1. Exporter should obtain export license from the competent/concerned authority.

2. No consignment shall be exported without a valid permit issued by the competent authority.

3. No consignment will be exported without the issuance of a Quarantine Certificate by the Central Silk Board's authorized Designated Inspection Authority (DIA).

4. The exporter should apply in the prescribed form enclosed to the officer-in-charge of the quarantine center, ten days in advance of the actual date of inspection.

5. Exporter should pay a sum of Rs.20/- (Rupees twenty only) per sample (as specified in the sampling procedure and testing by DIA of CSB) to the officer-in-charge of the quarantine station as inspection fee for issuance of quarantine certificate for each consignment.

6. All silkworm eggs meant for export should be prepared as loose grains of 50 layings only, uniformly weighing 10 to 11 grams in Boxes (layings weight, excludes box weight).

7. ONLY AUTHORIZED HYBRIDS WILL BE PERMITTED FOR EXPORT.

8. The exporter should deliver the entire consignment at the specified quarantine center at his own expense, as per the conditions laid down.

9. The exporter should arrange and present the products for the purpose of inspection/drawing samples, to the authorized DIA, in accordance with the specific sampling schedule.

10. The exporter should extend labour and material supports required for handling the boxes, (opening, re-packing, sealing and consignment) loading and un-loading.
11. After inspection, the exporter should remove the consignment on the same day, from the premises of the inspection office.

12. The quarantine officer shall seal the consignment after inspection. The seal shall bear the markings as inspected and certified.

13. After certification, the exporter shall not in any manner alter the contents of the consignment.

14. The quarantine center shall bear no responsibility to any infestation and infection that may occur, after the consignment has been inspected and duly certified.

15. No suit, prosecution or other legal proceedings shall lie against any person, for anything done in good faith or intended to be done under the quarantine law/procedure.
APPLICATION FOR INSPECTION OF EXPORTABLE SILKWORM EGGs AND ISSUAk OF QUARANTINE CERTIFICATE

To

Officer Incharge
Silkworm Seed Quarantine Station
SSTL, Kodathi, Carmelram Post,
BANGALORE-560 035.

Sir,

The following varieties of silkworm eggs may kindly be inspected and Quarantine Certificate issued:

1. Name and description of silkworm eggs:

2. Nature of Packing:

3. Quantity of eggs by Wt.:

4. Number of packages:

5. Dimension and volume of each package/bag/carton:

6. Total volume of weight of the consignment:

7. Destination, Name of the country and port:

8. Port of Shipment:

9. Date of shipment:

10. Shipment by Land/Air cargo or accompanied baggage:

11. Place of inspection:

12. Date on which consignment will be presented for inspection:

13. Name and address of Exporter:

14. Name and address of Importer:
15. Value Rs.

16. Purpose:

I shall pay to the Government of India any fee prescribed by the government for inspection of this consignment and issue of quarantine certificate. I shall carry out the instructions given by the quarantine officer or any officer duly empowered by him on this behalf in connection with the inspection of the consignment.

I understand and agree to the condition that “No Liability” shall attach to the Central Silk Board, Govt. of India or to any Officer of the Directorate of Silkworm Seed Technology Laboratory in connection with the issue of this certificate.

PLACE: ___________________________ Signature of the Exporter
DATE: ___________________________ with address
TESTING PROCEDURES

Preparation of materials:

1. Crushing of eggs: The sample eggs which have been collected and put into a porcelin/glass mortar separately and 0.5% Potassium Carbonate (K\(_2\)CO\(_3\)) solution is added and ground thoroughly (1:4 ratio of eggs to volume of solution).

2. Settling: After homogenising, the contents are transferred into a plastic/glass beaker (250 ml capacity) and allowed to settle for 2-5 minutes to enable separation of egg shell from solution.

3. Filtering: The separated layers are slowly filtered, avoiding, mixing up of the two layers, through a glass/plastic funnel (10 cm diameter) into a centrifuge tube (15/100 ml capacity). A muslin cloth in four layers is used while filtering the homogenate.

4. Centrifugation/Sedimentation: All the centrifuge tubes are evenly balanced, capped and loaded into the centrifuge followed by centrifugation at 3000 rpm for five minutes.

5. Suspension of sediment: The centrifuge tubes are removed from the centrifuge supernatant is discarded slowly. The sediment is suspended by shaking with a few drops of clean water or by using a cyclomixer or a glass rod which facilitates uniform dissolving.

6. Preparation of smear and Microscopic Examination: From each tube smears are drawn on to the microslide to be examined by two examiners. From each smear, a minimum of 5 microscopic fields are examined, one at the center position and one each at 3 O’clock, 9 O’clock and 12 O’clock positions.

7. Recording of intensity of infection: Depending on the intensity of spores visible per microscopic field, the infection intensity is graded and recorded as indicated below:

<table>
<thead>
<tr>
<th>No. of spores/field</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 3</td>
<td>±</td>
</tr>
<tr>
<td>4 to 10</td>
<td>1 +</td>
</tr>
<tr>
<td>11 to 30</td>
<td>2 +</td>
</tr>
<tr>
<td>31 to 100</td>
<td>3 +</td>
</tr>
<tr>
<td>101 to 300</td>
<td>4 +</td>
</tr>
<tr>
<td>301 and above</td>
<td>∞</td>
</tr>
</tbody>
</table>
In addition to the information provided in the Quarantine procedures for export of silkworm eggs, stringent measures are being imposed at the time of sampling and microscopic examination of silkworm eggs for issuance of quarantine certificate. Hence, it is essential to follow these norms also in order to ascertain the health of the brood before issuing quarantine certificate. The detail information is furnished below:

1. Colour, depression, shape and size of the eggs to be recorded (eggs with abnormality in the above characters need to be selected and individually tested).

2. Individual egg testing: Crush selected (on the basis of abnormality) individual eggs, after suspending them in 0.25 K\textsubscript{2}CO\textsubscript{3} solution for 10 seconds, on clean deflated slide glass by pressing a 12 mm cover glass on them. Examine directly under bright field or phase contrast objective (600X). 5 microscopic fields are examined in each case.

3. 20 eggs pooled together are homogenised in a tissue homogenise with 0.6% K\textsubscript{2}CO\textsubscript{3} solution. The homogenate is filtered through 2-3 layers of clean cloth or a thin layer of absorbent cotton, centrifuged and sediment examined using normal or phase contrast optics (600X). 2 smears are examined from each sample selecting 5 microscopic (center, 12, 3, 6 and 9 clock). Each smear examined by 2 persons.

4. Eggs must be tested at Blue egg stage.

5. About 50 eggs/100 eggs (pooled) are kept for hatching test.

6. Larvae must be reared and tested after third moult.

**DISINFECTION AND CLEANING:**

After quarantine testing of the sample eggs is over the room floor is soumbed with 2% bleaching powder solution. By putting 30 to 40 ml of 1% Potassium Carbonate solution, the mixer cups are run again and then immersed in 5% bleaching powder solution for 10 minutes followed by washing with soap and water. Similarly, all the other materials utilised during centrifugation and filtering are also disinfected in 5% bleaching powder solution for 10 minutes, washed, using soap and water, then dried and stored. The glassware used for testing can also be sterilized in hot water by using clinical sterilizer. The crushed materials, after examination are soaked in bleaching powder solution for 10 to 15 minutes and discarded.
SAMPLING AND TESTING PROCEDURE OF SILKWORM EGGS
AT THE PORT OF ENTRY

Sample collection:

Sample collection of silkworm eggs is done by means of a scoop which will retrieve approximately 0.2 gm by inserting and releasing out of egg case or box. In the event of 5 or lesser than 5 egg boxes, each box is sampled. When it is more than 5 egg boxes sampling is done at random as per the table given below. The hole formed while collecting the sample on the egg box is sealed with the label of RDO office indicating the date.

SAMPLE SIZE

<table>
<thead>
<tr>
<th>No of egg boxes</th>
<th>Boxes to be sampled</th>
<th>No.of units</th>
<th>Qnty of eggs per egg box</th>
<th>Total Qnty to be tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-5</td>
<td>All</td>
<td>1</td>
<td>0.2 gm</td>
<td>1 gm</td>
</tr>
<tr>
<td>6-10</td>
<td>5</td>
<td>1</td>
<td>0.2 gm</td>
<td>1 gm</td>
</tr>
<tr>
<td>11-50</td>
<td>10</td>
<td>2</td>
<td>0.2 gm</td>
<td>2 gm</td>
</tr>
<tr>
<td>51-100</td>
<td>20</td>
<td>4</td>
<td>0.2 gm</td>
<td>4 gm</td>
</tr>
<tr>
<td>100-200</td>
<td>30</td>
<td>6</td>
<td>0.2 gm</td>
<td>6 gm</td>
</tr>
<tr>
<td>201-400</td>
<td>40</td>
<td>8</td>
<td>0.2 gm</td>
<td>8 gm</td>
</tr>
<tr>
<td>&gt;401</td>
<td>50</td>
<td>10</td>
<td>0.2 gm</td>
<td>10 gm</td>
</tr>
</tbody>
</table>

Issual of Quarantine Certificate:

If the sample eggs tested are free from Pebrine disease, the Quarantine Certificate will be issued by the DIA, and the results of test will be marked to Member Secretary, Central Silk Board.
CENTRAL SILK BOARD
[Ministry of Textiles, Government of India]

To

The Officer Incharge, :
Quarantine Organization of :

DESCRIPTION OF THE CONSIGNMENT

Name & Address of the Exporter :

Declared Name & Address of the Consignee :

Number & description of Packages:

Country of Origin :
INDIA

Declared means of conveyance :

Declared port of entry/ and custom station :

Name of the produce & quantity declared :

Commercial & Generic names of the eggs :

This is to certify that the silkworm eggs described above have been inspected and found free from pebrine disease and that they are considered to confirm with the current Sanitary regulations of the Importing Country.

Additional declaration :

Authorized Signatory

PLACE:
DATE :
(Seal of the organisation issuing the Certificate)