



**KENYA PLANT HEALTH INSPECTORATE SERVICE (KEPHIS)  
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**KHAPRA BEETLE IN THE ADDITIONAL DECLARATION FOR IMPORTATION OF GRAINS TO KENYA**

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Khapra beetle (*Trogoderma granarium*) is rated among the 100 worst species in the world. Its economic importance lies not only in the serious damage it can cause to stored dry commodities, but also the resulting export market restrictions likely to be imposed on Kenya's produce by trading partners. The pest affects mainly stored produce including but not limited to processed rice, wheat, maize, and sorghum.

Its risk of introduction and establishment in countries with warm climates is also rated as high. To supplement local production, Kenyan millers, brewers and other processors import large volumes of grains from countries where Khapra beetle is reported to occur. In order to safeguard Kenya from its introduction, the requirements shall be included in the additional declaration of Plant Import Permits.

**a) Countries where Khapra Beetle occurs**

Khapra beetle is a native pest of Indian subcontinent but prefers hot and dry climates of Asia, Africa, and Eurasia. Kenya has a history of importing grain (mainly rice, millet, and sorghum) from countries where Khapra Beetle is reported to occur.

**Additional declarations**

**1. Additional declaration for Rice grain from countries where Khapra beetle occurs**

- i) Fumigated with Methyl bromide at 32 grams per cubic meter at 21°C and above for 48hrs under normal atmospheric temperature (Details to be stated on the phytosanitary certificate)
- ii) Free from *Cochliobolus miyabeanus*, *Balansia oryzae-sativae*, *Bipolaris victoriae*, *Monographella albescens*, *Sclerophthora macrospora*, *Trichoconiella padwickii*, *Monographella nivalis*, *Sclerophthora macrospora*, *Tilletia barclayana* and *Gibberella fujikuroi*



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- iii) Free from soil and seeds of *Lolium temulentum*, *Datura stramonium*, *Datura metel*, *Datura ferox*, *Datura tatula*, *Avena sterilis* and *Avena fatua*.
- iv) Moisture content should not exceed 14%

**OR**

- i) The grain has been fumigated with methyl bromide or phosphine or any other fumigant, provided the treatment, together with documentary evidence of its effectiveness have been communicated to KEPHIS and agreed upon in advance, to ensure freedom from Khapra beetle (*Trogoderma granarium*) and other storage pests (Details to be stated on the phytosanitary certificate)
- ii) Free from *Cochliobolus miyabeanus*, *Balansia oryzae-sativae*, *Bipolaris victoriae*, *Monographella albescens*, *Sclerophthora macrospora*, *Trichoconiella padwickii*, *Monographella nivalis*, *Sclerophthora macrospora*, *Tilletia barclayana* and *Gibberella fujikuroi*
- iii) Free from soil and seeds of *Lolium temulentum*, *Datura stramonium*, *Datura metel*, *Datura ferox*, *Datura tatula*, *Avena sterilis*, and *Avena fatua*.
- iv) Moisture content should not exceed 14%

**NB:** Details to be stated on Phytosanitary Certificate

**2. Rice grain from countries where Khapra beetle is known not to occur**

- i) The rice grain was inspected according to appropriate procedures and is considered to be free from Quarantine pests
- ii) All pests have been killed before dispatch by fumigation.
- iii) Moisture content should not exceed 14%

Details to be stated on the phytosanitary certificate

**3. Wheat grain from countries where Khapra beetle is reported to occur**

- i) The grains were produced in an area free from *Urocystis agropyri*, *Tilletia indica* (Karnal bunt), *Anguina tritici*, *Sclerophthora macrospora*, and *Xanthomonas tritici*
- ii) Fumigated with Methyl bromide at 32 grams per cubic meter at 21°C and above for 48hrs under normal atmospheric temperature (Details to be stated on the phytosanitary certificate)



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- iii) Free from soil and seeds of *Lolium temulentum*, *Datura stramonium*, *Datura metel*, *Datura ferox*, *Datura tatula*, *Avena sterilis*, and *Avena fatua*.  
(NB/ Details to be stated on Phytosanitary Certificate).

**4. Wheat grain from countries where Khapra beetle is known not to occur**

- (i) The grains were produced in an area free from *Urocystis agropyri*, *Tilletia indica* (Karnal bunt), *Anguina tritici*, *Sclerophthora macrospora* and *Xanthomonas tritici*
- (ii) The grain is fumigated with appropriate fumigant and confirmed free from storage pests
- (iii) Free from soil and seeds of *Lolium temulentum*, *Datura stramonium*, *Datura metel*,
- (iv) Moisture content should not exceed 13.5% (To be indicated on appropriate document/addressed by relevant competent authority)

(NB/ Details to be stated on Phytosanitary Certificate).

**5. Sorghum grain from where Khapra Beetle is reported to occur**

- i) *Claviceps sorghi* (Ergot) and *Curvularia lunata* are known not to occur in the area of production.
- ii) The grain is fumigated with Methyl bromide at 32 grams per cubic meter at 21°C and above for 48hrs under normal atmospheric temperature and confirmed free from Khapra beetle (*Trogoderma granarium*), Saw toothed beetle (*Oryzaephilus surinamensis*) and Indian meal moth (*Plodia interpunctella*) (Details to be stated on the phytosanitary certificate).
- iii) Moisture content should not exceed 14% (To be indicated on appropriate document/addressed by relevant competent authority).

**6. Sorghum grain from countries where Khapra Beetle is known not to occur**

- i) *Claviceps sorghi* (Ergot) and *Curvularia lunata* are known not to occur in the area of production.
- ii) The grain is fumigated with appropriate fumigant and confirmed free from Saw toothed beetle (*Oryzaephilus surinamensis*), Indian meal moth (*Plodia interpunctella*) and other storage pests (Details to be stated on the phytosanitary certificate).



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- iii) Moisture content should not exceed 14% (To be indicated on appropriate document/addressed by relevant competent authority).

**7. Millet grain from countries where Khapra Beetle is reported to occur**

- i) The grain is fumigated with Methyl bromide at 32 grams per cubic meter at 21°C and above for 48hrs under normal atmospheric temperature and confirmed free from Khapra beetle (*Trogoderma granarium*), Saw toothed beetle (*Oryzaephilus surinamensis*) and Indian meal moth (*Plodia interpunctella*) (Details to be stated on the phytosanitary certificate).
- ii) Must be free from mycotoxin contaminants.
- iii) Moisture content should not exceed 14% (To be indicated on appropriate document/addressed by relevant competent authority).

**8. Millet grain from countries where Khapra Beetle is known not to occur**

- i) The grain is fumigated with appropriate fumigant confirmed free from Saw toothed beetle (*Oryzaephilus surinamensis*), Indian meal moth (*Plodia interpunctella*) and other storage pests (Details to be stated on the phytosanitary certificate).
- ii) Must be free from mycotoxin contaminants.
- ii) Moisture content should not exceed 14% (To be indicated on appropriate document/addressed by relevant competent authority).

*For more information, contact:*

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