

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Quality certification SPS COMPLIANCES of Maize Export

Mandate of department of Plant Protection

DPP is attached department under ministry of National Food Security and research, Government of Pakistan and regulate export/import of agriculture commodities by implementing Plant Quarantine rules 2019, thereunder Plant quarantine Act 1976. can be accessed online www.plantprotecion.gov.pk being its Head Quarter at Karachi. headed by Adviser and Director General and now under National Agri.trade and food safety authority, through an ordinance supported by offices all over Pakistan to facilitate export/import of horticultural products.

Continued

- Export/import of agriculture commodities is regulated in conformity with the recommendations of international Plant protection Convention, 1951 revised in 1997 being its head quarter Rome, Italy. Pakistan is signatory of this convention along with more than 180 countries. IPPC is the main governing body for implementation of SPS measures through adopted standards (ISPM) among member countries.
- IPPC purpose is to prevent introduction and spread of pests of plants and plant products and to promote phytosanitary measures for their control. IPPC provides platform for International cooperation in plant protection to pest control across borders
standard setting body for WTO-SPS related issues

Export related ISPMs

ISPM No 2 – Framework for pest risk analysis

ISPMs Nos. 7 and 12: Export Certification and PC

ISPM No 11 – PRA for quarantine pests, including analysis of environmental risks and LMOs

ISPM No 19 – Guidelines on lists of regulated pests

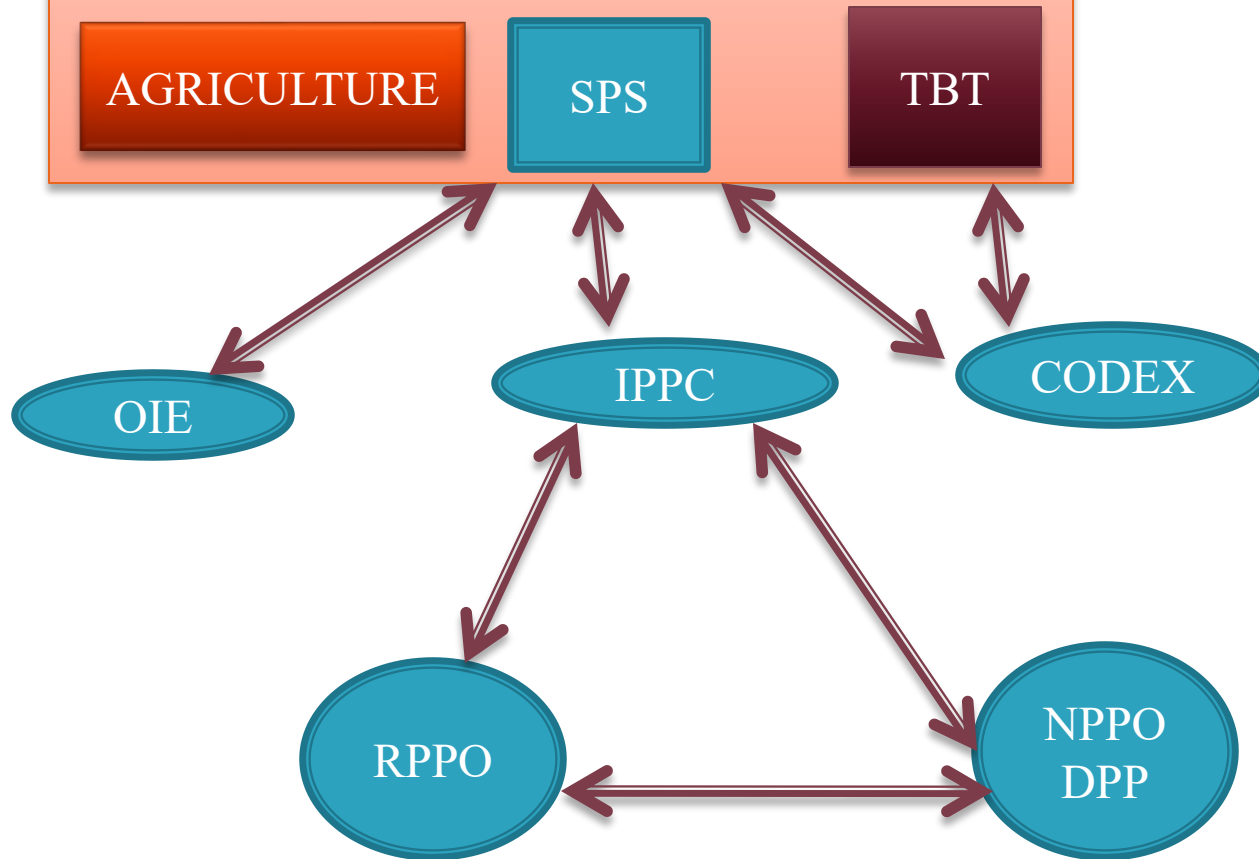
ISPM No 21 – PRA for regulated non-quarantine pests

ISPM No 28 – Phytosanitary treatments for regulated pests

ISPM No 31 – Methodologies for sampling of consignments

ISPM No 32 – Categorization of commodities according to their pest risk . More Than 46 ISPMs

Global System for Agriculture Trade
World Trade Organization



Sanitary and Phyto sanitary (SPS) Standards under the World Trade Organization (WTO)

Agreement deals with regulatory measures applied to protect

- human health (food safety and zoonotic diseases),

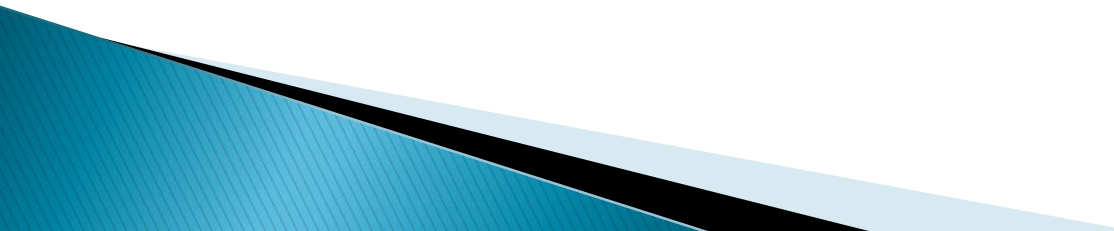
- Animal Health

- Plant Health(plants and plant material including seed etc)

PRESENT EXPORTING DESTINATIONS and future planing

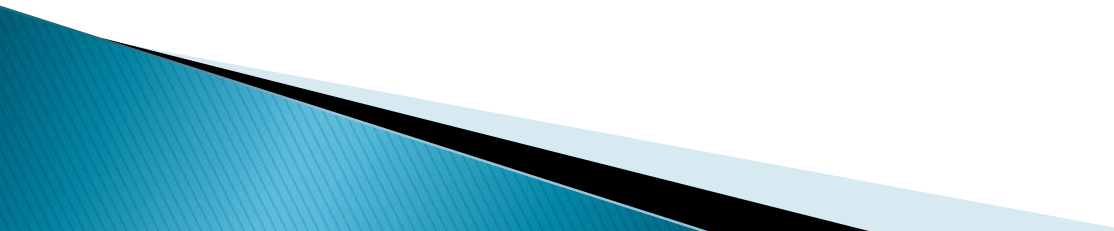
- ▶ Pakistan exporting Maize to Malaysia, Afghanistan, Phillipine Srilanka, veitnam, U.A.E and other gulf states.
- ▶ Further More stringent SPS markets can be China, Korea and Iran.

Issues in export and mitigation Measures

- ▶ Vietnam has been remained our major export destination of maize grain but due presence of Khapra beetle a quarantine insect pest, NPPO Vietnam issued non compliances notification to Pakistan.
 - ▶ If our country want to continue export in future we have to make strategies for zero detection of this pest in our maize consignments, all the stake holders including
 - ▶ Facility owners, exporters, fumigation firms to join hands to export pest free maize consignments to Vietnam, China ,Iran and other countries.
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- ▶ Pakistan is facing quality issues for export of grains to E.U and other countries.
- ▶ Detection of Khapra beetle in our maize consignments, issues of MRL and presence of enhanced level of aflatoxin in our grains. All these issues are manageable by short term and long term mitigation measures both applicable in field and in godowns.

Detection and mitigation measures

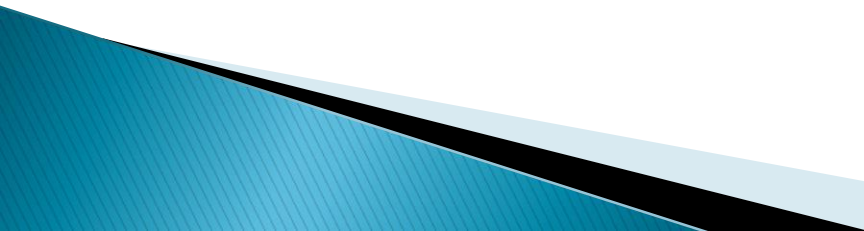
- ▶ The obvious signs of a khapra beetle infestation are the larvae and cast skins.
 - ▶ Detection methods include examination of cracks and crevices and inspecting behind paneling on walls and under timbers, tanks, shelves, etc. Larvae are most likely to be seen just before dusk, since they tend to be more active at that time. There are different methods for control of Khapra beetles.
 - ▶ 1: Chemical sprays 2: fumigants
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- ▶ Chemical sprays with pesticides are used for preventive measures before storage of in godowns. If infestation is detected during storage fumigants like ALP tablets are applied @3tabs/m³ under plastic sheets. Whole the commodity will be covered under plastic sheets by measuring length xwidthxheight and converting into meter cube volumetrically

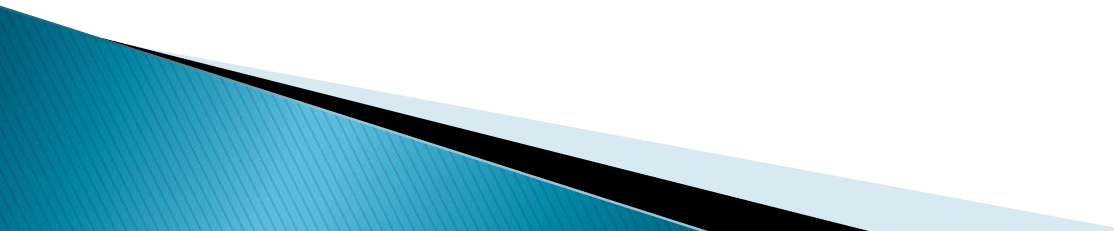
And applying ALP tabs and commodity kept airtight for 120 hours.

- ▶ Airtight ness and maintenance of gaseous equilibrium is very important for successful fumigation. Otherwise some individual may escape and cause commodity to infest again.
- ▶ To check equilibrium of fumigants gas detector an be used periodically and proper concentration expressed in ppm of toxic gase will be maintained entire fumigation process of commodity.

- ▶ Aflatoxin management requires testing of moisture levels of grains, now a days testing kits are available for testing of aflatoxin at mill level. For export purposes different institutions are performing testing regarding aflatoxin and MRL across the country, PCSIR LABS, NIAB and NIBGI and private accredited labs with PNAC. Issues of MRL are manageable by adopting GAP use of environment friendly pesticides and maintaining post harvest interval level.

- ▶ In an eradication program, both fumigants and surface sprays are used in combination with preventive measures, e.g. good sanitation practices and exclusion.
 - ▶ Storage facilities/ware houses for export of maize will be registered with DPP with unique code allotted to registered facility
 - ▶ For export of maize grain sanitation at all export processing will be maintained through out from storage to stuffing of containers.
 - ▶ Maize must be packed in punched/sheeve holes pp bags.
 - ▶ No jute bag will be allowed in ware house of maize storage /packing for export purposes.
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continued

- ▶ Maize should be containerized in washed and clean containers.
 - ▶ Maintenance of record of pest inspections and control will be in documented forms and can be checked by authorized officers periodically.
 - ▶ Only registered facilities allowed to export to China.
 - ▶ Authorized officers of DPP have powers under PQ rules ,2019 for verification of equipments and technical expertise at the time of fumigation of containers.
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PROCEDURE AND REQUIREMENTS FOR REGISTRATION WITH GACC

IF SOME ENTERPRISE INTEND TO REGISTER WITH GACC

- Will submit request to DPP/NPPO/CA in Pakistan on their letter head
- NPPO will assign his team for audit according the edible grain key point of GACC.
- Team, if find compliance of food safety and quarantine or not.

If not, report to enterprise and NPPO

If GACC requirement are met By enterprise

- NPPO will upload documents on GACC official website
- Documents uploaded by NPPO of enterprise will review and evaluate By GACC
- If some correction needs

GACC will ask for it

- If documents are ok the GACC upload company status approve

Enterprises now can see it on Customs Integrated Environment (CIE) and Risk Management System) GACC china

Infra structure Of enterprise

- ▶ processing area must be separate from final product packinng area, HACCP certification, lab test.
- ▶ processing(equipments), packing and storage area must be insect and rodent proof.
- ▶ In loading area avoid cross contamination
- ▶ sanitation and cleaning
- ▶ Pest fumigation system Qualified personel /Graduate Agri
- ▶ building away from any pollutants sights etc
- ▶ concrete floor of processing n storage
- ▶ safety control system for mycotoxin (aflatoxin)

The Chinese National standards and regulations that is required to comply with include but are not Limited To.

- ▶ 1.National Standard for Food Safety Food Additive Use Standard GB 2760-2014
- ▶ 2.National Food Safety Standard Limitation of Mycotoxins in Food GB 2761-2017
- ▶ 3.National Food Safety Standard Limits of Contaminants in Food GB 2762-2017 heavy metals Polluants ,chromium led CADMIUM,MERCURY,ARSENC ,
- ▶ 4.National Food Safety Standard Maximum Residue Limits of Pesticides in Food GB 2763-2021
- ▶ 5.National Food Safety Standard:Hygienic Standard for Drinking Water GB 5749-2006
- ▶ 6.National Standard for Food Safety General Rules for Labeling of Prepackaged Foods GB 7718-2011
- ▶ 7.National Food Safety Standard Food Nutrition Enhancer Use Standard GB 14880-2012
- ▶ 8.National Food Safety Standard General Hygienic Specification for Food Production GB 14881-2013

Edited condition and Key points of imported edible grains

- ▶ The key point form may down load from below mentioned link

<https://sg.docworkspace.com/d/sICu-yYXfAcH6564G>

Quarantine and food safety key points

dg1@plantprotection.gov.pk

ADVISED & DIRECTOR GENERAL

DEPARTMENT OF PLANT PROTECTION MALIR HALL
KARACHI +92-21-99248607, our offices at Lahore and
Multan will also entertain your applications

APPLICATION MAY BE SUBMITTED ON
ABOVE EMAIL AND ADDRESS



Thank you
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