NOTIFICATION

The following notification is being circulated in accordance with Article 10.6

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| **1.** | **Notifying Member:** UGANDA**If applicable, name of local government involved (Article 3.2 and 7.2):**  |
| **2.** | **Agency responsible:** Uganda National Bureau of StandardsPlot 2-12 ByPass Link, Bweyogerere Industrial and Business ParkP.O. Box 6329Kampala, UgandaTel: +(256) 4 1733 3250/1/2Fax: +(256) 4 1428 6123E-mail: info@unbs.go.ugWebsite: <https://www.unbs.go.ug>**Name and address (including telephone and fax numbers, email and website addresses, if available) of agency or authority designated to handle comments regarding the notification shall be indicated if different from above:**  |
| **3.** | **Notified under Article 2.9.2 [ ], 2.10.1 [ ], 5.6.2 [X], 5.7.1 [ ], 3.2 [ ], 7.2 [ ], other:**  |
| **4.** | **Products covered (HS or CCCN where applicable, otherwise national tariff heading. ICS numbers may be provided in addition, where applicable):** Insects, fit for human consumption (HS code(s): 041010); Other standards related to farm buildings and installations (ICS code(s): 65.040.99) |
| **5.** | **Title, number of pages and language(s) of the notified document:** DUS DARS 2051:2024, Design of facilities and rearing structures for insects for food and feed — Code of practice, First edition; (42 page(s), in English) |
| **6.** | **Description of content:** This Draft Uganda Standards provides guidelines on the structures used for rearing insects for food and feed. |
| **7.** | **Objective and rationale, including the nature of urgent problems where applicable:** Prevention of deceptive practices and consumer protection; Protection of human health or safety; Protection of animal or plant life or health; Harmonization; Cost saving and productivity enhancement |
| **8.** | **Relevant documents:** 1. Costa, José Manuel, Murta, Daniel de Moura and de Magalhães, Tiago Oliveira Novais Leite (2018), *Code of Good Practices: Insect Production, Processing and Use in Animal Feeding*. Lisbon, Portugal: Directorate General for Food and Veterinary (Direção-Geral de Alimentação e Veterinária (DGAV). available at [26 October2023]
2. Dortmans, Bram, Diener, Stefan, Verstappen, Bart and Zurbrügg, Christian (2017), *Black Soldier Fly Biowaste Processing - A Step-by-Step Guide*. available at https://[www.researchgate.net/profile/Stefan-Diener-](http://www.researchgate.net/profile/Stefan-Diener-) 2/publication/319402351\_Black\_Soldier\_Fly\_Biowaste\_Processing\_-\_A\_Step-by- Step\_Guide/links/59a813eda6fdcc2e1bdf798b/Black-Soldier-Fly-Biowaste-Processing-A-Step-by-Step- Guide.pdf [18 January 2024].
3. Grasso, Simonaand Bordiga, Matteo(Eds.) (2023), *Edible InsectsProcessing for Food and Feed: From Startupsto Mass Production*. Boca Ration, FLA, USA; Abingdon, Oxon, UK: CRC Press. available at [3 October 2023].
4. Halloran, A., Hanboonsong, Y., Roos, N. and Bruun, S. (2017), Life Cycle Assessment of Cricket Farming in North-Eastern Thailand. *Journal of Cleaner Production*, 156: 83–94.
5. van Huis, Arnold (2013), *Edible Insects: Future Prospects for Food and Feed Security*. Rome, Italy: Food and Agriculture Organization of the United Nations (FAO). available at https://[www.fao.org/3/i3253e/i3253e.pdf](http://www.fao.org/3/i3253e/i3253e.pdf) [31 January 2019].
6. Huis, Arnold van and Tomberlin, JefferyK. (2017), *Insects as Food and Feed: From Production to Consumption*.
7. Wageningen, The Netherlands: Wageningen Academic Publishers. availableat [8 February 2019].
8. Morales-Ramos, Juan A., Kay, Sasha, Rojas, M. Guadalupe, Shapiro-Ilan, David I. and Tedders, W. Louis (2015), Morphometric Analysis of Instar Variation in Tenebrio Molitor (Coleoptera: Tenebrionidae). *Annals of theEntomological Society of America*, 108(2): 146–159.
9. Morales-Ramos, Juan A., Rojas, M. Guadalupe, Kay, Sasha, Shapiro-Ilan, David I. and Tedders, W. Louis (2012), Impact of Adult Weight, Density, and Age on Reproduction of Tenebrio Molitor (Coleoptera: Tenebrionidae). *Journal of Entomological Science*, 47(3): 208–220.
10. Ortiz, J. A. Cortes, Ruiz, Alejandro Torres, Morales-Ramos, Juan A., Thomas, M., Rojas, M. Guadalupe, Tomberlin, Jeffery K., Yi, L., Han, R., Giroud, L. and Jullien, R. L. (2016), Insect Mass Production Technologies, 153–201, in: Dossey, A. T., Morales-Ramos, J. A., and Rojas, M. G. (Eds.), *Insects as Sustainable Food Ingredients: Production, Processing and Food Applications*. London, United Kingdom; San Diego, CA, USA: Elsevier/AP, Academic Press is an imprint of Elsevier. available at <https://www.elsevier.com/> [22 November 2023].
11. Rehman, Kashif Ur, Hollah, Clemens, Wiesotzki, Karin, Rehman, Rashid Ur, Rehman, Asif Ur, Zhang, Jibin, Zheng, Longyu, Nienaber, Theresa, Heinz, Volker and Aganovic, Kemal (2023), Black Soldier Fly, Hermetia Illucens as a Potential Innovative and Environmentally Friendly Tool for Organic Waste Management: A Mini-Review. *Waste Management & Research: The Journal for a Sustainable Circular Economy*, 41(1): 81–97.
12. Tanga, Chrysanthus Mbi, Fiaboe, Komi K. M., Niassy, Saliou, van Loon, Joop J. A., Ekesi, Sunday and Dicke (2017), *A Field Guide to Commercially Produce Low-Cost, High-Quality Novel Protein Source toSupplement Feeds for Poultry, Pig and Fish Industries and the Valorization of Organic By-Products: A Handbook for Extension Staff and Trainers*. Nairobi, Kenya: International Centre of Insect Physiology and Ecology (icipe). available at <https://www.spectrumsdkn.org/en/home/other-sectors/insects-as-food-and-feed/farming-and-production-1/471-icipe-black-soldier-fly-manual-for-insect-as-feed-production/file> [18 January 2024].
13. Van Itterbeeck, Joost, Rakotomalala Andrianavalona, Irina N., Rajemison, Faneva I., Rakotondrasoa, Johanna F., Ralantoarinaivo, Valisoa R., Hugel, Sylvain and Fisher, Brian L. (2019), Diversity and Use of Edible Grasshoppers, Locusts, Crickets, and Katydids (Orthoptera) in Madagascar. *Foods*, 8(12): 666.
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| **9.** | **Proposed date of adoption:** To be determined**Proposed date of entry into force:** To be determined |
| **10.** | **Final date for comments:** 60 days from notification |
| **11.** | **Texts available from: National enquiry point [X] or address, telephone and fax numbers and email and website addresses, if available, of other body:** Uganda National Bureau of StandardsPlot 2-12 ByPass Link, Bweyogerere Industrial and Business ParkP.O. Box 6329Kampala, UgandaTel: +(256) 4 1733 3250/1/2Fax: +(256) 4 1428 6123E-mail: info@unbs.go.ugWebsite: <https://www.unbs.go.ug><https://members.wto.org/crnattachments/2024/TBT/UGA/24_06298_00_e.pdf> |