### APPENDIX- I

**VILLAGE CODE AND SERIAL NO OF CHAMARAJANAGAR DISTRICT -1981**

List of Sample Taluks and villages

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Chamarajanagar.</td>
<td>a) Amachavadi</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Badanaguppe</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c) Chandakavadi</td>
<td>158</td>
</tr>
<tr>
<td></td>
<td></td>
<td>d) Harve</td>
<td>77</td>
</tr>
<tr>
<td></td>
<td></td>
<td>e) Karinanjanapura</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>f) Kuderu</td>
<td>144</td>
</tr>
<tr>
<td></td>
<td></td>
<td>g) Ummathuru</td>
<td>146</td>
</tr>
<tr>
<td></td>
<td></td>
<td>h) Sagde</td>
<td>97</td>
</tr>
<tr>
<td></td>
<td>Gundlupet.</td>
<td>a) Belachalavady</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Honnegowdanahalli</td>
<td>159</td>
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<tr>
<td></td>
<td></td>
<td>c) Madralli</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td></td>
<td>d) Somahalli</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>e) Thondavadi</td>
<td>43</td>
</tr>
<tr>
<td></td>
<td></td>
<td>f) Malavalli</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td></td>
<td>g) Bendagalli</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>Kollegal.</td>
<td>a) Ikkadahalli -</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Kamagera.(Kongaralli)</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td></td>
<td>c) Playa</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>d) Sattegala</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td></td>
<td>e) Singanalluru</td>
<td>31</td>
</tr>
<tr>
<td>4.</td>
<td>Yalandur.</td>
<td>a) Honnuru</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) Kestthur.</td>
<td>25</td>
</tr>
</tbody>
</table>

Total sample villages surveyed 22: Chamarajanagar –08, Gundlupet – 07, Kollegal –05 and Yalandur-02.
APPENDIX- II

QUESTIONNAIRE.

I. Identification:  
   a) Village---------------
   b) Taluk---------------

II. General Information:  
   a) Name of the Respondent (Farmer)--------
   b) Particulars of family members---------

<table>
<thead>
<tr>
<th>Slno.</th>
<th>Name</th>
<th>M/F.</th>
<th>Age</th>
<th>Occupation/Education.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

1) Are you member of any village co-operative society? Yes/No.  
   Reason: 

2) Did you get any kind of help from the agricultural extension officers/village level workers Yes/No.  

3) Type of house you have? Yes/No  
   a. Hut  
   b. Country tiled  
   c. Mangalore tiled  
   d. Concrete

4) Do you possess the following articles? Yes/No  
   a). Cycle  
   b). Moped  
   c). Scooter  
   d). Tailoring machine  
   e). Radio  
   f). T.V.

III. LAND PARTICULARS:  

1) Land (Acre) Wet, Dry, Garden cultivated.  
   Possessed:  
   Owned:  
   Leased:  
   Let out:  
   Total:  

2) Source of irrigation and extent of area in acres: Yes/No  
   Reason:  
   a) Well  
   b) Tube well  
   c) Canals  
   d) Tank  
   e) Lift irrigation

3) Have you installed oil engine or electric motor? Yes/No  
   If no give the reason:-----------------------
IV: MULBERRY CULTIVATION:
1) Do you have any portion of your land under mulberry cultivation? Yes/No.
If yes, extent of the areas in acres (Total)
Irrigated---------------------
Un irrigated---------------------

Variety:
 a.  
 b.  
 c.  
 d.  

2) Cost of establishment of mulberry garden:

<table>
<thead>
<tr>
<th>Slno.</th>
<th>Particulars</th>
<th>quantity</th>
<th>cost (in Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Land preparation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Human labour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii)</td>
<td>Bullock Labour</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

b) Manuring and fertilizers.
c) Irrigation charges
d) Labour for manuring
e) Planting charges
f) Labour for mulberry cutting & planting

3) Place of obtaining mulberry seed cuttings: Govt/ Private.
   a) Place---------------------
   b) Distance (K.M.)----------

4) Total cutting of seed cutting required for one acre and its cost:
   a) Quantity (kgs)---------  b) cost (Rs)-----------

5) Transport cost for seed cutting for one acre------------------

6) Method of propagation of mulberry.
   a) Pit system/ Row system.

7) Variety seeding obtained: Indigenous/ HYVs.

8) Total labour required for various operation of mulberry cultivation (planting, weeding, pruning, manure etc.) and their cost per acre, per year.

| a) Male Labour:          |
| Female Labour:           |
| Bullocks:                |
V. ASSISTANCE REQUIRED FOR FARM DEVELOPMENT:

1. What type of assistance do you require for mulberry garden development
   a) More Land  Yes/No: Reason:-

   b) Irrigation: well/Tank/canal
      Reason:
      i. New well for Irrigation.
      ii. Well renovation
      iii. Pump set

c) Do you need loan for farm development?
   If yes, which one do you prefer?
   i. Bank: Reason:
   ii. Co-operation society. Reason:
   iii. Money lender. Reason:

d) Seeds and Fertilizers
c) Bullocks
f) Bullock cart
g) Marketing facilities
h) Others if any

VI. INPUTS.

1. Do you use improved sericultural implements: Yes/No.
   Reason:
2) Do you use chemical fertilizers: Yes/No.
   Reason:
3) Purchase from: a) shop.... b)society.... c) others........
   Reason:

4) Do you use pesticides? Yes/No
   Reason:

VII. CASH CREDIT:

1. Source of loan taken Amount purpose
   a. Private Rs:
   b. Commercial bank Rs:
   c. Co-operative bank Rs:
   d. Co-operative society Rs:
   e. Others Rs:
2. Did you avail loan from the Government? Yes/No.
   Reason and purpose:

3. Did you get subsidy? Yes/No
   Reason:

4. Do you require further loan? Yes/No
   If yes, a) Money lender. b) Commercial bank c) co-operative society

VIII. CROPPING PATTERN:

1. Do you practice rotation crops? Yes/No
   Name of the crop. Area sown. Last year. Present year (Yield/acre)
   a). 
   b).
   c).
   d).

2. How many years do you let in the mulberry plants in the same garden?
3. How many mulberry crops do you take in a year?
   a). If irrigated................. b). Indigenous...................
   c). If unirrigated............. C). Hybrid....................

4. What is the total expenditure incurred for one acre of mulberry cultivation per year Rs............
5. What is the total income do you get from one acre of mulberry cultivation per year?
   By letting put mulberry garden. Rs.............

6. Method of mulberry leaf harvesting
   a. Leaf picking
   b. Shoot cutting
   Reason:-
   i.
   ii.

7. Loss of leaves by disease per year
   a. Type of diseases
   b. Total loss of leaves in (Kgs)........

8. Cost of mulberry leaves per 100 Kgs (Rs.)..........
   a) Indigenous b) Hyvs c) Irrigated d) Rainfed

9. Daily wages for harvesting leaves
   a. Male.. Rs.......... 
   b. Female......... Rs..........
IX. SILKWORM REARING.

1. Do you rear silkworm? Yes/No
   Reason:

2. Place of purchasing silkworm eggs(seed) Govt/ private grainages.
   a). Distance (in Km).........
   b). Transport cost (Rs)....... 

3. Types of silkworm seeds purchased.
   Reason:-
   i.
   ii.
   iii.

4. Cost of silkworm seeds per 100 disease free livings:
   a) Cross breed (Rs)...... b). Improved (Rs)........ C) Improved (Rs).........

5. Have you installed thermometer and hygrometer in rearing house to record the
   temperature and humidity? Yes/ No
   Reason:-
   a).
   b).

6. Do you have trays owned (Round): Yes/No.
   a). Bamboo..............
   b). Wooden.............
   If No: Reason:...........................................


<table>
<thead>
<tr>
<th>Slno.</th>
<th>Particulars</th>
<th>Qty.</th>
<th>Amount (Rs)</th>
<th>Expected no of Crops to be rear.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>Rearing house rent.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>Rearing stand.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td>Poles for stand.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d.</td>
<td>Chopping knife.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e.</td>
<td>Nylon net.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8. Total cost of silkworm rearing per crop of ........ layings.

<table>
<thead>
<tr>
<th>Slno.</th>
<th>Particulars</th>
<th>Unit</th>
<th>Qty.</th>
<th>Amount (Rs).</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>Layings:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>Mulberry leaves:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td>Labour:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i.</td>
<td>Instar:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ii. Labour for transferring rapid worms to mountages:

iii. Labour for harvesting and begging:

iv. Transportation charges:

v. Crop harvested (cocoons)

9. Gross Returns:

   i. By sale of cocoons (Rs)
   ii. By sale of byproducts (Rs)

   Total:

10. What type of accommodation you use for rearing:

   a. Separate house/ rooms
   b. Living house
   c. Any other place

   Reason:

11. What type of rearing you adopted, Shelf/ Tray/ Floor.

   Reason:

12. How do you clean the litter, Hand/Nets.

   Reason:

   a).
   b).
   c).

13. Total number of crops lost due to disease and pests per/ year.

   a. Completely/ partially.

14. Have you taken any preventive measures to control disease and pests:

   Yes/ No, Reason:

   a.
   b.
   c.

   vii
16. Method (new techniques) of silkworm rearing and yield per 100 dfls.

Traditional(Kgs).............. Modern (Kgs)..............
Reason:
i).
iit).

17. Any technical guidance obtained from sericulture experts regarding the new techniques of silkworm rearing. Yes/ No.

Reason:
i).
iit).

18. Number of Chandrikas (Mountages) used for 100 dfls.
   a). Owned :.................... b). Hired......................

19. Number of crops (worm rearing) taken per year from one acre:...............  
20. Total income from one acre per year Rs........................................
21. Total number of worms mounted in a Chandrikas (Kg).........

X. Sericultural Implements:

1. Do you practice sericulture: Mulberry gardening/ silkworm rearing/ both.

Reason:
a.  
b.  

2. Did you receive any training in Sericulture. Yes/ No.
   If yes:
   a). Where and period:  
   b). Nature of training:  

3. Do you prefer sericulture to improve your family income. Yes/ No.

Reason:-
If yes, which do you prefer?

4. Do you use improved sericultural implements Yes/ No
Reason:
a.  
b.  

viii
5. From how long you have experience in sericulture.............. Years.
6. Whether sericulture is the main occupation or subsidiary occupation.
   Main/ Subsidiary.
   Reason:-
   a.
   b.

7. Do you have a pair of bullock? Yes/No. Reason:--------------
8. Do you have a wooden plough? Yes/No. Reason:--------------
9. Do you have an iron plough? Yes/No. Reason:--------------
10. Do you have a tractor Yes/No. Reason:--------------
11. Do you have a sprayer. Yes/No. Reason:--------------

12. Do you receive any guidance from extensive official of sericulture dept: Yes/No.
   Type:
   a.
   b.
   c.

13. Number of people engaged in your family?
   a. Male:.......... b. Female: ...........

14. Do you make use of the facilities of CSB? Yes/No.
   Reason:
   a.
   b.

15. Would you like to give any suggestion or revisal any other information, which is
    necessary for the development of sericulture in general, and for your village/ block in
    particular.................................................................
16. Any chawki rearing centers found in your villages? 
   a. State Govt........ b. CSB...........

17. Any cocoon market found in your village: Yes/ No.
18. Place of marketing of cocoon and its distance............
19. Whether cocoon is sold in the government notified, cocoon markets?
   a. Govt notified market b. Middleman.

20. Total market fee collected from cocoon products per year............
21. Price of cocoon fixed at cocoon market per (kg):
   a. Indigenous:
   b. Improved crossbreed:
   c. Bivoltine hybrid:
22. Total expenditure (input) for rearing 100 dfls:
   a. Crossbreed (Rs)............ , b. Hybrid(Rs).................
23. Total income (Output) released by selling cocoons of 100 dfls:
   a. Crossbreed (Rs)............., b. Hybrid(Rs)...............  
24. Net profit released from cocoons of 100 Dfls.
   a. Hybrid ..................(Rs) b. indigenous ..............(Rs). c. Cross breed.............

Income obtained from cocoon and other cereal /per/ hect.

<table>
<thead>
<tr>
<th>Slno</th>
<th>Name of the crops</th>
<th>Income</th>
<th>Expenditure</th>
<th>Netprofit</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Cocoon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii.</td>
<td>Paddy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii.</td>
<td>Ragi</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iv.</td>
<td>Cotton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V.</td>
<td>Sugarcane</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

25. Cost of production of each crop /kg (Rs)..........................
   i. Jowar
   ii. Paddy
   iii. Ragi
APPENDIX –III

TABLE: 3.2 AREAS, COCOON AND SILK PRODUCTION IN CHAMARAJANAGAR DIST.

<table>
<thead>
<tr>
<th>Taluks</th>
<th>Area (hectars)</th>
<th>Cocoon production (tons)</th>
<th>No. of sirculturist</th>
<th>Silk production value (Rs in lac)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chamarajanagar</td>
<td>8897.87 (61.83)</td>
<td>3979.27 (60.11)</td>
<td>10282 (54.02)</td>
<td>3582</td>
</tr>
<tr>
<td>Gundlupet</td>
<td>1394.73 (9.69)</td>
<td>584.741 (8.83)</td>
<td>1669 (8.76)</td>
<td>522</td>
</tr>
<tr>
<td>Kollegal</td>
<td>2960.95 (20.57)</td>
<td>1520.37 (22.96)</td>
<td>5317 (27.93)</td>
<td>1368</td>
</tr>
<tr>
<td>Yalandur</td>
<td>1136.78 (7.89)</td>
<td>534.596 (8.07)</td>
<td>1764 (9.26)</td>
<td>486</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14388.78 (100)</strong></td>
<td><strong>6618.98 (100)</strong></td>
<td><strong>19032 (100)</strong></td>
<td><strong>5958</strong></td>
</tr>
</tbody>
</table>

*Source: District Statistical Glance 2001-02*

Note: Figures in parenthesis show percentages.

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APPENDIX –IV

TABLE-1.3. MULBERRY VARIETIES CULTIVATED IN INDIA BY STATES.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Region</th>
<th>Development</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kavan-2</td>
<td>South India irrigated</td>
<td>CSRTI-Mysore</td>
<td>Selection from natural variables</td>
</tr>
<tr>
<td>S-36</td>
<td>do</td>
<td>do</td>
<td>Develop through treatment of berha</td>
</tr>
<tr>
<td>S-54</td>
<td>do</td>
<td>do</td>
<td>do</td>
</tr>
<tr>
<td>Victory-1</td>
<td>do</td>
<td>do</td>
<td>Hybrid from s30*ber c776</td>
</tr>
<tr>
<td>Do</td>
<td>do</td>
<td>Kssrdi-Thalghatpur</td>
<td>Clonal selection</td>
</tr>
<tr>
<td>S-13</td>
<td>South India rainfed</td>
<td>CSRTI-Mysore</td>
<td>Selection from polycross (mixed)</td>
</tr>
<tr>
<td>S-34</td>
<td>do</td>
<td>do</td>
<td>do</td>
</tr>
<tr>
<td>Mr-2</td>
<td>do</td>
<td>do</td>
<td>Sel from open pollinated hybrids</td>
</tr>
<tr>
<td>S-1</td>
<td>Eastern &amp; NE India irrigated</td>
<td>Csrti Berhampore</td>
<td>Introduction from Burma (mandalya)</td>
</tr>
<tr>
<td>S-799</td>
<td>do</td>
<td>do</td>
<td>Sel from open poll</td>
</tr>
<tr>
<td>S-1635</td>
<td>do</td>
<td>do</td>
<td>Triploid selection</td>
</tr>
<tr>
<td>S-146</td>
<td>N India and hills of J&amp;K irrigated</td>
<td>do</td>
<td>Selection from open pollinated hybrid</td>
</tr>
<tr>
<td>Ir-10</td>
<td>Hills of eastern India</td>
<td>do</td>
<td>Triploid of ber .sel</td>
</tr>
<tr>
<td>Be-259</td>
<td>do</td>
<td>do</td>
<td>Back crossing of hybrid of matigare</td>
</tr>
<tr>
<td>Goshhoerami</td>
<td>Temperate</td>
<td>Csrti Pampore</td>
<td>Introd from Japan</td>
</tr>
<tr>
<td>O hak majra</td>
<td>Sub-temp</td>
<td>Rsrs Jammu</td>
<td>Sel from natual va</td>
</tr>
<tr>
<td>China white</td>
<td>Temp</td>
<td>Csrti pam pore</td>
<td>Clonal selection</td>
</tr>
</tbody>
</table>

*Source: Dr.K.Datta, CSRTI, Mysore (2002).*