



NATIONAL BIOSAFETY AUTHORITY

APPROVAL TO CONDUCT CONTAINED USE ACTIVITY USING GENETICALLY MODIFIED ORGANISM

APPROVAL NUMBER: NBA/GMO/CO9/18/9	DATE OF ISSUE: 9th DECEMBER 2013 VALID UP TO: TRIAL COMPLETION AS PER THE PROJECT WORK PLAN
In accordance with regulation 9 of the Biosafety (Contained Use) Regulations, of the Biosafety Act 2009, I hereby grant the approval to undertake contained use activity of the genetically modified organism herein stated in the research institution mentioned in this approval.	
Name of the Applicant/ Research Institution	Kenya Agricultural Research Institute
Specification of the genetically modified organism	<i>Gypsophila paniculata</i> (Baby's breath) modified for pink colour stability
Quantity approved	2,700 rooted cuttings of Transgenic <i>Gypsophila</i> varieties to be imported from Israel and tested on a 0.49Ha CFT facility at Beauty Line Farm, Naivasha, Nakuru County.
Specification of the genetic modification	The introduced gene is PAP 1 gene (Production of Anthocyanin Pigment 1) from <i>Arapidopsis thaliana</i>. The promoter is CaMV 35S from <i>cauliflower mosaic virus</i>, terminator is 3'tml from <i>Agrobacterium tumefaciens</i> and the selectable marker is neomycin phosphotransferase II gene (nptII)

	from <i>Escherichia coli</i> . The transformation was done through a disarmed <i>Agrobacterium tumefaciens</i> -mediated transformation method.
Risk category	Low.
Purpose of the use:	To evaluate transgenic <i>Gypsophila paniculata</i> varieties for pink colour stability in confined field condition. The project will generate field biosafety data for the PAP 1 gene and evaluate the efficacy and stability of the inserted gene in terms of flower colour stability of transgenic <i>Gypsophila</i> varieties.
<p>This approval is granted subject to the following conditions-</p> <ol style="list-style-type: none"> 1. Applicant to obtain a plant import permit from KEPHIS and since the transgenic <i>Gypsophila</i> are to be imported from Israel, a schedule of importation should be prepared and availed to NBA and KEPHIS for monitoring purposes; 2. All cadres of staff to be involved in the trial need to be trained on handling transgenic plants and overall biosafety matters to ensure they understand biosafety requirements and their role in ensuring the achievement of biosafety; 3. A schedule of activities/detailed work plan to be provided to NBA and KEPHIS before commencement of the trial; 4. Put and implement measures to ensure that no plant material from the confined field trials may enter the human food or animal feed chain. All plant material except those taken out with NBA's Authority must be destroyed on site and records maintained; 5. Provide quarterly and annual progress reports to NBA; 6. Incorporate and collect biosafety data on pollinators of <i>Gypsophila</i> namely; bees and flies; 	

7. Notify the NBA and other relevant regulatory agencies of any changes to the experiment that might affect the risk status of the introduced material or those generated;

8. If the project proceeds to environmental release, appropriate Environmental Impact Assessment (EIA) approval certificate or exemptions must be obtained from National Environmental Management Authority (NEMA) prior to such release.

This approval is not transferrable and is valid from the approval date until completion of the trial as per submitted work plan.

Place: **NAIROBI**

Name: **WILLY K. TONUI, PhD, RBP**

Date: **9th DECEMBER 2013**

Signature: 

**CHIEF EXECUTIVE OFFICER
NATIONAL BIOSAFETY AUTHORITY**

