

## **SWAZILAND ENVIRONMENT AUTHORITY**

## APPROVAL TO INTENTIONALLY INTRODUCE AN LMO INTO THE EVIRONMENT

APPROVAL NUMBER:	ER01SEA2018	DATE OF ISSUE:	25 APRIL 2018	
		VALID UPTO:	30 JUNE 2019	
In accordance with the Biosafety Act, 2012 and its Draft Regulations, Approval is granted to the Swaziland Cotton Board to intentionally introduce genetically modified cotton with the <i>Bacillus thuringeinsis</i> gene to be grown in Swaziland.				
Name of the Applicant		Swaziland Cotton Board		
14		Mancishane Street		
		Crop Promotion U	nit	
		P O Box 230		
		Manzini		
	(3	Tel: +268 2505277	5	
Specification of the genet	ically modified	This modified co	otton contains the	
Organism		insecticidal Cry1Ac gene which imparts		
		resistance agains	t Lepidoptera. The	
			ins the selectable	
		-	isolate transformed	
			JD gene cassette as a	
		reporter gene.		
			erated by using the	
			of transformation	
		system. The tra	ansformed cotton	

	shoots containing the Npt II gene	
	were selected on medium	
	supplemented with kanamycin. A	
	procedure of biolistic method of	
	transformation of cotton is novel and	
	performed using shoot meristem.	
-10	Plants were regenerated and	
	ultimately plantlets were grown in	
	soil and assayed for insect resistance.	
	The Cry1Ac gene in the Indian inbred	
	line behaves as a single dominant	
	Mendelian factor and is stably	
	integrated in the plant genome.	
	BAYEUL C	
Quantity approved	5000 kg	
Specification of the genetic modification	Bt Cotton	
Diele entragen		
Risk category	NA 57	
Purpose of the use	Introduction into the Environment /	
	Commercial Release	
	Commondati Neleuse	

This approval is granted subject to the following conditions-

- 1. The permit is specific to the cotton varieties JKCH 1050 and JKCH 1947;
- 2. The renewal of the permit after a single year will be dependent on compliance and the progress report and will be subjected to a simplified application procedure;
- 3. Progress and compliance will also be reviewed yearly;
- 4. Conventional cotton seed should be made available for farmers that are not interested in GM seed
- 5. Destruction of cotton remains in the fields should be enforced and monitored
- 6. Maintain the recommended isolation distances between GM and Non-GM crops
- 7. Control the GM seed distribution
- 8. Keep local or non-GM seed at the gene bank
- 9. This permit is specific to Insect Resistant (*Bt*) Cotton, not Herbicide Tolerant Cotton

- 10. Ensure refuge cropping
- 11. The refuge should be the non-GM isoline of the GM seed
- 12. Ensure continuous farmer training on Management Practices (Provide Extension Services)
- 13. The Swaziland Cotton Board should only give the GM seed to trained and certified farmers
- 14. The Swaziland Cotton Board should frequently monitor compliance to the permit requirements
- 15. The Swaziland Cotton Board should always be available for inspections by the SEA, and should also expect un-announced inspection visits
- 16. The SEA should be informed if there are any changes to the information that was submitted on the application documents
- 17. The Swaziland Cotton Board should submit a progress report at the end of the season, for the purpose of reviewing by the National Biosafety Advisory Committee before renewal or issuance of a permit for the following season
- 18. The SEA will also provide Inspection/Compliance Reports which will be referred to during the renewal of the permit

This approval is not transferrable and is valid for	or: One Season (2018/2019)
Place: <b>Mbabane</b>	Name: Ishmael G. Ndwandwe
Date: <b>25 April 2018</b>	Signature:
	The Acting Executive Director Swaziland Environment Authority