

**Work Plan for Export of Fresh Kiwi Fruits
from I.R. Iran to India**

Ministry of Jihad-Agriculture

Government of I.R. Iran

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I. OVERVIEW

1. Objective of the work plan

This work plan provides the guidance and phytosanitary requirements for the export of commercial shipments of fresh kiwi fruits from I.R. Iran to India. The purpose of this work plan is to facilitate commercial export of fresh kiwi fruits from I.R. Iran to India in accordance with the WTO/SPS Agreement, IPPC and relevant ISPMs.

2. Quarantine pests of concern

A list of quarantine pests of concern to India for fresh kiwi fruits from I.R. Iran is specified in the Attachment.

3. Organizations and responsibilities

3.1. Ministry of Jihad-Agriculture of I.R. Iran

Ministry of Jihad-Agriculture, is responsible for the following actions to ensure that the export of fresh kiwi fruits from I.R. Iran to India is conducted appropriately in accordance with the phytosanitary requirements of India. In this regards, Ministry of Jihad-Agriculture should:

- Provide guidance to the Jihad-Agriculture Organization of provinces inspectors for implementing this work plan; register orchards, provide guidance to the growers of pest managements;
- register packinghouses, provide guidance to the operators of packaging works, confirm packinghouse procedures;
- register treatment facilities, provide guidance to the operators of treatment works, confirm treatment procedures;
- conduct export inspection and issue a phytosanitary certificate.
- provide required information to the Ministry of Agriculture & Farmer's Welfare, India and
- ensure that Ministry of Jihad-Agriculture inspectors, involved with the export of fresh kiwi fruits to India, have sufficient technical knowledge for implementing this work plan. Invite Plant Quarantine inspector of Ministry of Agriculture and Farmer's Welfare, to cooperate with the preparation and work procedures for providing support required for conducting Audit/Supervision.
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3.2. Growers of orchard and operators of packinghouse and treatment facility

Growers of orchard and operators of packinghouse and treatment facility should conduct orchard management, treatment, packaging and other relevant words for export of fresh kiwi fruits from I.R. Iran to India in accordance with the instruction and guidance provided in this work plan and by Ministry of Jihad-Agriculture.

3.3. Ministry of Agriculture & Farmer's Welfare (MOA&FW), India

MOA&FW should conduct import inspection for fresh kiwi fruits in accordance with the Indian plant quarantine regulations.

4. Revision of the work plan

Ministry of Jihad-Agriculture or MOA&FW may propose an amendment to this work plan to the other party by official letter in case it considers the amendment is necessary and may revise this work plan if agreed by both parties.

II. WORKS RELATED TO THE EXPORT OF FRESH KIWI FRUITS FROM I.R. IRAN TO INDIA

5. Registration of orchards, packinghouses and treatment facilities by Ministry of Jihad-Agriculture

5.1. Confirmation of registration by Ministry of Jihad-Agriculture

Ministry of Jihad-Agriculture should examine if the following requirements are met for registration of orchards, packinghouses and treatment facilities for export of fresh kiwi fruits from I.R. Iran to India. In case it is confirmed that all the requirements are fulfilled, Ministry of Jihad-Agriculture should register the orchards, packinghouses and treatment facilities. Ministry of Jihad-Agriculture may revoke the registration if it is deemed that the registered orchards, packinghouses or treatment facilities do not meet the requirements.

5.1.1. Requirements for orchard

- Orchards should be commercial Orchards.
- Pest control based on spray calendar should be conducted.
- Orchards management should be implemented with incorporating posture of Good Agricultural Practices (GAPs) on horticultural production.
- The records of pest control and other relevant activities undertaken in the registered orchards should be maintained for at least 2 years.

5.1.2. Requirements for packinghouse

- Packinghouses should be equipped with adequate lighting and sorting device.
- Packinghouses should have well-documented Standard Operating Procedures (SOPs) which describe all processes related to grading, handling and packing.
- Packinghouses should have technical workers trained by Ministry of Jihad-Agriculture, who can recognize pest-damage symptoms on fresh kiwi fruits. The technical workers should be involved in fresh kiwi fruits sorting, and sort out fresh kiwi fruits suspected of being infested with pests as specified in the Attachment.
- When fresh kiwi fruits produced in non-registered orchards are stored in the same packinghouses with fresh kiwi fruits produced in registered orchards, they should be isolated and stored separately.

The records of growers supplying fresh kiwi fruits should be maintained for at least 2 years.

5.1.3. Requirements for treatment facility

5.1.3.1. Fumigation treatment facility

Facilities should be air tight enough to keep a required gas concentration during fumigation.

Gas concentration and fruit temperature in fumigation chamber should be measured at stated times during fumigation.

Facilities should have devices to ensure uniform gas distribution in fumigation chamber and to exhaust gas quickly after fumigation.

Facilities should be equipped with dosing apparatus of methyl bromide.

5.2. Report to MOA&FW

Ministry of Jihad-Agriculture may provide a list of registered export orchards, packinghouses and treatment facilities for export of fresh kiwi fruits to India to MOA&FW upon request.

6. Phytosanitary treatment

The phytosanitary treatment (methyl bromide fumigation) should be conducted in accordance with the phytosanitary requirements of India and Jihad-Agriculture Organization of related province should confirm whether the items below have been completed. The records of phytosanitary treatment should be confirmed by Jihad-Agriculture Organization of related province and kept by operators of treatment facilities.

6.1. Methyl bromide fumigation

(32 g/m³ for 3½ hrs at 21 °C or above)

Gas measuring instrument should be calibrated within an appropriate period.

Fumigation should be conducted under the prescribed dosage and temperature conditions for prescribed time of exposure. Fruit container should be stacked properly in fumigation chamber in order to maintain uniform distribution of dosed gas.

In cases where fruits are stored tentatively before packing or a packinghouse is not built adjoining a treatment facility, proper measures should be undertaken to prevent infestation with quarantine pests after the phytosanitary treatment has been completed.

7. Sorting and packing works

Sorting and packing works in the registered packinghouses should be conducted in accordance with the following requirements for packing:

The fresh kiwi fruits produced in the registered orchards should be sorted. Before the sorting and packing works, the packinghouses should be cleaned. Packing material should be new and clean.

Fresh kiwi fruits should be packed in packing material which is free from soil, sand and contaminating plant materials, e.g., leaves, twigs, plant debris or other potential carriers of quarantine pests.

If the fresh kiwi fruits infested by quarantine pests are found during sorting and packing works, the fresh kiwi fruits should be removed immediately and destroyed.

Packing material containing fresh kiwi fruits should have no hole(s). If it does, the hole(s) or opening should have screen having the diameter of not more than 1.6 millimeters placed on them.

Packing material should have necessary information to facilitate traceability. At least the following information in English should appear on each material:

- Country of origin (e.g. Produce of I.R. Iran)
- Name of Fruits (e.g. Kiwi)
- Name of exporting company
- Production Unit Code (PUC)
- Packinghouse Code (PHC)

If fresh kiwi fruits are exported to India in loose cartons, the following information "EXPORT TO INDIA" or "FOR INDIA" should appear on each carton. If fresh kiwi fruits are exported to India on pallets, it is allowable to have the following information "EXPORT TO INDIA" or "FOR INDIA" appearing on each side.

8. Export certification

8.1. Export inspection

Export inspection should be conducted in the registered packinghouses, treatment facilities or storage facilities. Jihad-Agriculture Organization of related province should sample 2 % of weight in a consignment for export inspection. Jihad-Agriculture Organization of related province should confirm that fresh kiwi fruits for export to India should be free from any quarantine pests specified in the Attachment.

If any live quarantine pests subject to treatment (*Aspidiotus nerii*, *Ceratitidis capitata*, *Ceroplastes rusei*, *lobesia botrana*, *Diaporthe actinidiae*, *Botrytis cinerea*, *Phaeoacremonium aleophilum*, *Phytophthora cryptogea*, *Phytophthora megasperma* and *Pseudomonas viridiflava*) are found as a result of the inspection, MOA&FW should be notified immediately and Plant Protection Organization of I.R. Iran should investigate the cause of such infestation and provide the result of the investigation as well as propose appropriate measures to MOA&FW. In the case where Jihad-Agriculture Organization of related province confirms that the infestation is caused by the particular (responsible) packinghouse issues, the suspension of the export from the responsible packinghouse should continue until MOA&FW confirms that the cause of the detection is identified and appropriate measures are being taken.

8.2 Phytosanitary certification

Jihad-Agriculture Organization of related province should issue a phytosanitary certificate, provided that quarantine pests specified in the Attachment are not found. The phytosanitary certificate should bear the following additional declaration:

"The consignment of fresh kiwi fruits was found free from 11 quarantine pests (*Aspidiotus nerii*, *Ceratitidis capitata*, *Ceroplastes rusei*, *lobesia botrana*, *Diaporthe actinidiae*, *Botrytis cinerea*, *Phaeoacremonium aleophilum*, *Phytophthora cryptogea*, *Phytophthora megasperma* and *Pseudomonas viridiflava*) "

And the phytosanitary certificate should bear the following "disinfection treatment":

methyl bromide fumigation (32 g/m³ for 3½ hrs at 21 °C or above) "

If quarantine pests specified in the Attachment are found, the consignment should be rejected for export to India.

9. Import inspection

MOA&FW should conduct import inspection for fresh kiwi fruits in accordance with the Indian plant quarantine regulations. If any quarantine pests in the attachment are found, the infested consignments should be either re-exported or destroyed at the importer's expense. If any live quarantine pests subject to treatment (*Aspidiotus nerii*, *Ceratitis capitata*, *Ceroplastes rusei*, *lobesia botrana*, *Diaporthe actinidiae*, *Botrytis cinerea*, *Phaeoacremonium aleophilum*, *Phytophthora cryptogea*, *Phytophthora megasperma* and *Pseudomonas viridiflava*) are found as a result of the inspection, MOA&FW should immediately notify Plant Protection Organization of I.R. Iran of the infestation and then Plant Protection Organization of I.R. Iran should investigate the cause of such infestation and report the result of the investigation as well as propose appropriate measures to MOA&FW.

In the case where MOA&FW confirms that the infestation is caused by the particular (responsible) packinghouse issues, the suspension of the export from the responsible packinghouse should continue until the MOA&FW confirms that the cause of the detection is identified and appropriate measures are being taken.

10. Audit by NPPO, India inspectors

10.1 Details of verification in the audit:

- Ministry of Jihad-Agriculture should invite the NPPO, India inspector one month before the commencement of the Kiwi Season. The NPPO, India inspector dispatched to Iran verifies the orchards and pack houses and export inspections are being conducted properly by checking the related data and information held by Ministry of Jihad-Agriculture, and a record related to issuance of Phytosanitary certificate, in addition to interviews of Ministry of Jihad-Agriculture involved in related works or operators of registered orchards and packinghouse. Documents, data and information to be checked are those related to treatments and export inspections conducted after audit of the previous export season through to those conducted during the current export season. (This kind of Audit will be followed for period of two consecutive years. If there are no Non-Compliances registered then NPPO, India will delegate the Audit system to Ministry of Jihad-Agriculture Inspectors.)
- During the Audit NPPO, India inspector with cooperation of Ministry of Jihad-Agriculture, during verifies the registered Orchards and registered packinghouse and their conditions required to be registered.

10.2 Audit Period:

- Verifications shall be conducted for initial two years. If, found satisfactory NPPO, India will hand over the Audit delegation to Ministry of Jihad-Agriculture. If any non-compliance is recorded, bi-laterally will find a solution for export from Iran to India

Attachment

List of Quarantine pests associated with *Actinidia chinensis* and *A. deliciosa* fresh kiwi fruits for consumption from I.R. Iran to India

Sl.No.	Scientific Name of Pest	Pest type
1.	<i>Aspidiotus nerii</i> (Oleander scale)	Insect
2.	<i>Ceratitis capitata</i> (Mediterranean fruit fly)	Insect
3.	<i>Ceroplastes rusci</i> (fig wax scale)	Insect
4.	<i>Lobesia botrana</i> (European grapevine moth)	Insect
5.	<i>Diaporthe actinidiae</i> (stem-end rot of kiwi fruit)	Fungi
6.	<i>Botrytis cinerea</i> (Grey mold)	Fungi
7.	<i>Phaeoacremonium aleophilum</i> (Petri disease)	Fungi
8.	<i>Phytophthora cryptogea</i> (tomato foot rot)	Oomycetes
9.	<i>Phytophthora megasperma</i> (root rot)	Oomycetes
10.	<i>Erwinia rhapontici</i> (rhubarb crown rot)	Bacteria
11.	<i>Pseudomonas viridiflava</i> (bacterial leaf blight of tomato)	Bacteria