

### OFFICE MEMORANDUM

Subject: Recommendation of the Standing Committee for Bt cotton hybrids expressing approved events namely Event MON 531 (*cryIAc*); Event MON 15985 (*cryIAc* + *cry2Ab*), GFM (*cryIAb* + *cryAc*) and JK Event 1 (*cryIAc*) eligible for commercial release by the State Agriculture Departments in **North zone**.

The Genetic Engineering Approval Committee (GEAC) established under Rule-4 of the Rule-1989 has adopted Event based approval mechanism (EBAM) in respect of Bt cotton hybrids expressing approved events in its meeting held on 02.04.2008 and subsequently a new procedure under the EBAM was adopted by the GEAC in its 91<sup>st</sup> meeting held on 14.01.2009. Details of the new procedure adopted under the EBAM is available at GEAC website i.e. [http://www.envfor.nic.in/divisions/csurv/geac/geac\\_home.html](http://www.envfor.nic.in/divisions/csurv/geac/geac_home.html). In accordance with the decision taken by GEAC in its meeting held on 14.01.2009, the Ministry of Environment & Forests (MoE&F) had constituted a 'Standing Committee' to review the applications for commercial release of Bt cotton hybrids expressing approved events vide O.M. No. 13/39/2007-CS-II dated 17.04.2009. The Standing Committee in its **fourth meeting held on 07.05.2010** considered applications received from various seed companies for their eligibility for commercialization of Bt cotton hybrids expressing 4 approved events as subjected above.

2. The applications were scrutinized by the Standing Committee as per procedure for commercial release of Bt cotton hybrids vide Revised O.M. No. 13/39/2007-CS-II dated 17.04.2009 issued by MoE&F for the following:

- a) Confirmation of gene/ event through molecular characterization by the licensor that the gene/s which is being used is one of the approved events;
- b) Level of protein expression in green house and field trials;
- c) Morphological characters using DUS descriptors;
- d) Bio-efficacy data generated in laboratory conditions;
- e) Authorization certificate/ No Objection Certificate (NOC) from technology provider in case of sub-licensee.

3. Based on the above procedure, the Standing Committee has recommended the following Bt cotton hybrids for commercial release in the **North Zone (Punjab, Haryana and Rajasthan)** by the State Agriculture Departments subject to terms & conditions laid down by the respective State Department of Agriculture as adopted for conventional (non-Bt) cotton seeds/hybrids or truthfully labeled seeds as per the State Government's procedures.

<b>S.No as given in the recommendation letter</b>	<b>Name of the Company</b>	<b>Name of the Hybrid</b>	<b>Zone</b>
1	Ajeet Seeds Ltd.	ACH-155-2, ACH177-2, ACH133-2 (Cry1Ac & Cry2 Ab-MON 15985)	North Zone
3	Super Seeds Pvt. Ltd.	Super-721BGII, Super-931BGII, Super -965BGII,Super-971BGII (Cry1Ac & Cry2 Ab2-MON 15985)	North Zone
4	Super Seeds Pvt. Ltd.	Super-5BGII, Super-511BGII, Super -544BGII (Cry1Ac & Cry2 Ab2-MON 15985)	North Zone
8	Vibha Agrotech Pvt. Ltd.	VBCH-1532, BGIIVBCH-1533BGII, VBCH-1534BGII,VBCH-1544BGII (Cry1Ac & Cry2 Ab2-MON 15985)	North Zone
9	Safal Seeds & Biotech Ltd.	SBCH-278 Bt,SBCH-290Bt (GFM Cry 1A Gene)	North Zone
10	Ganga Kaveri Seeds	GK-228 BGII,GK-239 BGII (Cry1Ac & Cry2 Ab2-MON 15985)	North Zone
11	Kaveri Seeds Ltd.	KCH-100BGII,KCH-172BGII, KCH-189BGII,KCH-311BGII (Cry1 Ac & Cry2 Ab2-MON 15985)	North Zone
12	Krishidhan Seeds Ltd.	KDCHH-553 BGI (Cry1 Ac-MON531)	North Zone
13	Krishidhan Seeds Ltd.	KDCHH-516 BGII (Cry1 Ac & Cry2 Ab-MON 15985)	North Zone
14	Krishidhan Seeds Ltd.	KDCHH-621 BGII (Cry1 Ac & Cry2 Ab-MON 15985)	North Zone
15	Krishidhan Seeds Ltd.	KDCHH-641 BGII (Cry1 Ac & Cry2 Ab-MON 15985)	North Zone
16	Krishidhan Seeds Ltd.	KDCHH-9810 BGII (Cry1 Ac & Cry2 Ab-MON 15985)	North Zone
21	Tulasi seeds	TULASI-9 BGII, TULASI 118 BGII,TULASI 252BGII,TULASI 135BGII, TULASI 171BGII (Cry1 Ac & Cry2 Ab-MON 15985)	North Zone
22	Seed Works International Pvt. Ltd.	SWCH-4735 BGII, SWCH-4744 BGII, SWCH- 4748 BGII, SWCH-4750 BGII, SWCH-4755 BGII, SWCH-4757 BGII, SWCH-4768 BGII, SWCH-4770 BGII (Cry1 Ac & Cry2 Ab-MON 15985)	North Zone

24	Amar Biotech	ABCH 243 Bt, ABCH 244 Bt, ABCH 245Bt, ABCH 246Bt, ABCH 247Bt, ABCH 248 Bt, ABCH 251Bt, ABCH 252Bt, ABCH 254Bt, ABCH-256 Bt (All are BGII) (Cry1 Ac & Cry2 Ab2-MON 15985)	North Zone
25	Amar Biotech	ABCH 223 Bt, ABCH 224 Bt, ABCH 225Bt, ABCH 226Bt, ABCH 227Bt, ABCH 228 Bt, ABCH 229Bt, ABCH 230Bt, ABCH 231Bt, ABCH-232 Bt, ABCH-235 Bt (Cry1 Ac-MON 531)	North Zone
27	Rasi Seeds Pvt. Ltd	RCH650 BGII (Cry1 Ac & Cry2 Ab2-MON 15985)	North Zone
28	Rasi Seeds Pvt. Ltd	RCH 653 BGII (Cry1 Ac & Cry2 Ab2-MON 15985)	North Zone
29	Rasi Seeds Pvt. Ltd	Shakthi 9 BGII (Cry1 Ac & Cry2 Ab2-MON 15985)	North Zone
33	Global Transgene Ltd.	NCEH-51, NCEH-145 (event GFM Cry 1A)	North Zone
36	Pravardhan Seeds Pvt. Ltd.	PRCH-721Bt, PRCH-722 Bt (Cry1 Ac-MON 531), PRCH-708 Bt2 (Cry1 Ac & Cry2 Ab2-MON 15985)	North Zone
40	Nuziveedu Seeds Pvt. Ltd	NCS 1915 Bt , NCS 1916 Bt (Cry1 Ac-MON 531)	North Zone
41	Nuziveedu Seeds Pvt. Ltd	NCS 9002Bt2 , NCS 9011 Bt2, NCS 9012 Bt2, NCS 9013 Bt2, NCS 9024 Bt2 (Cry1 Ac & Cry2 Ab2-MON 15985)	North Zone
46	Prabhat Agri Biotech Ltd.	PCH-9602 Bt2, PCH-9604 Bt2, PCH-9605 Bt2, PCH-9609 Bt2, PCH-9611 Bt2 (Cry1 Ac & Cry2 Ab2-MON 15985)	North Zone
47	Prabhat Agri Biotech Ltd.	PCH-1414 Bt (Cry1 Ac-MON 531)	North Zone
53	Mahyco	MRC-7301 BGII, MRC-7347 BGII, MRC-7351 BGII (Cry1 Ac & Cry2 Ab-MON 15985)	North Zone
55	Bayer BioiScience Pvt. Ltd.	SP7007B2, SP7114B2 BGII (Cry1 Ac & Cry2 Ab)	North Zone
56	Bayer BioiScience Pvt. Ltd.	SP504B1 BGI (Cry1 Ac-MON 531), SP504B2 BGII (Cry1 Ac & Cry2 Ab-MON 15985)	North Zone
58	Ankur Seeds Pvt Ltd	ANKUR 3224 BGII, ANKUR 3244 BGII, ANKUR 3228 BGII (Cry1 Ac + Cry2 Ab-MON 15985)	North Zone
61	JK Agrigenetics Ltd.	JKCH-109 Bt JK Event 1 ( <i>cry1Ac</i> gene)	North Zone
62	JK Agrigenetics Ltd.	JKCH-104Bt JK Event 1 ( <i>cry1Ac</i> gene)	North Zone

69	Bioseed Research India Pvt Ltd	841-2(BGII), 846-2(BGII), 311-2 (BGII) (Cry1Ac&Cry2Ab-MON 15985)	North Zone
4.4	Yashoda Hybrid Seeds Ltd.	YRCH-18Bt, YRCH-22Bt, YRCH-36Bt, YRCH-40Bt GFM Cry1A (Cry1Ab & Cry1Ac)	North Zone
4.29	Kohinoor Seed Fields India Pvt. Ltd.	KSCH-201 Bt, KSCH-204 Bt (Cry 1 Ac- MON 531)	North Zone
4.30	Kohinoor Seed Fields India Pvt. Ltd	KSCH-207 Bt (BGII) (Cry 1 Ac & Cry 2 Ab- MON 15985)	North Zone
4.34	Xylem Seeds Pvt. Ltd	NSPL 252 BG II, NSPL 531 BG II, NSPL 2223BGII (BG II ,Cry 1 Ac & Cry 2 Ab- MON 15985)	North Zone

4. The CICR, Nagpur will depute a technical person to collect seed samples of recommended hybrids from open market for scientific scrutiny and verification of the claims of the applicants and the applicants should deposit the fee with CICR and get the fee receipt for record. The applicants/agriculture Departments are not required to send samples separately for event testing/confirmation henceforth for the fresh applications. The CICR, Nagpur would do the testing of 10% samples randomly selected from the samples collected. Rs. 10,000/- has been fixed as the fee per hybrid tested which may be deposited to CICR, Nagpur by the seed companies. The company should also provide the event specific primer sequence details to CICR, Nagpur for scientific scrutiny and verification of the claims submitted along with the affidavit/s furnished to the Standing Committee.

Kindly acknowledge the receipt of this letter.

(Rajalakshmi Muralidharan)  
Member-Secretary, Standing Committee &  
Scientist-D, DBT

To

1. The Agriculture Commissioner/  
Secretary (Agriculture),  
Department of Agriculture,  
Punjab State, Chandigarh.
2. The Agriculture Commissioner/  
Secretary (Agriculture),  
Department of Agriculture,  
Haryana State, Chandigarh.
3. The Agriculture Commissioner/  
Secretary (Agriculture),  
Department of Agriculture,  
Jaipur, Rajasthan.

Copy to:

1. The Chairman, GEAC, MoE&F, Paryavaran Bhawan, C.G.O.Complex, Lodi Road, New Delhi-110 003.
2. Member-Secretary, GEAC & Director, CS Division, MoE&F, Paryavaran Bhawan, C.G.O.Complex, Lodi Road, New Delhi-110 003.
3. The Director General, Indian Council of Agricultural Research, Krishi Bhawan, New Delhi - 110 001.
4. Secretary, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi – 110 001.
5. The Chief Secretary, Government of Punjab, Chandigarh.
6. Director of Agriculture, Government of Punjab, Punjab State, Chandigarh.
7. Director of Research, Punjab Agricultural University (PAU), Ludhaina-141004, Punjab.
8. The Chief Secretary, Government of Haryana, Chandigarh.
9. Director of Agriculture, Government of Haryana, Hissar, Haryana.
10. Director of Research, Choudhary Charan Singh Haryana Agricultural University (CCSHAU), Hissar- 125 004, Haryana.
11. The Chief Secretary, Government of Rajasthan, Jaipur.
12. Director of Agriculture, Rajasthan State, Jaipur.
13. Director of Research, Rajasthan Agricultural University (RAU) Campus, Bikaner (Rajasthan) – 334 006.
14. Director of Research, Maharana Pratap University of Agriculture & Technology, Udaipur, Rajasthan-313001.
15. Director, Central Institute for Cotton Research (CICR), Post Box No.2. Shankar Nagar Post, Nagpur- 440010 (Maharashtra)
16. Dr. P. Balasubramanian, Professor, Department of Plant Molecular Biology & Biotechnology, Centre for Plant Molecular Biology, Tamil Nadu Agricultural University, Coimbatore – 641 003.
17. Dr. Dilip Monga, Head, CICR Regional Station, Central Institute of Cotton Research, Sirsa – 125 055, Haryana.
18. Dr. K.R. Kranthi, Director, Central Institute for Cotton Research (CICR), Post Box No. 2, Shankar Nagar P.O., Nagpur – 440 010.
19. Dr. N. Gopalakrishnan, Head, CICR Regional Research Station, Coimbatore, Tamil Nadu.
20. Dr. K.K. Tripathi, Scientist-G & Member Secretary- RCGM, DBT, New Delhi.
21. Guard file.

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