

Submitted to Coir Board, Kochi

Prepared by:

ITCOT Consultancy and Services Ltd.

(Joint venture of ICICI, IDBI, IFCI, SIPCOT, TIIC, SIDCO and BANKS) 50 - A, GREAMS ROAD, CHENNAI - 600 006. Tel: (044) 42936800-02 FAX: 044 - 28293512 Web site: www.itcot.com Email: itcot@vsnl.com







































CONTENTS

| Sl.No | TOPIC | Page No. |
|-------|---|----------|
| # | EXECUTIVE SUMMARY | 1 |
| ## | PREAMBLE | 5 |
| 1 | CLUSTER PROFILE | 7 |
| 2 | CLUSTER VALUE CHAIN MAPPING | 14 |
| 3 | MARKET ASSESSMENT AND DEMAND ANALYSIS | 23 |
| 4 | SWOT AND NEED GAP ANALYSIS | 26 |
| 5 | PROFILE OF THE IMPLEMENTING AGENCY | 28 |
| 6 | PROJECT CONCEPT AND STRATEGY FRAMEWORK | 29 |
| 7 | PROJECT INTERVENTIONS (CORE SFURTI) | 31 |
| 8 | SOFT INTERVENTIONS | 33 |
| 9 | HARD INTERVENTIONS | 37 |
| 10 | PROJECT COST AND MEANS OF FINANCE (CORE SFURTI) | 47 |
| 11 | PLAN FOR CONVERGENCE OF INITIATIVES | 49 |
| 12 | ENHANCED PROJECT COST AND MEANS OF FINANCE | 50 |
| 13 | PROJECT TIMELINE | 51 |
| 14 | DETAILED BUSINESS PLAN | 53 |
| 15 | PROPOSED IMPLEMENTATION FRAMEWORK | 56 |
| 16 | EXPECTED IMPACT | 58 |

EXECUTIVE SUMMARY

| 01. Na | me of the cluster Din | ndigul Coir Consortium Private Limited, | | | |
|--------|---------------------------------|--|------------|-----------------|----------------|
| | , | Dindigul | | | |
| 02. | Type of Cluster | Major Cluster | | | |
| 03. | Location & Spread of the | The cluster a | rea is lo | cated in Dind | igul district, |
| | cluster | extends over | 3 Block | s viz. Dindig | ul, Natham |
| | | & Batlagund | lu. The c | cluster spread | includes 60 |
| | | Village Pand | chayats in | n Dindigul Di | istrict |
| | | The Geogra | phical s | pread of the | cluster |
| | | measures ab | out 20-2: | 5 Km radius. | |
| 04. | Product range | The existing range of coir products produced in the cluster are: | | | |
| | | • Block | | | |
| 05. | Size of cluster & Type of units | The total number of coir units available in the | | | |
| | | cluster area is around 200 units of which 87 | | | |
| | | Nos. are engaged in Fibre Extraction, 42 Nos. | | | |
| | | engaged in Curled Coir rope making, 56 Nos. | | | |
| | | engaged in Yarn Spinning and 15 Nos. | | | |
| | | engaged in manufacturing of Pith Blocks. The total number of beneficiaries estimated to be | | | |
| | | i | | | |
| | | | | ers which in | |
| | | | | cluster. Based | |
| | | typified as M | | neficiaries, th | c clustel is |
| 06. | Production & Turnover of | typincu as iv | rajor Ciu | | |
| 00. | 1 I WHITE OF THE HOTEL OF | Product | No.of | Production | Turnover |
| | Coir products in the cluster | | | | |
| | | | units | (MT) | (Crores) |
| | | Coir Fibre | 87 | 39150 | 98.00 |
| | | Coir Yarn | 56 | 4200 | 13.50 |
| | | Curled Coir Rope | 42 | 9450 | 23.00 |

| | Coir Pith bloc k | 15 | 15000 | 13.50 | |
|--|------------------|----|-------|-------|--|
|--|------------------|----|-------|-------|--|

| 7. <u> </u> Em | ployment & Income level | | | | |
|----------------|--|---|---|--|--|
| | | Activity | Male | Female | Total |
| | | Fibre | | | |
| | | Extraction | 220 | 650 | 870 |
| | | Yarn Spinning | 56 | 224 | 280 |
| | | Curled Coir | 84 | 336 | 420 |
| | | Pith | 20 | 120 | 150 |
| | | Block | 30 | 120 | 150 |
| | | Making The income level | for the 1 | ahours in th | e cluste |
| | | İ | | | |
| | | is Rs.250/- for m | are works | ers and Rs. | 130/- 10 |
| | | female workers.Most of the | | | |
| 09. | Key Concern areas of the cluster Proposed Strategic | cluster and engaged in di baling of fibro But there is n area, for what transported to which incurs result in increactually affect product in the Cluster's presintermediate petc., which fe • Coir Pith, production (2 in 1 Ton production (2 in 1 Ton production exploits scope for value enormous and exists for value Soft Interventio | rect fibre (20 Kg) o baling thich the Decay Rajapa high transeased cots the core global numbers and teches reducts for the season of the decay the addition of the exceller added | gs.) is a necessacility in the fibre is layam or sportation cost of fibre mpetitivened arket. In such as fibre during the distribution of Coir fibre on of Coir at market positions. | which essity. he clusted being Theni, cost. This which ss of the mited to re, yarn n only. filtenerated by is not enthough pith is otential |
| | Interventions | Capacity I Market Pr Hard Interventi Common facilitie Baling Pres Grow Bag 5 kg. Pith I 650 gm. Pir | Building omotion ons: es propos ss (120 K manufac Block ma | g.) eturing king | |

| Thematic Interventions: |
|--|
| Participation in activities such as national and |
| internationa 1 level brand promotion |
| campaigns, New Media marketing, E- |

| | | commerce initiatives etc., as detailed in the |
|-----|--|--|
| 10 | Dudget for Soft interventions | SFURTI implementation guidelines Rs. 25.00 Lakhs |
| 10. | Budget for Soft interventions | |
| 11. | Budget for Hard interventions | Rs.302.00 Lakhs |
| 12. | Total Project cost | Rs.389.62 Lakhs |
| 13. | (including Agencies cost) Means of Finance | Grant under SFURTI scheme: Rs. 291.62 lakhs |
| | . Post Intervention Scenario > U pected Impact) | hique space in global lakes market, because of price competitiveness due to the establishment of 120 Kg. fibre baling |
| | | facility. Effective utilization of pith generated from fibre extraction units, resulting in increased cluster earnings by 20 – 25%. Post interventions, the Cluster's export earnings will be increased by 15-20% Expansion of activities by existing fibre extraction units to value added pith based activities, as no additional fixed investment is required for the same, due to the common facility created for manufacture of value added pith based products to operate on User fee charge basis Emergence of more number first generatio n new entrepreneurs utilizing the CFC, with minimum investment, who purchase the pith, get it converted to value added product on User fee basis in the CFC, and market it globally. Emergence of specialized support service providers and their active involvement in the development process Establishmentofnewunitsby converging various schemes of State and Central Governments (such as Coir Udyami Yojana, NEEDS, PMEGP, UYEGP, etc.) resulting in additional investments in Coir sector by the cluster members Improved access to financial capital for cluster members |
| 15. | Cluster Management | The cluster is proposed to be developed under |
| -2. | | SFURTI (Scheme of Fund for Regeneration |

the Nodal agency (NA) and ITCOT Consultancy and Services Limited is the Technical Agency (TA) appointed by Coir Board. The proposed implementing agency is Small Industries Product Promotion Organisation (SIPPO), Madurai. The above agencies work in tandem towards the successful implementation of the project in a sustainable manner.

The SPV is formed and registered as Private Limited Company under Companies Act 2013 in the name of 'DINDIGUL COIR

CONSORTIUM PRIVATE LIMITED as per the Certificate of Incorporation issued by Registrar of Companies, Coimbatore dated 22.05.2015. The CIN of the company is U37100TZ2015PTC021408. Currently the SPV has 22 members and the SPV will be strengthened to manage the Cluster activities in sustainable nature after the project implementation is over.

PREAMBLE

The Coir industry has to its credit a tradition and heritage of centuries. But development of Coir industry in India has begun in an organized way only in 1959. Ever since this humble beginning, Coir products have been improving in quality, quantity and variety. For historical reasons, cultivation of coconuts and extraction of Coir fibre and its further processing have taken deep roots in the state of Kerala. The rapid expansion of coconut cultivation in non-traditional areas increased the production of coconut and the industry has also developed gradually in the states of Tamil Nadu, Karnataka, Andhra pradesh and Orissa. Coir industry in India is one of the important rural industries. It provides source of income to about 5 lakhs artisans in rural areas. Women constitute about 80% of the work force in coir industry.

Coir has come a long way from the ancient uses. It is still used for agricultural and domestic purposes. It has also become an article of use in modern life either as garden article, as bags for the tea leaves, for training hops, as brush mats at the door steps, as long-wearing carpets in the corridors of the bungalow veranda, as tastefully planned floor coverings in the drawing room or as the runner on the staircase, as geo-fabric for controlling landslide or soil erosion, for protection of embankments of roads, railway and canals.

With a view to making the traditional coir industries more productive and competitive and facilitating their sustainable development, the Central government has announced Scheme of Fund for Regeneration of Traditional Industries (SFURTI). ITCOT Consultancy and Services Ltd. (ITCOT) has been appointed as Technical Agency by Coir Board for SFURTI Coir clusters in Tamilnadu. Subsequently, Coir Board has entrusted the task of preparation of Detailed Project Report for the Coir Cluster located at Dindigul to M/s. ITCOT Consultancy and Services Limited, Chennai. Accordingly, ITCOT has prepared the Detailed Project Report (DPR) for submitting the same for seeking approval from the Scheme Steering Committee (SSC).

This report is prepared based on interaction with coir industrialists in the clusters, coir industry workers, industry association members, NGO's and support institutions in the district, Informal interviews with industry participants, machinery suppliers and experienced entrepreneurs, collection of secondary information etc.

The Chapter scheme of the Detailed Project Report is as follows:

Cluster Profile is given in Chapter 1. Cluster Value Chain Mapping is given in Chapter 2. Market assessment and Demand Analysis is given in Chapter 3. SWOT and Need Gap Analysis is given in Chapter 4. Profile of the Implementing Agency in Chapter 5. Project Concept and Strategy Framework are detailed in Chapter 6. Core SFURTI Project Interventions are given in Chapter 7. Detailed analysis of Soft Interventions is given in Chapter 8 and analysis of Hard Interventions is given in Chapter 9. Project Cost and Means of Finance (Core SFURTI) is given in Chapter 10. Plan for Convergence Initiatives are given in Chapter 11. Enhanced Project Cost and Means of Finance are given in Chapter 12. Project Timeline is illustrated in Chapter 13. Detailed Business Plan is given in Chapter 14. Proposed Implementation Framework is given in Chapter 15. Expected Impact is detailed in Chapter 16.

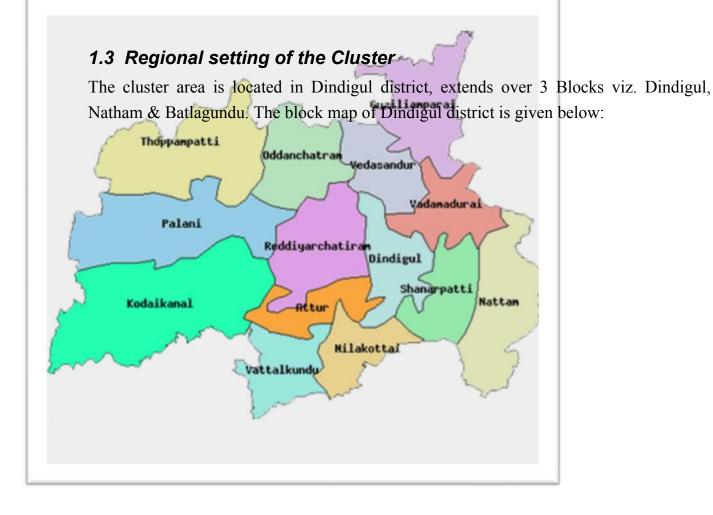
1 CLUSTER PROFILE

11 BACKGROUND

12 Key Economic Activities in the region

Dindigul district was curved out of the composite Madurai District on 15.9.85 Dindigul, which was under the way of the famous Muslim Monarch, Tippusultan, has a hoary past. The Historical Rock Fort of this district was constructed by the famous King Muthukrishnappa Nayakker. Dindigul district is bound by Erode, Tirupur, Karur and Trichy districts on the North, by Sivaganga and Trichy District on the East, by Madurai district on the South and by Theni and Coimbatore Districts and Kerala State on the West. It is spread over on area of 6266.64 Sq. Km. It comprises 3 Revenue Divisions, 8 Taluks and 14 Panchayat Unions, According to 2011 census, the total population is 21,61,367.

Dindigul is known for its leather tanning Industry. Besides tanning, the city is home to a major textile spinning industry, which ranks second next to Coimbatore in spindlage capacity. Chinnalapatti, which is located 11 kilometres from Dindigul, is known for its flourishing hand loom industry. Silk art, known as Sarees, and sungudi produced in Chinnalapatti are famous throughout India. More than 1000 families are engaged in this industry. Dindigul city is an important wholesale market for onions and groundnuts (peanuts).



1.4 Location

The cluster spread includes 60 Village Panchayats in Dindigul District. The Geographical spread of the cluster measures about 20-25 Km radius.

1.5 Evolution of the Cluster

The Cluster is naturally evolved one. The total coconut cultivation area of Dindigul district is 24123 hectares mainly in Dindigul, Natham, Batlagundu, Athoor, Nilakottai, Vedasendur & Palani blocks of Dindigul district. The total production of nuts in the district is 422.15 million nuts.

Coir, being the natural fibre extracted from the husk of Coconut, Coir industries started flourishing in the district owing to the local availability of raw material and naturally the cluster evolved.

| 1.6 Demography and Growth trends | | |
|---|------------------|-----------------------|
| The statistical data of Dindigul district as per Cerespect to Census 2001 is given below: | nsus 2011 and th | e growth aspects with |
| Description | +2011 | 2001 |
| Actual Population | 2,159,775 | 1,923,014 |
| Male | 1,080,938 | 968,137 |
| Female | 1,078,837 | 954,877 |
| Population Growth | 12.31% | 9.22% |
| Area Sq. Km | 6,036 | 6,036 |
| Density/km2 | 358 | 317 |
| Proportion to Tamil Nadu Population | 2.99% | 3.08% |

1.7 Socio-economic aspects

The significance of coir industry arises primarily from the fact that a large a number of people from the economically weaker sections of the society depends on this industry at the current level of production of coir, the industry utilizes about 40% of the annual yield of coconut husk in the country. There is possibility to increase the utilization to at least 60% of husk production. Therefore, there exists vast potential for stepping up of production of coir in India. The increased utilization of coconut husk abundantly available in the coconut growing states of India provides scope for development of fibre processing sector and thereby augmenting rural employment.

1.8 Human Development Aspects

The total number of workers engaged in the Coir activity gender wise is given below:

| Activity | Male | Female | Total |
|-------------------|------|--------|-------|
| Fibre Extraction | 220 | 650 | 870 |
| Yarn Spinning | 56 | 224 | 280 |
| Curled Coir rope | 84 | 336 | 420 |
| Pith Block Making | 30 | 120 | 150 |

The existing income level of the labour force in the Coir sector of the district is given below:

| Activity W | | ges per d | ay |
|------------------|-----|-----------|--------|
| | | Male | Female |
| Fibre Extraction | on | 250 | 150 |
| Yarn Spinning | g | 250 | 150 |
| Pith Block Mak | ing | 250 | 150 |

It is observed that the income level for all activities is same for male as well as for female workers. Among these workers, 80% belongs to OBC category, 10% SC category and remaining 10% belongs to other categories.

Dindigul town has been associated with iron products like Iron Hundial, Iron safe boxes. Another industry for which Dindigul is noted is Leather Tanning. The widely known "Roja Supari" are produced in this town and are being sent to various places in our State and outside. It is a flourishing industry gives employment to vide section of people. This district is having a flourishing handloom industry at Chinnalapatti, which is located at 11 Kms away from Dindigul on the Madurai-Dindigul road. Art –Silk sarees and sungudiSarees produced in Chinnalapatti are famous through out India. More than 1000 families are engaged in this Industry. Dindigul city which is an important wholesale market for Onion and Groundnut.It has the network of inter-district roads connecting Coimbatore, Tirupur, Trichy, Karur, Madurai and Sivagangai District.

Apart from these activities, Coir Fibre extraction, Curled Coir rope making, Yarn spinning and Coir pith block making are the major activities undertaken in the district. In the cluster, there are about 87 units engaged in coir fibre extraction. The current output of coir fibre is estimated at 39150 MT per annum. The annual turnover out of coir fibre production in the cluster is estimated at 98.00 Crores. There are about 56 units engaged in coir yarn spinning in the cluster. The current output of coir yarn is estimated at 4200 MT per annum. The Annual turnover out of coir yarn spinning in the cluster is estimated at 13.50 Crores. There are about 42 units engaged in curled

coir rope making in the cluster. The current output of curled coir rope is estimated at 9450 MT per annum. The Annual turnover out of curled coir rope making in the cluster is estimated at 23.00 Crores. There are about 15 units engaged in coir pith block making in the cluster. The current output of coir pith block is estimated at 15000 MT per annum. The Annual turnover out of coir pith block making in the cluster is estimated at 13.50 Crores.

19 Infrastructure – social, physical, financial and production related

The infrastructure details of Dindigul district is tabulated as below:

DISTRICT PROFILE GLANCE

| North Latitude | Between 10 ⁰ 05' and | 100 09' |
|---------------------|------------------------------------|-------------|
| East Longitude | Between 77 ⁰ 30' and 78 | 30 20' |
| AREA AND POPULATION | 1991 Census | 2001 Census |
| Area (Sq.Km) | 6266.64 | 6266.64 |
| Population | 17,60,601 | 19,23,014 |
| Density | 281 | 306 |
| Main Workers | | |
| Total Workers | 832493 | 973332 |
| Male Workers | 529891 | 585146 |
| Female Workers | 302602 | 388186 |

| Rural Workers | 707218 | 699276 |
|------------------------|--------|--------|
| | | |
| Urban Workers | 125275 | 274056 |
| | | |
| Cultivators | 216559 | 183218 |
| | | |
| Agricultural Labourers | 366338 | 313195 |
| | | |
| Household Industry | 18655 | 25180 |
| | | |
| Other Workers | 230941 | 320300 |
| | • | • |
| Marginal Workers | 32277 | 131439 |

Non-Workers 895831 949682

| L | 1 | L | · - 1 | |
|--|---------------|---------------------|-----------------------------|--|
| TEMPERATURE (in Celsius) | Maximum | Minimum | | |
| Plains | 34.3 | | 22.5 | |
| Hill Stations | 22.0 8.0 | | | |
| RAINFALL (in mm) | Normal Actual | | | |
| North East Monsoon | 399.2 | | 741.2 | |
| South West Monsoon | 251.4 | | 247.5 | |
| AGRICULTURE | | | | |
| Total Cultivated Area (Hec.) | 2,61,758 | | | |
| Net Area Sown (Hec.) | 253505 | | | |
| Area Sown more than once (Hec.) | 8253 | | | |
| Area and Production of Principal Crops | Area (Hec.) | Production (Tonnes) | | |
| Paddy | 23735 | | 8378 | |
| Millets and Other Cereals | 81610 | | 11011 | |
| Pulses | 27135 | | 37310 | |
| Sugarcane (Gur) | 7014 | | 8136 | |
| Groundnut | 22070 | | 580441 | |
| Gingelly | 1459 | | 655091 | |
| Cotton (BL) | 1999 | 5657 | | |
| Agricultural Land Holdings | Holdings | Area | Average Size of Holdings | |
| | 302711 | 334835 | 1.11.0 | |

DETAILS OF INDUSTRIAL CO-OPERATIVE UNITS IN DINDIGUL DISTRICT

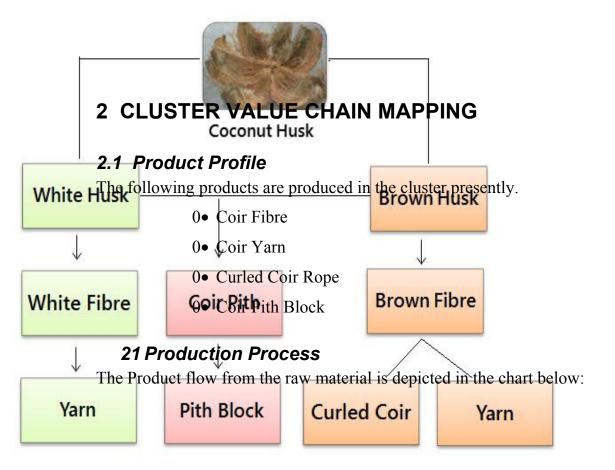
| Sl. No. | The state of the s | ine of Activity D | ate of Registration | on |
|---------|--|---|---|-----------------------|
| 1. | Dindigul Lock Workers Industrial Co-Operative Society Limited. Dindigul | Production of Locks | 05.09.19: | 57 |
| 2. | | Dindigul Ladies Polythene workers Industrial Co- Operative Society | Dindi gul Auto driver | P ro du cti |
| 3. | | Limited. Dindigul Kurumpapatti metal workers Industrial Co- | s Indust rial Co- | on of Po lyt |
| 4. | | Operative Society Ltd. Dindigul. | Opera tives Societ y | he ne ba gs |
| 5. | | Dindigul Printers service Industrial Co-Operative | Limite d Din digul | Man ufact |
| 6. | | Society Limited. Dindigul Small Industries | Dindigu 1 district Sthapat higal | uring of v |
| 7. | | service Industrial Co-Operative Society Limited . Dindigul | and temple Industri | e s s |
| 8. | | workers Industri Co-Operative | Society | e 1 s |
| 9. | | Society Limite Nilapatti Dindig District | ed.Limited gul. Dindigu | Serv ice |
| | | Dindigul Minorities auto drivers Industrial Co- | • | Soci ety |
| | | operative Society Limited. Dindigul | | Serv ice |

| Society | | |
|--------------------|------------|---|
| | 18.11.1959 | $ \begin{array}{c} 13.08.200 \\ 6 \end{array} $ $ \begin{array}{c} 02.04. \\ 2008 \end{array} $ |
| Production of Coir | | O |
| | 06.03.1957 | |
| Service Society | | 02.04.200 8 |
| | 16.10.2006 | |
| Dormant | | 07.11.199 6 |
| | 06.09.1994 | |

New Society

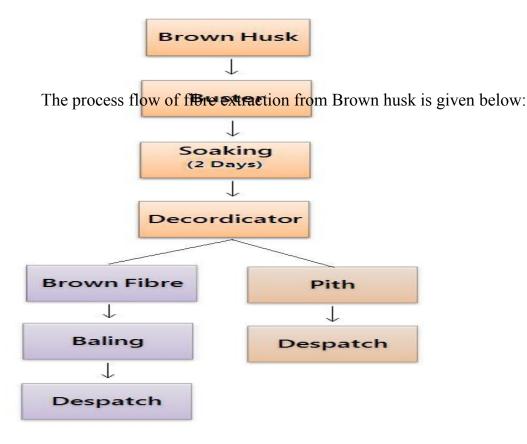
The Industrial Estates located in Dindigul District are:

- 1. SIDCO Industrial Estate, Dindigul.
- 2. SIPCOT Industrial Complex, Nilakottai.



Coir Fibre:

The coconut husk (raw material) is collected from the farms and stored. The collected husk is soaked in water. Then soaked material is fed into the decorticator wherein the fibre and pith are separated. The fibre is dried in the sunlight and is pressed in the form of 35-Kg bundles by using balling press and dispatched for sales.



Coir Yarn:

Coir yarn spinning is similar to cotton yarn spinning. The processes involved given here under:

- 1. Willowing
- 2. Slivering
- 3. Spinning
- 4. Winding

Cor fibre obtained from fibre extraction units and is wetted by spraying water. After 2-3 hours, the wetted fibre is passe through the willowing machine to remove the impurities and the place the fibre and parallel to each other. The fibre is then fed in to slivering machine wherein it is converted in to sliver form. The slivers are spun into yarn as per specifications in the spinning machine. The yarn is then cleaned and wound in to rolls and is now ready for the market.



Curled Coir Rope:

The clean fibre is fed to the hackling machine in which the fibre is loosened, opened out and teased to facilitate easy curling. Then the hackled fibre is fed to the curling machine in which the fibre is straightened passing through the rollers and curled in the spinning head. The curled rope is wound on bobbins and the bobbin head. The hopper feeder is provided for feeding uniform weight from the quantity of fibre to the curling machine. The ropes of different diameters can be produced on the curling machine.

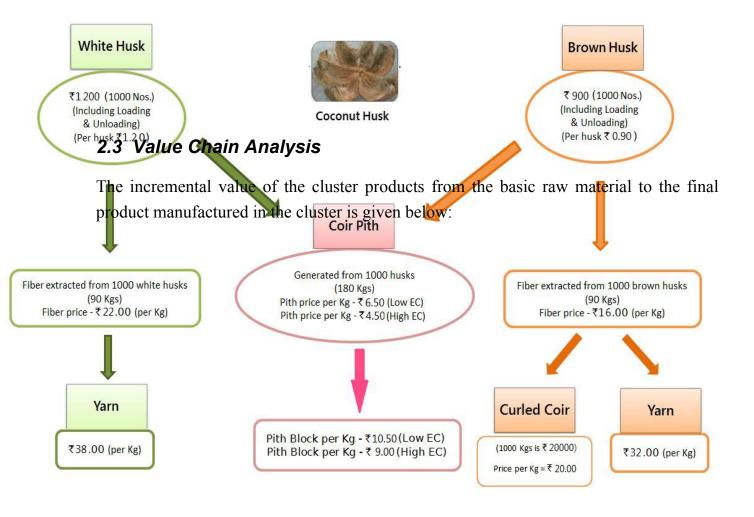


Coir Pith Block:

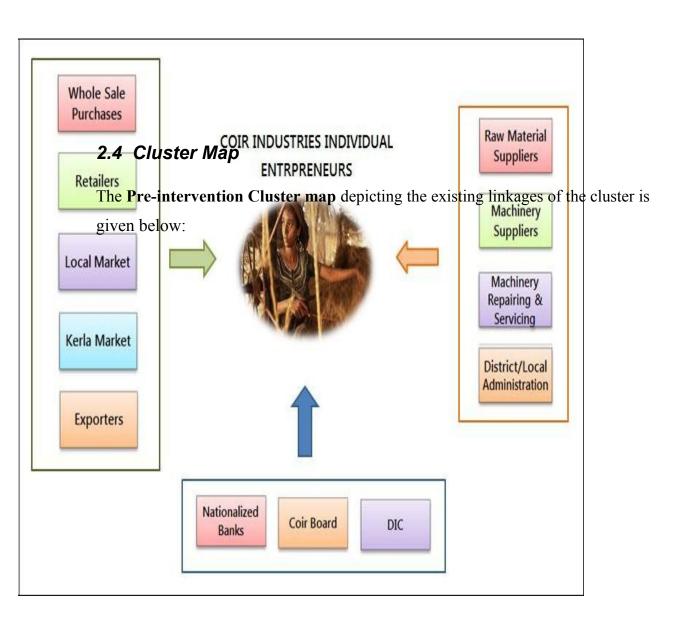
The by-product obtained during the process of Coir Fibre Extraction is Coir Pith. The raw coir pith (high EC) is received and washed in the soft water to reduce the EC. The low EC pith is dried in the yard and the dried pith is subjected to sieving / mixing process. The resultant pith is fed into the compacting machine in which the pith is converted into blocks. Then the blocks are packed and then dispatched to sales. The process flow chart for the Coir pith block making is given below:

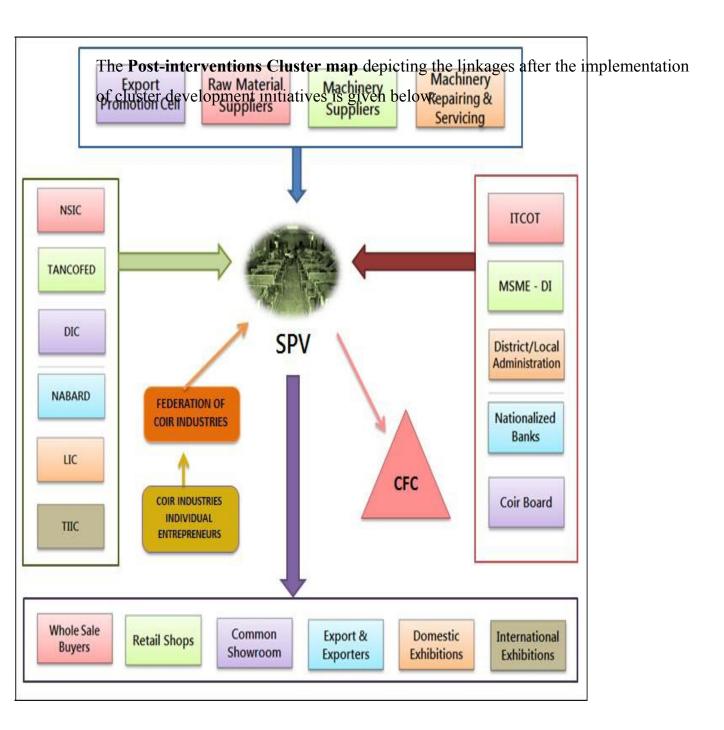
High electrical conductivity (EC) of coir pith is the major constraint in using it as growing medium. The higher level of EC in pith is rectified by washing it with good

quality fresh water. Hence washing is the significant stage in the process.



It is observed that the value addition in the cluster is limited to intermediate product level and the need and scope for value addition for coir sector in the cluster is considered significant. The cost of Green husk including loading and unloading is valued at Rs.1.20, which is incremented to Rs.22.00 per Kg. of fibre, which is further incremented to Rs.38.00 per Kg. of yarn. Similarly the cost of Brown husk including loading and unloading is valued at Rs.0.90, which is incremented to Rs.20.00 per Kg. of fibre, which is further incremented to Rs.32.00 per Kg. of yarn. The cost of raw coir pith including loading and unloading is valued at Rs.4.50 per kg., which is further incremented to Rs.10.50 per kg. of low EC – 5 kg.pith block.





2.5 Principal Stakeholders

COIR BOARD

Coir Board is the Nodal Agency for the SFURTI scheme. The coir Board set up by the Government of India under an act of parliament the coir Industry act 1953. Coir Board provides financial, market development, skill training assistance for the development of coir Industry and also extends the technical guidance and advice for setting up of new units as well as for renewal/modernization of existing units for development and increasing productivity, quality up-gradation etc.

DISTRICT INDUSTRIES CENTRE (DIC)

The District Industries Centre, located in all district headquarters, is the State government body functioning under the aegis of department of industries and commerce. DIC implements various schemes (UYEGP, NEEDS, PMEGP etc.,) to promote MSME sector.

TAMILNADU CORP. FOR DEVELOPMENT OF WOMEN (TNCDW)

TNCDW is one of the government agencies implementing many schemes for Self Helf Groups. They also implement Tamil Nadu State Rural Livlihood Mission (TNSRLM) towards poverty eradication.

NABARD

NABARD is the financial institution focusing on Agriculture and Rural Development activities. Presently, they are also focusing on artisan cluster development.

LEAD BANK

Canara Bank is the lead bank in Dindigul district. Lead bank will coordinate the credit activities of banks in the district in addition to performing leading role in schemes launched by State/Central governments

TAMIL NADU AGRICULTURAL COLLEGE (TNAC)

TNAC, the premier agricultural college, is located in Madurai, which is about 50 kms from the cluster. TNAC is the leading Agro technology provider in India.

ITCOT Consultancy and Services Limited (ITCOT)

ITCOT Consultancy and Services Limited, popularly known as ITCOT, is the state technical consultancy organization, promoted by all India financial institutions, State Development Corporations and Commercial Banks. ITCOT has wide experience in providing support services to micro and small enterprises under various government schemes. ITCOT, having its head office at Chennai, has project offices at Erode and Salem involved in enterprise promotion and development. ITCOT has been empanelled as Technical Agency under SFURTI scheme by KVIC and Coir Board.

Commercial & Cooperative Banks

There is a good network of commercial Cooperative banks in the cluster. They offer both cash credit and term loan facilities to the coir industry. However, institutional finance for coir industry is limited and there is a large gap between the need for the credit and its availability.

Export of Coir & Coir Products during the last 10 Years in terms of Value (Value in Rupees Lakhs)

160000

20000

140003 MARKET ASSESSMENT AND DEMAND ANALYSIS

Coir industry is of great importance to the coconut producing states in India, as it contributes significantly to the economy of rural areas. Kerala is the largest producer of country contributing as much as 45% of country's total production, whereas

Tamilnadu stands second in cultivation of coconut and first in production of brown coir 40000 fibre in the country. The State wise potential for production of Coir Fibre is given below:

| | | | Area | Production | Coir fibre potential |
|--------|-----------------------------|------------------------------------|------------------------|---------------|----------------------|
| 2004-0 | 5 8 9 N 6. 20 | 06 State 07-08 2008-09 2009 | 1 ('000 11 2011 | -પંજામાંમાં અ | @ 60% husk |
| | | | Ha) | nuts) | utilization (MT) |
| | 1 | Kerala | 766.00 | 7057.88 | 338778 |
| | 2 | Tamilnadu | 430.70 | 6211.21 | 298138 |
| | 3 | Karnataka | 511.00 | 5915.33 | 283936 |
| | 4 | Andhra pradesh | 142.00 | 1985.00 | 95280 |
| | 5 | Orissa | 53.90 | 403.25 | 19356 |
| | 6 | West Bengal | 29.10 | 395.28 | 18973 |
| | 7 | Gujarat | 20.90 | 340.58 | 16348 |
| | 8 | Assam | 20.80 | 304.47 | 14615 |
| | 9 | Other states/Uts | 96.30 | 738.20 | 35403 |
| | | Total | 2070.70 | 23351.20 | 1120827 |

The export of coir products are in the increasing trend during the last 10 years as illustrated in the graph below:

Composition of Export (Share in %)

| Name of the item | Apri2013-l | March 2014 | Apri2012-N | March 2013 | |
|-------------------------|----------------------|------------------------|--------------------------|---------------------------|------------------------------|
| | Qty % | Value% | Qty % | Value %. | |
| he major products t | hat are 6 | xported ₀ a | ire Coire | ibre, 35.0gr | pith and Mats. It has been |
| beir view that the perc | enta \$65 \$ | rowth23.115v | value <mark>48</mark> ₽€ | xport2 <mark>3</mark> f1© | oir fibre has been 58.77% in |
| Handloom Mats | 4.21. | 16.00 | 5.62 | 20.44 | 1 . 1 |
| Coir Fibre compared to | the gressi | ous year ₇ | Also the 1 | ercentage | growth in value of export of |
| Gio Bintilhas been 38. | 20% ⁰ iթ3 | 2013- P4 7c | ompareet | to the 3036 | vious year. The Product wise |
| Coir Yarn | 0.79 | 1.93 | 0.98 | 2.14 | |
| xport details of coir p | rodusts 1 | n 201 <u>3</u> .062 | is given | below _{1.89} | |
| Handloom Matting | 0.64 | 2.27 | 0.33 | 1.53 | |
| Rubberised Coir | 0.18 | 1.06 | 0.07 | 0.44 | |
| Coir Rope | 0.09 | 0.26 | 0.10 | 0.25 | |
| Coir Rugs & Carpet | 0.02 | 0.07 | 0.02 | 0.12 | |
| Coir Other Sorts | 0.02 | 0.11 | 0.01 | 0.04 | |
| Powerloom Mat | 0.04 | 0.19 | 0.00 | 0.00 | |
| Total | 100.00 | 100.00 | 100.00 | 100.00 | |
| | | | | | |

| COII CUICI SOILS | 00 | 100.10 | 00 | 00.00 | 100.01 | VI 1.77 |
|------------------|--------|-----------|--------|-----------|--------|---------|
| Total | 537040 | 147603.84 | 429501 | 111602.75 | 25.04 | 32.26 |

[#] Quantities Rounded

The percentage of share of each product with respect to total exports, both in Quantity and Value for the year 2013-14 is given below:

The Top five County wise Exports of Coir and Coir products in the year 2013-14:

| S | No. | Coı | untry | (| Quatity | | Value | Qı | uantity | V | alue | _ |
|---|-----|-----|-------------|---|----------|----|--------|------|---------|---|-------|---|
| | | | | | (in MT | s) | (Rs.La | khs) | (%) | | (%) | |
| | 1 | | China | | 192110.0 | 62 | 36050 |).66 | 35.77 | 7 | 24.42 | 2 |
| | 2 | | USA | | 55091.0 |)3 | 30026 | 5.05 | 10.26 | 6 | 20.34 | 1 |
| | 3 | | Netherlands | | 53786.5 | 54 | 10870 | 0.04 | 10.02 | 2 | 7.36 |) |
| | 4 | | UK | | 11987.0 |)1 | 8600 | .98 | 2.23 | | 5.83 | |
| | 5 | | South Korea | | 67042.9 | 7 | 7020 | .54 | 12.48 | 3 | 4.76 | |

As far as the cluster is concerned the product line is limited to Coir Fibre, Coir Yarn, Curled coir and Pith blocks. The distribution of Coir Fibre produced in the cluster in marketing aspect is given below:

Coir Fibre – Present Market

| Direct Export | 30% |
|--------------------------------------|-----|
| Export through Merchant | 20% |
| Cluster Consumption (for Coir yarn & | 15% |
| Curled coir) | |
| Sales to other districts (Direct & | 35% |
| Agents) | |

The Coir yarn produced in the cluster is directly marketed to Salem yarn market and marketed in the cluster for some extent. The Curled coir produced in the cluster is marketed through dealers. As far as Pith block is concerned, 25% of pith block produced in the cluster is directly exported and the balance 75% is marketed through dealers for domestic and export market.

It is observed that the export potential for value added products are not at all tapped by the cluster with its current products and hence value added products having good export market potential is identified to be the need of the cluster.

4 SWOT AND NEED GAP ANALYSIS

STRENGTHS:

- 0-Easy to adopt technology to manufacture value added/diversified coir pith based products.
- 0– Existence of engineering infrastructure such as workshops and lathes.
- 0 → Sufficient availability of Labour force.
- 0- Well established physical infrastructure such as road, rail, power etc.
- 0- Excellent network of commercial and co-operative banks in the cluster.
- 0 → Presence of unity among the members Strong Federation.
- 0 → Products marketable in the local market
- 0-Presence of Support institutions such as Coir Board, District Industries Centre, Commercial banks, ITCOT etc.

WEAKNESSES:

- 0—Huge amount involved to mechanize the production process which is not affordable by most of the manufacturers
- 0– Unable to come out of the vicious circle of making the traditional products.
- 0 → Huge dependence of Electricity Power.
- 0 → Most of them sold their products to middle man/agents
- 0- Lack of formal networks for marketing and input procurement
- 0- Limited contact with BDS providers and Technical Institutions
- 0 → Weak linkages with banks and financial institutions

OPPORTUNITIES:

- 0-Good scope and potential for manufacturing of pith based value added /diversified products
- 0¬ Products can be manufactured throughout the year
- 0 → Presence of supporting schemes by Government departments.
- 0 → Increasing Domestic and Export market prospects for coir products.
- 0- Implementation of SFURTI Scheme for focused development of the cluster.

THREATS:

- 0¬ Fluctuation in fibre pricing.
- 0-Increase in production cost but decrease in net profit earned for the existing products.
- 0 → Competition from products such as Nylon, Jute Sisal fibre etc.
- 0—Increasing production of products such as Tender coconut, Neera etc., which utilize pre-mature nuts may result in basic raw material(husk) scarcity for Coir sector, as Coir sector depends on husk from fully mature nuts as raw material.
- 0-Competition from coconut growing country viz.: Sri Lanka, Indonesia & Philippines etc.
- 0¬ Utilization of husk for fuel purposes

NEED GAP ANALYSIS:

The key concern areas of the cluster are identified to be:

- 0. Most of the fibre extraction units in the cluster and also in nearby districts are engaged in direct fibre export, for which baling of fibre is a necessity. But there is no baling facility in the cluster area, for which the fibre is being transported to Rajapalayam or Theni, which incurs high transportation cost. This result in increased cost of fibre which actually affects the competitiveness of the product in the market.
- 0• Cluster's present production is limited to intermediate products such as fibre, yarn etc., which fetches reduced margin only.
- 0• Coir Pith, generated during fibre production (2 Tons of Coir pith generated in 1 Ton production of Coir fibre), is not being exploited by the Cluster, eventhough scope for value addition of Coir pith is enormous and excellent market potential exists for value added coir pith products.

Increased production of value added pith products and venturing for exports would augment the cluster turnover and export revenues. Collaborative efforts to increase captive consumption of raw coir pith on cluster mode to tap the market opportunities for the value added coir products is considered to be the requirement of the cluster.

5 PROFILE OF THE IMPLEMENTING AGENCY

Small Industries Product Promotion Organisation (SIPPO) which has been promoted jointly by National Small Industries Corporation (NSIC, a Govt. of India Enterprise) and Tamilnadu Small Industries Development Corporation (TANSIDCO, a Tamilnadu Govt. Undertaking) is proposed as the Implementing Agency for Dindigul Coir Cluster under SFURTI scheme. The main objective of the organisation is the promotion of Micro, Small and Medium Enterprises. In addition, SIPPO has involved in the Cluster development initiatives for various clusters in Tamilnadu such as:

- 0• Tie and Dye & Hand Printed Textile Cluster at Madurai
- 0• Silk Handloom Cluster at Tanjore through NABARD
- 0• Handicrafts clusters in Musical instruments, Art Plate, Swamimalai icons, Pith work and Root Carving, Nachiarkoil Bell Metal Craft and other miscellaneous crafts like Thalaiyattibommai, Cut Glass work and Tanjore painting at Tanjore District.
- 0• Wood carving cluster at Karaikudi, Sheet Metal Craft and Miniature Metal casting at Ariyakudi and Handmade Tiles cluster at Athangudi through Office of Development Commissioner (Handicrafts), Ministry of Textiles, Govt. of India.

SIPPO was the Technical Agency for the Kandanoor Khadi Cluster at Sivagangai District, Coimbatore Khadi Cluster at Avarampalayam, Coimbatore Disrict under SFURTI scheme of KVIC, Ministry of MSME, Govt. of India.

SIPPO has prepared the Diagnostic Study Report of this Dindigul Coir Cluster. Based on its experience in Cluster Development and their presence in the nearby district, SIPPO is proposed as the Implementing Agency for Dindigul Coir Cluster under SFURTI scheme.

6 PROJECT CONCEPT AND STRATEGY FRAMEWORK

6.1 Project Rationale

The project rationale is to rejuvenate the existing product mix in the cluster and to enhance the cluster competitiveness through capacity building of the entrepreneurs. Bridging the technological gaps and thereby reducing the cost of production, effective utilization of existing resource, improving the quality of the products and establishing global marketing linkages elevates the cluster to a higher level in terms of value addition, turnover, employment and foreign exchange earnings.

62 Project Objective

- 0-Strengthening linkages among the Cluster members and actors and to have a Collaborative setup to address common problems
- 0-Effective utilization of available raw pith resource in the cluster by strengthening the linkages.
- 0-To manufacture value added competitive products, using the available raw material resource and to venture the export market decisively
- 0-Exploit the benefits arising due to optimization of resources and economies of scale

63 Focus Products/Services

In addition to the Soft interventions for Capacity building and Market promotion initiatives, the following facilities are proposed as interventions for the development of the cluster:

- 0• Baling Press (120 Kg.) facility
- 0• Grow Bag manufacturing facility
- 0• 5 kg. Pith Block making facility
- 0• 650 gm. Pith Briquette making facility
- 0. Coco peat disc making facility

64 Conceptual Framework / Project Strategy

0-Strengthen linkages within the cluster - with other SMEs, larger enterprises, support institutions, banks etc. At times such linkages are also created with

important organizations (private/public) outside the cluster;

- 0¬ Assist cluster stakeholders to develop a consensus-based vision for the cluster as a whole;
- 0-Help stakeholders to coordinate their actions and pool their resources to move towards a shared vision for the cluster as a whole; and
- 0-Create an autonomous governance framework, in a step-by-step process that will sustain dynamism and change in the cluster after the withdrawal of the

implementing agency

7 PROJECT INTERVENTIONS (CORE SFURTI)

The Core SFURTI project interventions include Soft Interventions (as detailed in Chapter 8) and Hard Interventions (as detailed in Chapter 9), in addition to Cross-cutting thematic interventions

The soft interventions proposed are categorized into Capacity building and Market promotion activities as given below:

Capacity Building:

- 0• <u>Trust Building</u>: For strong association among cluster members to address common problems.
- 0• Awareness Programme: To provide awareness about SFURTI scheme benefits, Cluster development initiatives and the prospects for value added products in Coir sector
- 0• Entrepreneurship Development Programme: To foster entrepreneurship among cluster members.
- 0• <u>Technology based EDP</u>: To educate & adopt the latest technology in coir sector.
- 0• Skill Upgradation Programme: To increase the skilled labour force in the cluster to address the problem of limited skilled labour availability.
- 0• Exposure Visit: Visit to other vibrant cluster, research institutions etc. to understand the synergic effect and dynamics of vibrant clusters and to demonstrate the technology and marketability for value added products.

Market Promotional Activities

- 0• Market Study Tour: To enable the cluster members to gain a deeper understanding of the business environment and market dynamics in Coir sector.
- 0• <u>Participation in Trade Fairs</u>: To conduct business, cultivate cluster's image and to examine the market. The main objectives of participation of trade fairs are:

0♣ Increased Sales

- 0. Product showcasing for enhanced product visibility
- **0**♣ Establish qualified leads

In addition, trade fairs are the ideal place for surveying the market, comparing prices and sales terms etc.

0• <u>Buyer Seller Meet</u>: To meet various players in the value chain for building business contacts and enhance marketability.

The hard interventions proposed for the development of the cluster is given below:

- 0 → Baling Press (120 Kg.) facility
- 0- Grow Bag manufacturing facility
- 0 → 5 kg. Pith Block making facility
- 0 → 650 gm. Pith Briquette making facility
- 0 → Coco peat disc making facility

THEMATIC INTERVENTIONS

Cluster's active involvement and participation in activities such as national and international level brand promotion campaigns, New Media marketing, E-commerce initiatives etc. as proposed under the SFURTI implementation guidelines is projected as part of thematic interventions.

8 SOFT INTERVENTIONS

CAPACITY BUILDING

| S. N | lo | Particulars | |
|------|----|-----------------------------------|---|
| | 1 | Proposed Programme / Intervention | Trust Building and motivational programme |
| | 2 | Target group | Coir Entrepreneurs, coir workers and Raw material suppliers |
| Ī | 3 | No. of Batches | 2 |
| | 4 | Batch size | 50 nos |
| | 5 | Training content | Self & Group motivation |
| | 6 | Trainer / Training Institution | ITCOT Consultancy and Services Limited |
| | 7 | Cost of Training programme | Rs. 1,00,000/- |
| | 8 | Implementation timeline | Year I Quarter I |

| S. No | Particulars | |
|-------|-----------------------------------|--|
| 1 | Proposed Programme / Intervention | Awareness Programme |
| 2 | Target group | Coir Entrepreneurs, coir workers, Raw material suppliers |
| 3 | No. of Batches | 2 |
| 4 | Batch size | 50 nos |
| 5 | Training content | About Cluster concept, SFURTI scheme, and other Government schemes |
| 6 | Trainer / Training Institution | ITCOT Consultancy and Services Limited |
| 7 | Cost of Training programme | Rs. 1,00,000/- |
| 8 | Implementation timeline | Year I Quarter II |

| S. No | Particulars | |
|-------|-----------------------------------|---|
| 1 | Proposed Programme / Intervention | Entrepreneurship Development Programme |
| 2 | Target group | Coir Entrepreneurs |
| 3 | No. of Batches | 2 |
| 4 | Batch size | 25 nos |
| 5 | Training content | Motivation, Project Identification, Govt. Subsidy Schemes, Banker role in Industries, Government statutory approvals, Export Import procedures & Marketing. |
| 6 | Trainer / Training Institution | ITCOT Consultancy and Services Limited |

| 7 | Cost of Training programme | Rs. 1,00,000/- |
|---|----------------------------|----------------|
| 8 | Implementation timeline | Year I |
| | _ | Quarter III |

| S. N | No | Particulars | |
|------|----|-----------------------------------|--|
| | 1 | Proposed Programme / Intervention | |
| | | | Development Programme |
| | 2 | Target group | Coir Entrepreneurs |
| | 3 | No. of Batches | 2 |
| | 4 | Batch size | 25 nos |
| | 5 | Training content | Scope for Value added coir products, Technological inputs & feasibility inputs, Marketing strategies |
| | 6 | Trainer / Training Institution | ITCOT Consultancy and Services Limited |
| | 7 | Cost of Training programme | Rs. 2,00,000/- |
| ſ | 8 | Implementation timeline | Year I |
| | | | Quarter IV |

| S. No | Particulars | |
|-------|-----------------------------------|---|
| 1 | Proposed Programme / Intervention | Skill upgradation Programme |
| 2 | Target group | Coir workers |
| 3 | No. of Batches | 2 |
| 4 | Batch size | 20 nos |
| 5 | Training content | Skill Training for Grow Bag, Coco peat disc & Pith block making |
| 6 | Trainer / Training Institution | Coir Board (at CCRI, Alleppey) |
| 7 | Cost of Training programme | Rs. 3,00,000/- |
| 8 | Implementation timeline | Year I Quarter III & Quarter IV |

| S. No | Particulars | |
|-------|-----------------------------------|--|
| 1 | Proposed Programme / Intervention | Exposure tours |
| 2 | Target group | Coir Entrepreneurs |
| 3 | No. of Batches | as per requirement |
| 4 | Programme content | Visiting other Coir clusters |
| 5 | Coordinating Institution | ITCOT Consultancy and Services Limited |
| 6 | Cost of programme | Rs. 2,00,000/- |
| 7 | Implementation timeline | Year II |
| | | Quarter I |

MARKET PROMOTION

| S. N | No | Particulars | | | | |
|------|------------------------------|-----------------------------------|---|--|--|--|
| Ī | 1 | Proposed Programme / Intervention | Market study tours | | | |
| | 2 | Target group | Coir Entrepreneurs | | | |
| | 3 | No. of Batches | As per requirement | | | |
| | 5 Programme content | | To understand market dynamics, To interact with market intermediaries to understand the product wise market potential in potential market centers | | | |
| Ī | 4 | Coordinating Institution | IA & TA | | | |
| | 5 Cost of Training programme | | Rs. 3,00,000/- | | | |
| | 6 | Implementation timeline | Year II Quarter I & Quarter II | | | |

| S. No | Particulars | | | |
|-------|-----------------------------------|---|--|--|
| 1 | Proposed Programme / Intervention | Participation in Trade fairs | | |
| 2 | Target group | SPV members | | |
| 3 | No. of Batches | As per requirement | | |
| 5 | Programme objective | Participation, Exibit their products in stall and to create extensive marketing potential | | |
| 6 | Coordinating Organisation | Coir Board | | |
| 7 | Cost of Training programme | Rs. 5,00,000/- | | |
| 8 | Implementation timeline | Year II Quarter II & Quarter III | | |

| S. No | Particulars | | | |
|-------|-----------------------------------|----------------------------|--|--|
| 1 | Proposed Programme / Intervention | Buyer Seller Meet | | |
| 2 | Target group | SPV members | | |
| 3 | No. of Batches | As per requirement | | |
| 5 | Training content | Direct Contact with Buyers | | |
| 6 | Coordinating organisation | IA, TA & Coir Board | | |
| 7 | Cost of Training programme | Rs. 2,00,000/- | | |
| 8 | Implementation timeline | Year II | | |
| | | Quarter III & Quarter IV | | |

| S. N | No | Particulars | | | |
|------|--|-----------------------------------|---|--|--|
| | 1 | Proposed Programme / Intervention | Tie up with Business Development service(BDS) providers | | |
| | 2 Target group 3 No. of Batches 5 Training content | | SPV members | | |
| | | | As per requirement | | |
| | | | New Product development New design development | | |
| Ī | 6 | Coordinating Organisation | BDS providers | | |
| | 7 | Cost of Training programme | Rs. 5,00,000/- | | |
| | 8 | Implementation timeline | Year III Quarter I & Quarter II | | |

9 HARD INTERVENTIONS

CREATION OF COMMON FACILITY CENTRE:

Land: The land proposed have been leased for creating the Common Facility Centres in 2 different locations of the cluster. The details of land is given below:

| Land | Area of | Proposed CFC activities |
|-----------------------------------|--------------------|---|
| Thottanoothu Village, Dindigul | Extent 0.50 Acres | 120 Kgs. Baling Press |
| Adiyanuthu Village, Dindigul | 2.72 Acres | i)Grow Bag manufacturing facility ii) 5 kg. Pith Block making facility iii) 650 gms. Pith Briquette making iv)Coco peat disc making facility |

Location:

<u>Unit I</u>: The land proposed for 120 kgs. Baling press facility is in Thottanuthu village which is 8 kms. From Dindigul bus stand. It is situated between Dindigul – Natham Main Road. The labour force will be sourced from the nearby villages Koovanuthupudhur, Sandhaipatti, Alagarnaickenpatti, Nochi Odaipatti & Kurumbapatti.

<u>Unit II:</u> The land proposed for all other above mentioned facilities is in Adiyanuthu village which is 5 kms. From Dindigul bus stand. It is situated between Dindigul – A.Vellodu Main Road. A borewell of 600 feet is already available with soft water nature. The labour force will be sourced from Mottanampatti, Vedapatti, Thandakaranpatti & Narasingapuram.

Cost & Area of Building works:

| CFC activities | ilt up Area | Co | st of Building | |
|--|-------------|-------------|----------------|-----------------|
| | | (in Sq.ft) |) | (Rs. in Lakhs) |
| Unit I - 120 Kgs. Baling Press | | 5000 | | 40.00 |
| Unit II - Pith Value addition facilities: 1) Grow Bag 2) 5 kg. Pith Block 3) 650 gm. Pith Briquette & 4) Coco peat disc | | 6000 | | 48.00 |
| Drying yard | | 3000 | | 06.00 |
| Water Sump with sprinkler piping | | L.S. | | 2.00 |

| TOTAL | 96.00 |
|-------|-------|
| IOIAL | 70.00 |

I) Baling Press (120 Kgs.):

1. Project Description:

Fibre Baling press is hydraulically operated and it compresses loose fine coconut fibre into bales of fixed sizes and weights. The commonly used specification of fibre bale is 120 Kgs. as per the export market need and specification.

2. Project Justification:

There is a large scope of export market to the fibre. At present, the fibre is compressed into the bale of 120 Kgs. for export consignment. Due to the absence of baling press to make 120 Kgs. bales, the cluster people have to go to Theni or Rajapalayam, which involves higher transportation cost. There are 87 fibre extraction units in the district which would utilize this facility to a greater extent. In addition to the above, the fibre extraction units in Madurai and Sivagangai districts would also utilize this facility.

3. Proposed Machineries and Cost:

| S.I | No. | Machinery Description | Quantity | Total Price |
|-----|-----|------------------------------------|----------|----------------|
| | | | | (Rs. in Lakhs) |
| | 1. | Baling Press | 1 | 48.00 |
| | 2. | Automatic Forklift with Grapper | 1 | 18.00 |
| | 3. | Platform Scale | 1 | 00.50 |
| | 4. | Civil works for Machinery erection | | 05.00 |
| | | TOTAL | | 71.50 |

4. Installed Capacity & Utilization:

| Year | | 1 | | 2 | | 3 | | 4 | | 5 | |
|---|---|-------|-----|------|-----------|------|-------|------|----------|-----|-----|
| Installed Capacity per annual (in Bales) | m | 576 | 600 | 576 | 00 | 576 | 00 | 5760 | 00 | 576 | 600 |
| Capacity Utilization | | 60 | % | 709 | ½ | 809 | % | 90% | 6 | 90 | % |
| Production quantity per Annum (in Bales) | | 34560 | | 403 | 320 460 | | 46080 | | 40 | 518 | 340 |
| User charge realization (Rs. in Lakhs) | | 62. | .21 | 72.5 | 58 | 82.9 | 94 | 93.3 | 31 | 93. | 31 |

5. Operation and maintenance model:

The IA is responsible for the operation and maintenance of the CFC assets until scheme period and the SPV has to manage the entire operation on its own after project implementation period is over. The operation and maintenance cost is proposed to be managed with the income from the operations of the Common facilities through User fee.

6. Implementation timeline:

Year II – Quarter I (Total Project timeline is given in Chapter 13)

II. Grow Bag manufacturing facility:

1. Project Description:

Coco peat grow bags are used as plant substrates for soil less cultivation, largely used in greenhouses for growing vegetables such as Tomatoes, Paprika, Cucumber, Strawberries and cut flower production. The dried coir pith (Low EC) will be screened to remove the baby fibres, fines and stone with the help of screener and destoner automatically and feed it manually to the grow bag machine to make slabs. These slabs will be packed in UV treated poly bags and palettized.

2. Project Justification:

Effective utilization of available raw material resource (coir pith) in Dindigul, Theni, Madurai & Sivagangai districts. This facility is proposed in view of increased export earnings for the cluster.

3. Proposed Machineries & Cost:

| Sl | No. | Machinery Description | Q | uantity | Total Price |
|----|-----|---|---|---------|----------------|
| | | | | | (Rs. in Lakhs) |
| | 1. | Briquetting Machinery for Coir Pith Grow Slabs | | 2 | 53.00 |

4. Installed capacity & Production quantity:

| Year | 1 | | 2 | | 3 | 4 | 4 | | 5 | |
|--|------|------|----|----|-----|----|-----|----|-----|----|
| Installed Capacity per annum (in tons) | | 3600 | 36 | 00 | 360 | 00 | 360 | 00 | 360 | 00 |
| Capacity Utilization | | 60% | 70 | % | 80 | % | 90 | % | 90 | % |
| Production quantity per Annum (tons) | in Z | 2160 | 25 | 20 | 283 | 80 | 324 | 40 | 324 | 40 |

| (Rs. in Lakhs) | User charge realization (Rs. in Lakhs) | 64.80 | 75.60 | 86.40 | 97.20 | 97.20 |
|----------------|--|-------|-------|-------|-------|-------|
|----------------|--|-------|-------|-------|-------|-------|

5. Raw material availability:

The raw material required per ton of output is 1.350 Tonnes. The cost of raw material per ton is Rs.6500/-. The major raw material will be sourced from the cluster itself. In addition, it will be sourced from the districts Madurai, Theni & Sivagangai. The packing materials UV treated bags, Pallet base etc., will be sourced from the vendors outside.

6. Operation and maintenance model:

The IA is responsible for the operation and maintenance of the CFC assets until scheme period and the SPV has to manage the entire operation on its own after project implementation period is over. The operation and maintenance cost is proposed to be managed with the income from the operations of the CFC through User fee charges.

7. Implementation timeline:

Year II – Quarter II (Total Project timeline is given in Chapter 13)

III) 5 kg. Pith Block making facility:

1. Project Description:

The pith block making process involves receiving of pith, washing, drying, seiving and compacting as 5kg. block on user charge basis. This facility is proposed in view of increasing the profitability of the cluster.

2. Project Justification:

Effective utilization of available raw material resource (coir pith) in Dindigul, Theni, Madurai & Sivagangai districts. This facility is proposed in view of increased export earnings for the cluster.

3. Proposed Machineries & Cost:

| S.I | No. | Machinery Description | Quantity | Total Price |
|-----|---|----------------------------|----------|----------------|
| | | | | (Rs. in Lakhs) |
| | 1. | 5 Kg. block making machine | 1 | 13.00 |
| | 2. Assessories (Screener, Conveyor, Trolly e | | - | 03.50 |
| | 3. Tools & Handling Equipments (Weighing scale, Platform scale) | | - | 00.50 |
| | | TOTAL | | 17.00 |

4. Installed capacity & Production quantity:

The installed capacity for the proposed 5 Kg. pith block making facility is 4000 Kgs. per shift.

| Year | | 1 | | 2 | | 3 | | 4 | | 5 | ı |
|--|----|-----|----|------|----|------|----|------|-----|------|----|
| Installed Capacity per annu (in tons) | ım | 360 | 00 | 360 | 00 | 360 | 00 | 360 | 0 | 360 | 00 |
| Capacity Utilization | | 60 | % | 709 | ⁄o | 809 | % | 90% | o o | 909 | % |
| Production quantity per Annum (in tons) | | 210 | 60 | 252 | 20 | 288 | 30 | 324 | 0 | 324 | 10 |
| User charge realization (Rs. in Lakhs) | | 32. | 40 | 37.8 | 30 | 43.2 | 20 | 48.6 | 00 | 48.0 | 50 |

5. Raw material availability:

The raw material required per ton of output is 1.200 Tonnes. The cost of raw material per ton is Rs.6500/-. The major raw material will be sourced from the cluster itself. In addition, it will be sourced from the districts Madurai, Theni & Sivagangai.

6. Operation and maintenance model:

The IA is responsible for the operation and maintenance of the CFC assets until scheme period and the SPV has to manage the entire operation on its own after project implementation period is over. The operation and maintenance cost is proposed to be managed with the income from the operations of the Common facilities through User fee.

7. Implementation timeline:

Year II – Quarter II & Quarter III (Total Project timeline is given in Chapter 13)

IV. 650 gm. Pith Briquette making facility:

1. Project Description:

This process is similar to the above mentioned 5kg pith block making but for the size of the pith block, which is 650 gm. in this process. This facility would result in increased export earnings of the cluster and increased marketability of the product.

2. Project Justification:

Effective utilization of available raw material resource (coir pith) in Dindigul, Theni, Madurai & Sivagangai districts. This facility is proposed in view of increased export earnings for the cluster.

3. Proposed Machineries & Cost:

| S.I | No. | Machinery Description | Quantity | Total Price |
|-----|-----|------------------------------|----------|----------------|
| | | | | (Rs. in Lakhs) |
| | 1. | 650 gm. block making machine | 2 | 20.00 |
| | 2. | Shrink wrapping machine | 2 | 03.50 |
| | | TOTAL | | 23.50 |

4. Installed capacity & Production quantity:

| Year | | 1 | | 2 | | 3 | | 4 | | 5 | |
|--|---|------|-----|------|----|------|----|------|----|-----|-----|
| Installed Capacity per annur (in tons) | n | 36 | 00 | 360 |)0 | 360 | 00 | 360 | 0 | 36 | 00 |
| Capacity Utilization | | 60% | | 70% | | 80% | | 90% | | 90% | |
| Production quantity per Annum (in tons) | | 2160 | | 252 | 20 | 288 | 30 | 3240 | | 32 | 40 |
| User charge realization (Rs. in Lakhs) | | 43. | .20 | 50.4 | 40 | 57.0 | 60 | 64.8 | 30 | 64 | .80 |

5. Raw material availability:

The raw material required per ton of output is 1.200 Tonnes. The cost of raw material per ton is Rs.6500/-. The major raw material will be sourced from the cluster itself. In addition, it will be sourced from the districts Madurai, Theni & Sivagangai.

6. Operation and maintenance model:

The IA is responsible for the operation and maintenance of the CFC assets until scheme period and the SPV has to manage the entire operation on its own after project implementation period is over. The operation and maintenance cost is proposed to be managed with the income from the operations of the Common facilities through User fee.

7. Implementation timeline:

Year II – Quarter II & Quarter III (Total Project timeline is given in Chapter 13)

V) Coco peat disc making facility:

1. Project Description:

Coco peat disc is an eco friendly and bio degradable product. It is an excellent soil conditioner and a high water retention one. Cocopeat disc is most suitable for individual and quick seed germination.these are used in nurseries as a growing medium for plants.

2. Project Justification:

Effective utilization of available raw material resource (coir pith) in Dindigul, Theni, Madurai & Sivagangai districts. This facility is proposed in view of increased export earnings for the cluster.

3. Proposed Machineries & Cost:

| S. | No. | Machinery Description | Qι | ıantity | Total Price |
|----|-----|-------------------------------|----|---------|----------------|
| | | | | | (Rs. in Lakhs) |
| Ī | 1. | Coco peat disc making machine | | 1 | 10.00 |

4. Installed capacity & Production quantity:

| Year | 1 | | | 2 | | 3 | | 4 | | 5 | |
|---|----|-----|----------|-----|----------|-----|----|------|----|-----|----|
| Installed Capacity per annu (in tons) | ım | 900 | 00 | 900 | 00 | 900 | 00 | 9000 | 00 | 900 | 00 |
| Capacity Utilization | | 60% | 6 | 709 | % | 809 | % | 90% | 6 | 909 | % |
| Production quantity per Annum (in tons) | | 540 | 00 | 630 | 00 | 720 | 00 | 8100 | 00 | 810 | 00 |
| User charge realization (Rs. in Lakhs) | | 5.4 | 0 | 6.3 | 0 | 7.2 | 0 | 8.10 | 0 | 8.1 | 0 |

5. Raw material availability:

The raw material required per ton of output is 1.200 Tonnes. The cost of raw material per ton is Rs.6500/-. The major raw material will be sourced from the cluster itself. In addition, it will be sourced from the districts Madurai, Theni & Sivagangai.

6. Operation and maintenance model:

The IA is responsible for the operation and maintenance of the CFC assets until scheme period and the SPV has to manage the entire operation on its own after project implementation period is over. The operation and maintenance cost is proposed to be managed with the income from the operations of the Common facilities through User fee.

7. Implementation timeline:

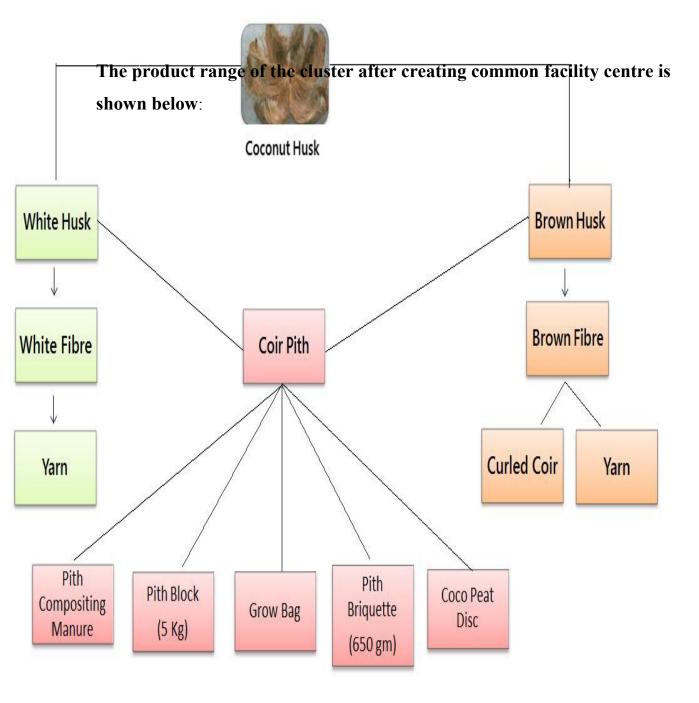
Year II – Quarter III & Quarter IV. (Total Project timeline is given in Chapter 13)

Vehicles for Pith Handling (CFC internal & User units)

As the project is completely pith oriented, the following vehicles are proposed for internal pith handling within the CFC and also for transport of pith from the member/user units.

| S.No | o. I | Machinery | Utility | Qu | antity | To | tal Price |
|------|-----------|--------------|--|----|--------|----------|-----------|
| | | Description | | | | | (Rs.) |
| • | 1 | Tractor | To transport Coir Pith from us | 1 | | 7,95,000 | |
| Ī | 2 | Trailer | units | 1 | | 1,50,000 | |
| | 3 | Mini tractor | For ploughing dried pith in Clyard | FC | 1 | | 3,15,000 |
| | 4 Hackler | | For hackling the dried pith for further processing | r | 1 | | 25000 |
| | | | Total | | | | 1285000 |

Since the whole CFC operation is PITH based, the movement of pith is the point of concern as indicated by prospective user units. In order to address the issue, vehicles for transport of pith to CFC is proposed and the transport cost is collected along with the user fee charges for the CFC utilization.



10 PROJECT COST AND MEANS OF FINANCE (Core SFURTI)

The estimated project cost based on the computations of the project interventions and the means of finance for the project is given

below:

| | Proposed Interventions Project Cost | GOI Share Si (Rs.Lakhs) | PV Share (in lakl |
|-------|--|------------------------------|----------------------|
| 1 | SOFT INTERVENTIONS | | |
| 1.1 | Capacity Building | | |
| 1.1.1 | Trust building and motivational programme | 1.00 | 1.00 |
| 1.1.2 | Awareness Programme | 1.00 | 1.00 |
| 1.1.3 | Entrepreneurship Development Programme | 1.00 | 1.00 |
| 1.1.4 | Technology based EDP | 2.00 | 2.00 |
| 1.1.5 | Skill Upgradation Programme | 3.00 | 3.00 |
| 1.1.6 | Exposure Tour | 2.00 | 2.00 |
| | Total Capacity Building cost | 10.00 | 10.00 |
| 1.2 | Market Promotion | | |
| 1.2.1 | Market Study Tour | 3.00 | 3.00 |
| 1.2.2 | Participation in Trade fairs | 5.00 | 5.00 |
| 1.2.3 | Buyer Seller Meet | 2.00 | 2.00 |
| 1.2.4 | Tie up with Business Development Service (BDS) providers | 5.00 | 5.00 |
| | Total Market Promotion cost | 15.00 | 15.00 |
| | Total Soft Interventions Cost | 25.00 | 25.00 |

CONTD...

| HARD INTE | <u>ERVEN</u> | TIONS | | |
|-----------|--------------|--|--------|--------|
| | 2.1 | Building for CFC | 96.00 | 72.0 |
| | 2.2 | Machinery & Other infra for Common Facility Proposed | | |
| | 2.2.1 | Baling Press (120 Kgs) facility | 72.10 | 54.07 |
| | 2.2.2 | Grow bag manufacturing facility | 53.60 | 40.20 |
| | 2.2.3 | 5 Kg. Pith block making facility | 17.60 | 13.20 |
| | 2.2.4 | 650 gm. Pith briquette making facility | 24.10 | 18.08 |
| | 2.2.5 | Coco peat disc making facility | 10.60 | 07.95 |
| | 2.2.6 | Electricals & Accessories | 15.00 | 11.25 |
| | | (incl. borewells, pumps, etc.,) | | |
| | 2.2.7 | Vehicles (for pith handling) | 13.00 | 09.75 |
| | | Total Machinery & other infra cost | 206.00 | 154.50 |
| | | TOTAL HARD INTERVENTIONS COST | 302.00 | 226.50 |
| | | | | |
| | | TOTAL INTERVENTIONS COST (SOFT & HARD) | 327.00 | 251.50 |
| | 3 | Other Project Components | | |
| | 3.1 | Land Lease (3.22 acres – 15 years lease) | 00.50 | Nil |
| | 3.2 | Contingencies, Deposits & Preoperative expenses | 10.00 | |
| | 3.3 | Working capital | 12.00 | |
| | | Total Other Project Components | 22.50 | |
| 1 | 4 | | 20.12 | 20.12 |
| | 4 | Cost of TA (8% of Total Interventions) | 20.12 | 20.12 |
| | 5 | Cost of IA/SPV including CDE | 20.00 | 20.00 |
| | | TOTAL PROJECT COST | 389.62 | 291.62 |

11 PLAN FOR CONVERGENCE OF INITIATIVES

The initiatives for convergence of schemes and leveraging of resources from various sources are under exploration viz.

- 0—Dovetailing the benefits of other Coir Board schemes such as Coir Udyami Yojana, Export market promotion scheme etc. and also from other MSME schemes such as NEEDS, Capital subsidy scheme etc. to cluster members
- 0-Exploring the opportunities for private sector participation in the cluster development project
- 0-Exploring Corporate Social Responsibility (CSR) foundations with proven track record for additional funding.
- 0—Exploring the possibilities to dovetail funds from various state and central government schemes over and above the funds sanctioned for SFURTI scheme (without duplication of funding for a specific project component).

The above initiatives would be undertaken with the participation of stakeholders on approval of the project and the same would be included in the Detailed Project Report.

12 ENHANCED PROJECT COST AND MEANS OF FINANCE

The Project cost and Means of Finance of CORE SFURTI project is illustrated in

Chapter 10. Convergence of initiatives such as Dovetailing the benefits of other Coir Board schemes such as Coir Udyami Yojana, Export market promotion scheme etc. and also from other MSME schemes such as NEEDS, Capital subsidy scheme etc. to cluster members, would be undertaken to improve the viability of projects, strengthening the value chains and market linkages and to enable the overall improvement of the level of human development in the area.

13 PROJECT TIMELINE

The project implementation schedule with details of the activities to be undertaken and the expected time frame (quarter wise) for each activity is given below:

| S.No. | Proposed Interventions | | Period | | |
|-------|---|------|---------|--|--|
| | | Year | Quarter | | |
| 1 | SOFT INTERVENTIONS | | | | |
| 1.1 | Capacity Building | | | | |
| 1.1.1 | Trust building and motivational programme | I | Q1 | | |
| 1.1.2 | Awareness Programme | I | Q2 | | |
| 1.1.3 | Entrepreneurship Development Programme | I | Q3 | | |
| 1.1.4 | Technology based EDP | I | Q4 | | |
| 1.1.5 | Skill Upgradation Programme | I | Q3,Q4 | | |
| 1.1.6 | Exposure Tour | II | Q1,Q3 | | |
| | | | | | |
| 1.2 | Market Promotion | | | | |
| 1.2.1 | Market Study Tour | II | Q1,Q2 | | |
| 1.2.2 | Participation in Trade fairs | II | Q2,Q3 | | |
| 1.2.3 | Buyer Seller Meet | II | Q3,Q4 | | |
| 1.2.4 | Tie up with Business Development Service | III | Q1,Q2 | | |
| | (BDS) providers | | | | |
| | | | | | |
| 2 | HARD INTERVENTIONS | | | | |
| 2.1 | Land Lease | Ι | Q1 | | |
| | (3.22 acres – 15 years lease) | | | | |
| 2.2 | Building for CFC | I | Q3,Q4 | | |
| 2. | 3 Machinery for Common Facility Proposed | | | | |
| 2.3.1 | Baling Press (120 Kgs.) facility | II | Q1 | | |
| 2.3.2 | Grow bag manufacturing facility | II | Q2 | | |
| | | | | | |
| 2.3.3 | 5 Kg. Pith block making facility | II | Q2,Q3 | | |
| 2.3.4 | 650 gm. Pith briquette making facility | II | Q3,Q4 | | |
| 2.3.5 | Coco peat disc making facility | II | Q3, Q4 | | |

| | | | | | Year | | | | | | | | | |
|--|----------------|--|----|-----|------|----|----|-----|----|----|----|----|----|----------------|
| Yea | r 1 | | | Yea | r 2 | 20 | | - 3 | 3 | | | | | |
| Project activity | | | | | | | | | | | | | | |
| SOFT | | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q ² |
| INTERVENTIONS | | | | | | | | | | | | | | |
| Capacity Building | | | | | | | | | | | | | | |
| Trust building and motivational | | | | | | | | | | | | | | |
| programme | | | | | | | | | | | | | | |
| Awareness Programme | | | | | | | | | | | | | | |
| Entrepreneurship Development | | | | | | | | | | | | | | |
| Programme | | | | | | | | | | | | | | |
| Technology based | | | | | | | | | | | | | | |
| EDP | | | | | | | | | | | | | | |
| Skill Upgradation | | | | | ÷ | | | | | | | | | |
| Programme | | | | | | | | | | | | | | |
| Exposure Tour | | | | | | | | | | | | | | |
| Market Study Tour | | | | | | | | | | | | | | |
| Participation in Trade fairs | | | | | | | | | | | | | | |
| Buyer Seller Meet | | | | | | | | | | | | | | |
| Tie up with Business Development Service | | | | | | | | | | | | | | |
| (BDS) providers | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| HARD | | | | 0 | | | | - | | | | | | |
| INTERVENTIONS | | | | | | | 10 | | | | | | | |
| Building for CFC | | | | | | | | | | | | | | |
| Baling Press (120 Kgs) facility | | | | | | | | | | | | | | |
| Grow bag manufacturing facility | 5 | | | | | | | | | | | | | |
| 5 Kg. Pith block making facility | | | | | | | | | | | | | | |
| 650 gm. Pith block making facility | | | | | | | | | | | | | | |

Coco peat disc making facility

14. DETAILED BUSINESS PLAN

The cost of production and profitability projection are presented in Statement-3. The assumptions for working the cost of production & profitability are given below:

| Installed Capacity | | |
|--|--------------|--------------|
| Installed Capacity a. Coir Fibre baling (120 Kgs.) | | |
| facility | | |
| Installed Capacity per shift | 192.00 | No. of bales |
| Number of shifts per day | 1 | |
| Number of days per annum | 300 | days |
| Installed Capacity per annum | 57600 | No. of bales |
| Charges on User fee basis | Rs. 180.00 | per bale |
| b. Grow bags | | |
| Capacity per machine per shift | 3 | Tons |
| Number of machines | 2 | |
| Number of shifts per day | 2 | |
| Number of days per annum | 300 | |
| Installed Capacity per annum | 3600 | Tons |
| Charges on User fee basis | Rs. 3,000.00 | per Ton |
| c. Coir Pith Block (5 Kgs.) | | |
| Capacity per machine per shift | 6 | Tons |
| Number of machines | 1 | |
| Number of shifts per day | 2 | |
| Number of days per annum | 300 | |
| Installed Capacity per annum | 3600 | Tons |
| Charges on User fee basis | Rs. 1,500.00 | per Ton |
| d. Coir Pith Briquettes (650 gms.) | | |
| Capacity per machine per shift | 3000 | Kgs. |
| Number of machines | 2 | |
| Number of shifts per day | 2 | |
| Number of days per annum | 300 | |
| Installed Capacity per annum | 3600 | Tons |
| Charges on User fee basis | Rs. 2,000.00 | per Ton |
| d. Coco Peat Disc | ĺ | |
| Capacity per machine per shift | 300 | Kgs. |
| Number of machines | 1 | |
| Number of shifts per day | 1 | |

| Number of days per annum | 300 | |
|---------------------------------|-----------|---|
| Installed Capacity per annum | 90000 | Kgs. |
| Charges on User fee basis | Rs. 10.00 | per Kgs. |
| | | |
| Capacity Utilisation | | |
| - First year | 60% | |
| - Second year | 70% | |
| -Third year | 80% | |
| -Fourth year onwards | 90% | |
| Power Cost | Rs.6.50 | per KWH |
| Repairs & Maintenance | 2.00% | of P&M cost in the first year of operation and 20% increase in every subsequent years |
| Lease Rental for Land (Unit I) | Rs. 2,000 | per month in the first year and 10% increase in every subsequent years |
| Lease Rental for Land (Unit II) | Rs. 3,000 | per month in the first year and 10% increase in every subsequent years |
| Administrative Expenses | 1.00% | Of sales realisation |
| Selling Expenses | 2.00% | Of sales realisation |

The project financials comprises the following statements, which are enclosed in the Annexure separately:

Statement 1: Cost of Project and Means of Finance

Statement 1.1: Estimation of Deposits / Advances

Statement 1.2: Preliminary and Preoperative Expenses

Statement 2: Assessment of Working Capital Statement 3:

Cost of Production & Profitability

Statement 4: Assumptions for Cost of Production and Profitability

Statement 5: Calculation of Income Tax

Statement 6: Estimation of Power Cost

Statement 7: Manpower Requirement and Estimation of Cost

Statement 8: Estimation of Depreciation

Statement 9: Projected Cash-Flow Statement

Statement 10: Projected Balance Sheet Statement

11: Estimation of Break-Even Point

Statement 12: Estimation of Net Present Value and Internal Rate of Return

Statement 13: Sensitivity Analysis

15 PROPOSED IMPLEMENTATION FRAMEWORK

15.1 Role of Implementing Agency

The role and responsibility of the IA includes the following:

- 1. Recruit a full time CDE preferably one amongst the stakeholders who has the desired knowledge and capability in order to ensure efficient implementation of the project
- 2. The IA would implement various interventions as outlined in the approved DPR
- 3. Undertake procurement and appointment of contractors, when required, in a fair and transparent manner
- 4. The IA will enter into an agreement with the Nodal Agency for timely completion on cluster intervention and proper utilization of Government Grants
- 5. Operation & Maintenance (O&M) of assets created under the project by way of user-fee based model
- 6. Responsible for furnishing Utilization Certificates (UCs) and regular Progress reports to Nodal Agency in the prescribed formats.

15.2Details of Strategic Partners

The cluster is proposed to be developed under SFURTI (Scheme of Fund for Regeneration of Traditional Industries). The Coir Board is the Nodal agency (NA) and ITCOT Consultancy and Services Limited is the Technical Agency (TA) appointed by Coir Board. The Implementing agency is Small Industries Product Promotion Organisation (SIPPO), Madurai. The above agencies work in tandem towards the successful implementation of the project in a sustainable manner.

15.3 Structure of the SPV

The SPV is formed and registered as Private Limited Company under Companies Act 2013 in the name of 'DINDIGUL COIR CONSORTIUM PRIVATE LIMITED as per the Certificate of Incorporation issued by Registrar of Companies, Coimbatore dated 22.05.2015. The CIN of the company is U37100TZ2015PTC021408.

15.4 Composition of the SPV

An SPV is formed with 4 members initially and subsequently 18 members have been included. The list of members and office bearers are given below:

| S. | | Name | Designation | Present Activity | | | |
|----|-----|------------------------|-------------------|-----------------------------|--|--|--|
| | No. | | | | | | |
| ļ | 1 | K.Malkar Sayabu | Chairman | Coir Fibre mfg. | | | |
| Ì | 2 | A.S.Mohamed Usman | Managing Director | Coir Fibre & Pith block mfg | | | |
| ļ | 3 | M.Sheik Mujipur Rahman | Director | Coir Fibre mfg. & yarn spg. | | | |
| ļ | 4 | Ks.Senthil kumar | Director | Coir Fibre & Pith block mfg | | | |
| ļ | 5 | J.Ravindran | Member | Coir Fibre mfg. | | | |
| ļ | 6 | A.Antony | Member | Coir yarn spg | | | |
| ļ | 7 | N.Suriyan | Member | Coir Fibre mfg. | | | |
| Ì | 8 | P.Mohan | Member | Coir Fibre mfg. | | | |
| Ì | 9 | N.Vijayan | Member | Coir Fibre mfg. | | | |
| İ | 10 | A.Manickam | Member | Coir Fibre mfg. | | | |
| Ì | 11 | N.Rizwan | Member | Coir yarn spg. | | | |
| Ì | 12 | M.Syed Mohamed | Member | Coir Fibre mfg. | | | |
| ļ | 13 | B.Manimegalai | Member | Coir Fibre mfg. | | | |
| ļ | 14 | M.Aishaa | Member | Coir yarn | | | |
| ļ | 15 | A.S.Najma | Member | Coir yarn | | | |
| ļ | 16 | R.Rathimala | Member | Coir yarn | | | |
| Ì | 17 | S.Shafin | Member | Coir yarn | | | |
| ļ | 18 | A.Palaniappan | Member | Coir Fibre mfg. | | | |
| ļ | 19 | Selvarani | Member | Coir Fibre mfg. | | | |
| ļ | 20 | P.Manikandan | Member | Coir yarn | | | |
| ļ | 21 | N.Balachander | Member | Coir Fibre mfg. | | | |
| İ | 22 | Karthikeyan | Member | Coir pith mfg. | | | |
| | | | | | | | |

16 EXPECTED IMPACT

- 0-Unique space in global fibre market, because of price competitiveness due to the establishment of 120 Kg. fibre baling facility.
- 0—Effective utilization of pith generated from fibre extraction units, resulting in increased cluster earnings by 20-25%.
- 0–Post interventions, the Cluster's export earnings will be increased by 15-20%
- 0—Expansion of activities by existing fibre extraction units to value added pith based activities, as no additional fixed investment is required for the same, due to the
- common facility created for manufacture of value added pith based products to operate on User fee charge basis
- 0– Emergence of more number first generation new entrepreneurs utilizing the CFC, with minimum investment, who purchase the pith, get it converted to value added product on User fee basis in the CFC, and market it globally.
- 0– Emergence of specialized support service providers and their active involvement in the development process
- 0-Establishment of new units by converging various schemes of State and Central Governments (such as Coir Udyami Yojana, NEEDS, PMEGP, UYEGP, etc.)

resulting in additional investments in Coir sector by the cluster members

0– Improved access to financial capital for cluster members