22.10 with an NPV of Rs. 152.91 lakhs at 7% discount rate. The average IRR post tax is coming to 16.30 with NPV of Rs. 82.44 lakhs. Since there is no bank lending the IRR appears to be on positive side showing the viability of the project.

(Please refer annexure 12 for detailed IRR analysis)

Conclusions:

The above financial statements indicate that the proposed facilities are viable, provided at least 60% capacity utilization is ensured. Any drop in sale charges more than 20% and increase in expenditure cost by 20% will make the unit a non-viable proposition.

Note: The detailed financial statements are given as annexure 1 to 14

PROPOSED IMPLEMENTATION FRAMEWORK

13.1 Role of implementing agency

Following are the expected role of implementing agency

- Appointment and monitoring of the performance of CDA
- Selection of relevant beneficiaries for each activity balancing all the areas of concentration and stakeholders
- Micro planning of each activity in to sub activities and make a plan, besides sticking to time lines
- Acquisition of all clearances, documents, NOCs for land, power, water, construction from concerned line departments with the help of TA. .
- Preparation of quarterly progress reports, expenditure statements on timely basis with the help of TA.
- Leveraging of Central and State Schemes for add on activities with due help from TA
- Capacitate its executive members for strong self-governance

13.2 Details of strategic partners and other project stakeholders

TA needs to help the IA in not only preparation of DSR and subsequent DPR but also in identification of competent CDA, implementation of SI and HI as per the plan. They also expected to help IA in framing proper O&M framework for CFC maintenance.

Coir Board is required to release the funds on time once the yearly action plan has been submitted. It also needs to provide technical help wherever required since coir sector comes under its fold.

CCRI and other coir board affiliated institutions play a crucial role in organising the training programs like on advanced practices in spinning, mat making, pith block making. FICEA can also play a crucial role in supporting manufacturing firms for export of yarn and mats.

Coir Board

The Coir Board will act as the Nodal Agency. The agency will not only provide financial assistance in the form of grant in aid but also act as apex monitoring agency to oversee the progress of the proposed CFC through its regional office at Bengaluru. The nodal

GUNDAKANAHALLI COIR CLUSTER (MINOR)

agency will also appraise the implementation and progress of the CFC to the Scheme Steering Committee headed by Secretary, Ministry of MSME.

Commissioner of Industries (CoI)

As state level apex agency for industrial development, they can help the IA/ SPV in dovetailing state schemes with specific reference to establishment of hard interventions.

Cluster Coordination Committee (CCC)

A CCC will be formed preferably chaired by District Magistrate, with nominated members from Commissioner of Industries, Coir Board local office, NABARD, SPV and a related Technical Institution. The CCC will play the role of an advisor in technical, financial, marketing and management mechanisms for smooth functioning of CFC. It will monitor the progress of the CFC on monthly/ quarterly basis and suggest corrective actions wherever required. It will be a catalyst committee between SPV and other concerned Central/ State institutions for smooth coordination.

13.3 Structure and composition of SPVs

The Proposed Common Facilities will be managed by Special Purpose Vehicle. The name of SPVs and its details are given as below:

| S.No | Name of the sub cluster | Name of the SPV | Number of Members |
|------|-------------------------|--|-------------------|
| 1 | Gundakanahalli | Gundakkanahalli Coir Spinning Society, Mysore Road, Arisikere Contact Person and details: Mr. Rajesh Jain, President 09620418739 | 10 members |

The SPV will oversee the following functions:

- Establish, operate and maintain all common facilities as mentioned in the DPR.
- Collection of user charges from SPV members and other users of the facilities so as to meet the recurring expenses and future expansions
- Preparation and submission of progress reports to KVIC through TA

The management of the CFC will be a three tier structure for smooth and uninterrupted operations and is as follows:

GUNDAKANAHALLI COIR CLUSTER (MINOR)

The Management Committee: It is the main governing body for each SPV which is ably assisted by Technical and Secretarial staff. At present each SPV is having 3 executives namely President, Secretary and Treasurer. While the President will oversee the entire operations, the other members are entrusted with specific responsibilities like marketing, technical, finance, Public relations etc. based on their past experience and qualifications.

The technical staff: The Common Facility will have its own technical staff who will work on a full-time basis. The technical staffs are headed by an experienced plant in charge and will be assisted by skilled and unskilled employees to run the proposed hard interventions.

The Secretarial Staff: A competent person will be appointed as the assistant/ NDA who will look after day-to-day administrative operations of CFC.

16.1 Gundakanahalli

16.1.1 at Enterprise Level

Number of direct beneficiary firms: 10 manufacturing firms along with its 140 workers besides 350 artisans.

Likely range of outputs:

- At least 150 workers, artisans will be trained in advanced 2 & 3 Ply yarn, mat making
- At least 5 firms will start export marketing and 20 house hold units direct marketing by becoming producers
- Banks will support at least 20 potential house hold units, and manufacturers by providing term loans/ working capital
- At least 40 units will be benefitted under Public Support Schemes like CLCSS, TUFS, CGTMSE
- At least 10 to 15 house hold units will be linked to Coir Udyami Yojana

Indirect beneficiary firms:

Strengthening of forward and backward linkages and local institutions, provision of linkages with public and private support institutions, strengthening of local infrastructure through public-private partnerships would benefit at least 80% of the existing cluster enterprises indirectly, in 3 years of intervention.

16.1.2 Cluster Level

- Strengthening of SPV for establishment and management of proposed hard interventions
- Establishment of an pith block manure making centre
- Strong linkages with related institutions and BDSPs like CCRI, FICEA, NIFT and Banks, Coir Board and DIC
- Increase in productivity by 100%, turnover by 200%, employment by 80%

The performance indicators at cluster level are given as below:

GUNDAKANAHALLI COIR CLUSTER (MINOR)

| S.No | Indicator | Present Status | Post Intervention |
|------|---|--|---|
| 1 | Total Production (in MT/ No's) | 5625 MT of fibre + 40000 Meters of curled rope | 10000 mats, 3.00 lakh meters of 2 Ply yarn, 2.00 lakh meters of 3 Ply Yarn, 63000 meters of curled coir |
| 2 | Total Turnover (Rs. In lakhs) | 910 | 1415 |
| 3 | Investments (Rs. In lakhs) | 550 | 830 (including CFCs) |
| 4 | Profitability (in Percentage) | 7% to 10% | 14% to 17% |
| 5 | Employment – Direct & Indirect (in Nos.) | 500 | 800 |
| 6 | Capacity Utilization (in %) | 30 to 50 | 60 to 70 |
| 7 | Artisan income (Rs. in Thousands) | 4000 to 6000 | 8000 to 10000 |
| 8 | Direct Marketing by artisans (In nos.) | 0 | 30 |
| 9 | Export marketing by Manufacturers | 0 | 5 |
| 10 | Beneficiaries under Coir Udyami Yojana | 0 | 10 to 15 |
| 11 | Artisans to be covered under social benefit schemes (Jandhan + Pradhan Mantri Suraksha Bheema Yojana + Atal Pension Yojan + Prdhan Mantri Jeevan Jyothi Bheema Youjana) | 0 | 500 No's |

Annexures 1 – 14

Financial Statement of GundakanahalliCluster