

Minutes of the second meeting held under the Chairmanship of Dr. J.S. Sandhu, DDG (CS), ICAR to consider commercial release of Bt cotton hybrids/ varieties for Central Zone on 1st June, 2017 in CACP Committee Room, F Wing, Shastri Bhawan, New Delhi

Second Meeting of Bt. Cotton proposals, with deregulated gene event (MON531 & MON 15985) by GEAC, for consideration of commercial release for Central Zone was held in CACP Committee Room, F Wing, Shastri Bhawan, New Delhi on 1st June, 2017 under the Chairmanship of Dr. J.S. Sandhu, DDG(CS), ICAR.

The list of participants is annexed.

At the outset, D. S. Mishra, Dy. Commissioner (QC) and Member Secretary welcomed the Chairman and all the members of the Committee and informed the objective of the meeting and the responsibility assigned to the Committee consequent upon the recommendations of the Committee of Secretaries. Following their recommendations the commercial release of Bt. cotton hybrids/varieties for Kharif, 2017 with deregulated gene event has been the mandate of the ICAR-DAC&FW henceforth. He informed that earlier the release of Bt. Cotton hybrids with deregulated gene events (Mon 531 & Mon Event 15985) with *cry1Ac* & *cry2Ab* stacked genes was through Standing committee constituted by GEAC.

Thereafter, Dr. J.S. Sandhu, DDG(CS), ICAR and the Chairman briefly highlighted the responsibility entrusted to the present Committee for the commercial release of Bt. Cotton hybrids / varieties developed by private and public sector both. He specifically requested the Project Coordinator (Cotton) to add any specific points to be considered for finalising the criteria for Bt. cotton release proposals for consideration in the present meeting or the Committee may like to follow the same criteria which was followed in the North Zone while considering the Bt. cotton release proposal.

Dr. Prakash, Project Coordinator (Cotton) informed that the criteria already followed in the North Zone may be adopted for clearance with a minor change that the cotton seed yield of 2000 kg. and 1500 kg. in the irrigated and rainfed condition respectively as the benchmark for considering the Bt. cotton hybrid approval for the Central Zone in both conditions. Besides, he also mentioned that out of 140 proposals of 35 companies the proposals getting through are very less on the basis of the old criteria. However, this criteria may be enhanced to 12% from the existing level of 10% maximum limit in Bollworm damage as on this limit maximum proposals are not cleared.

It was also decided that many companies who have not furnished the vital information like fiber quality and protein data from field trials of accredited lab the same may be deferred subject to furnishing the requisite information within a week time. These companies if provide the information within the prescribed time frame then their proposals may also be considered favourably for recommending in the Central Zone for cultivation.

In addition to above, it was also decided that the proposals having reported as early maturity within 150 days in place of usual majority of 180 days may also be considered favourably if the cotton seed yield is not significantly reduced with the normal maturity cotton hybrids. The Member Secretary explained that for considering the above criteria the companies are supposed to provide the factual information on the maturity period of their hybrids indicating the date of sowing and date of last picking to have clear cut information on maturity which is not available in the present cases. In view of the above, this cannot be



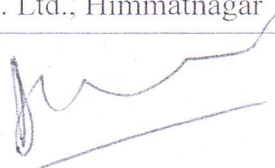
followed in the present meeting for screening of the proposals based on this criteria cannot be made.

After discussing at length and based on uniform criteria as revised and adopted by the committee for screening of the proposals of Bt. Cotton the committee approved proposals as under:

(a) **Details of Bt. Cotton proposals approved for commercial cultivation in Central Zone.**

Table-1

S. No	Company Name	No.	Hybrid	Recommendation
1.	Ankur Seeds Pvt. Ltd., Nagpur	1.	Ankur Gautam BGII	APPROVED FOR MAHARASHTRA UNDER IRRIGATED CONDITION
		2.	Ankur Samir BGII	APPROVED FOR MAHARASHTRA & MADHYA PRADESH UNDER IRRIGATED CONDITION
		3.	Ankur Raghuvir BGII	APPROVED FOR MAHARASHTRA UNDER IRRIGATED CONDITION
2.	Vicky's Agrisciences Pvt. Ltd., Hyderabad	4.	VCS 2001 BGII	APPROVED FOR MAHARASHTRA UNDER IRRIGATED CONDITION
3.	Namdhari Seeds Pvt. Ltd., Bangalore	5.	Namcot 640 BGII	APPROVED FOR GUJARAT UNDER IRRIGATED AND MAHARASHTRA RAINFED CONDITION
4.	Monsanto, Mumbai	6.	Deltapine 9163 BGII	APPROVED FOR MAHARASHTRA & GUJARAT UNDER IRRIGATED CONDITION
5.	Metahelix Life Science Ltd., Bangalore	7.	MC5448 BGII	APPROVED FOR GUJARAT & MAHARASHTRA UNDER IRRIGATED CONDITION
		8.	MC5478 BGII	APPROVED FOR MAHARASHTRA UNDER IRRIGATED CONDITION
		9.	MC5431 BGII	APPROVED FOR MAHARASHTRA UNDER RAINFED CONDITION
		10.	MC5401 BGII	APPROVED FOR MAHARASHTRA UNDER RAINFED CONDITION
6.	Bioseed, Hyderabad	11.	BIO AHH 322 BGII	APPROVED FOR GUJARAT UNDER IRRIGATED AND MAHARASHTRA RAINFED CONDITION
		12.	BIO GHH 029 BGII	APPROVED FOR GUJARAT UNDER IRRIGATED CONDITION
		13.	BIO AHH 383 BGII	APPROVED FOR GUJARAT UNDER IRRIGATED CONDITION
7.	Dhanlaxmi Crop Science Pvt. Ltd., Himmatnagar	14.	25D55BGII	APPROVED FOR MAHARASHTRA UNDER IRRIGATED CONDITION



8.	Ajeet Seeds Pvt. Ltd., Aurangabad	15.	ACH 1155 2 BGII	APPROVED FOR MAHARASHTRA UNDER RAINFED CONDITION
		16.	ACH 1199 2 BGII	APPROVED FOR GUJARAT UNDER IRRIGATED AND MAHARASHTRA UNDER IRRIGATED & RAINFED CONDITIONS
9.	Solar Agrotech, Rajkot	17.	Solar 96 BGII	APPROVED FOR GUJARAT UNDER IRRIGATED AND MAHARASHTRA UNDER RAINFED CONDITION
		18.	25D25BGII	APPROVED FOR GUJARAT UNDER IRRIGATED CONDITION
10.	JK Agri Genetics Ltd., Hyderabad	19.	JKCH 12124 BGII	APPROVED FOR SOUTH RAJASTHAN
11.	Maharashtra State Seeds Corporation Ltd., Akola	20.	PKV Hy 2 BGII	APPROVED FOR MARATHWADA REGION OF MAHARASHTRA UNDER RAINFED CONDITION
		21.	NHH 44 BGII	APPROVED FOR MARATHWADA REGION OF MAHARASHTRA UNDER RAINFED CONDITION
12.	Ankur Seeds Pvt. Ltd., Nagpur	22.	Ankur HB Vasudha BGII	RECOMMENDED FOR IRRIGATED CONDITIONS IN MAHARASHTRA
		23.	Ankur HB Jagdamba	RECOMMENDED FOR IRRIGATED CONDITIONS IN MAHARASHTRA
		24.	Ankur Suwarna BGII	RECOMMENDED FOR THE SOUTH RAJASTHAN
		25.	Ankur Narayan BGII	RECOMMENDED FOR THE SOUTH RAJASTHAN

(b) Details of Bt. Cotton proposals deferred

Table-2

S. No	Company Name		Hybrid	Recommendation
9	Mahyco Pvt. Ltd, Jalna	1-10	MRC 7386 BGII, MRC 7376 BGII, MRC 7392 BGII, MRC 7384 BGII, MRC 7355 BGII, MRC	DEFERRED DUE TO INCOMPLETE INFORMATION WITH RESPECT TO DATA PERTAINING TO BOLL DAMAGE AND BIOEFFICACY

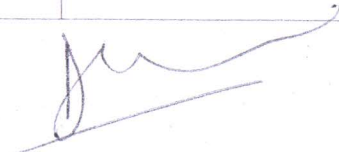
			7378 BGII, MRC 7390 BGII, MRC 7380 BGII, MRC 6918 XXL BGII, MRC 7367 BG BGII	
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With respect to Bt. Cotton hybrids of MAHYCO, it is stated that all proposals are not having the relevant information relating to the boll worm damage and Bio-efficacy data and therefore, the proposals are deferred and may be considered in the next meeting for South Zone subject to furnishing of requisite information by MAHYCO.

(c) **Details of Bt. Cotton proposals (Central Zone) rejected by the Committee due to the remarks as mentioned in the last column.**

Table-3

S. No	Company Name		Hybrid	Remarks
1	Rohini Seeds Pvt. Ltd., Hyderabad	1	CCH 09	NOT RECOMMENDED DUE TO POOR FIBER STRENGTH
		2	CCH 06	NOT RECOMMENDED DUE TO POOR YIELD AS COMPARED TO THE STATE AVERAGE
		3	CCH 03	NOT RECOMMENDED DUE TO POOR FIBER STRENGTH
2	Sungro Seeds Pvt. Ltd., Delhi	4	VICH 315 BGII	THE FIBER QUALITY DATA HAS BEEN GIVEN FROM MAHARASHTRA WHEREAS HYBRID IS CONSIDERED FOR GUJARAT WITHOUT HAVING THE FIBER QUALITY DATA FROM THE SAME STATE
		5	VICH 323 BGII	THE HYBRID IS CONSIDERED FOR MADHYA PRADESH BUT THE FIBER QUALITY DATA ARE GIVEN FROM KARNATAKA
3	Monsanto, Mumbai	6	DPC 7113 BGII	DATA ARE NOT FROM THE SAME STATE FRO WHICH IT IS CONSIDERED
4	Metahelix Life Science Ltd., Bangalore	7	MC5456 BGII	NOT RECOMMENDED DUE TO AVERAGE YIELD LOWER THAN THE STATE AVERAGE



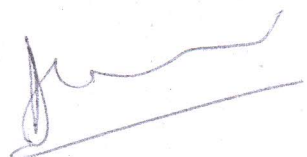
5	Monsanto, Mumbai	8	DPC 7115 BGII	NOT RECOMMENDED DUE TO POOR FIBER QUALITY STRENGTH
6	Safal Bio Seeds. Jalna	9	CH 106 (H x B) BGII	NOT RECOMMENDED DUE TO POOR FIBER QUALITY
	Safal Bio Seeds. Jalna	10	CH 103 BGII	NOT RECOMMENDED DUE TO POOR FIBER QUALITY
7	Kaveri Seeds Company Ltd. Hyderabad	11	KCH 4001 BGII	THE FIBER QUALITY DATA ARE FROM TELANGANA WHEREAS THE HYBRID IS CONSIDERED FOR MADHYA PRADESH
		12	KCH 4011 BGII	THE FIBER QUALITY DATA ARE FROM TELANGANA WHEREAS THE HYBRID IS CONSIDERED FOR MADHYA PRADESH
		13	KCH 1603 BGII	THE FIBER QUALITY DATA ARE FROM MAHARASHTRA WHEREAS THE HYBRID IS CONSIDERED FOR MADHYA PRADESH
		14	KCH 4021 BGII	THE FIBER QUALITY DATA ARE FROM TELANGANA WHEREAS THE HYBRID IS RECOMMENDED FOR MADHYA PRADESH
8	Bioseed , Hyderabad	15	BIO 15-2 BGII	NOT RECOMMENDED DUE TO HIGH BOLLWARM DAMAGE PERCENTAGE AND YIELD ALSO BELOW STATE AVERAGE
		16	BIO GHY 256- 2 BGII	NOT RECOMMENDED DUE TO HIGH BOLLWARM DAMAGE PERCENTAGE AND POOR YIELD BELOW STATE AVERAGE
10	Rasi Seeds (P) Ltd., Ramnagar	17	RCHB853 BGII	NOT RECOMMENDED DUE TO HIGH LOCULE DAMAGE PERCENTAGE
11	Western Agri Seeds Ltd., Ahmedabad	18	Western Export BGII	NOT RECOMMENDED DUE TO POOR FIBER QUALITY STRENGTH
12	Sri Sathya Seeds, Hyderabad	19	66 SS 33 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY
		20	45 SS 33 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY




13.	Seed works International Pvt. Ltd., Medchal	21	SWCH 7421 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY
		22	SWCH 7677 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY / BELOW STATE AVERAGE YIELD
		23	SWCH 7525 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY / BELOW STATE AVERAGE YIELD
14	Metahelix Life Science Ltd., Bangalore	24	MC5476 BGII	NOT SATISFACTORY DUE TO BOLLWORM DAMAGE EXCEEDED LIMIT
15.	Bioseed , Hyderabad	25	BIO AHH 341 BGII	NOT SATISFACTORY DUE TO IRRELAVENT PROTEIN DATA
16	Safal Bio Seeds. Jalna	26	CH 104 BGII	NOT SATISFACTORY DUE TO YIELD BELOW STATE AVERAGE AND POOR QUALITY FIBER STRENGTH
		27	CH 105 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY
		28	SSB 97 (HXB) BGII	REJECTED DUE TO LACK OF LATEST DATA
		29	SSB 91 BGII	REJECTED DUE TO LACK OF LATEST DATA
17.	Rasi Seeds (P) Ltd., Ramnagar	30	RCH812 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY
		31	RCH836 BGII	NOT SATISFACTORY DUE TO YIELD BELOW STATE AVERAGE / BOLLWORM DAMAGE EXCEEDED LIMIT
		32	RCH839 BGII	NOT SATISFACTORY DUE TO BOLLWORM DAMAGE EXCEEDED LIMIT
18.	Maharashtra State Seeds Corporation Ltd., Akola	33	Mahabeej 124 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY
19.	Ajeet Seeds Pvt. Ltd., Aurangabad	34	ACH 104-2 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY
		35	ACH 12 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
20.	JK Agri Genetics Ltd., Hyderabad	36	JKCH 8665 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY



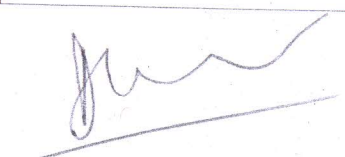
		37	JKCH 8836 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY
		38	JKCH 12124 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY
		39	JKCH 8905 BGII	REJECTED DUE TO LACK OF LATEST DATA
		40	JKCH 8906 BGII	REJECTED DUE TO LACK OF LATEST DATA
21.	Namdhari Seeds Pvt. Ltd., Bangalore	41	Namcot 639 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
22.	Sungro Seeds Pvt. Ltd., Delhi	42	VICH 555 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
		43	VICH 315 BGII	REJECTED DUE TO LACK OF LATEST DATA
23.	Dhanlaxmi Crop Science Pvt. Ltd., Himmatnagar	44	25D58BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
		45	25D54BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
24.	Bayer BioSciencePvt. Ltd., Hyderabad	46	SP7669 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
		47	SP7669 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
		48	SP7669 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
		49	SP7668 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY / BELOW STATE AVERAGE YIELD
25.	Gujarat State Seeds Corporation Ltd., Gandhinagar	50	JBG 2 (BGII)	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
26.	Ankur Seeds Pvt. Ltd., Nagpur	51	Ankur AKKA BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
27	Vikky'sAgrisciencesPvt. Ltd., Hyderabad	52	VCS 2004 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
28.	Kirtiman Agro Genetics Ltd., Aurangabad	53	KYCH 999 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
		54	KYCH 777 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
29.	Narmada Sagar Agro Seeds (P) Ltd., Himmatnagar	55	NYCH 666 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN



		56	NYCH 333 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
30.	Global Transgenes Ltd., Aurangabad	57	NBC 1022 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
		58	NBHB 2205 BGII (H x B)	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
31.	Kohinoor Seed Fields India Pvt. Ltd., New Delhi	59	KSCH 208 BGII	NOT SATISFACTORY DUE TO LOW CRY2AB PROTEIN
		60	KSCH 226 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
		61	KSCH 211 BGII	NOT SATISFACTORY DUE TO LACK OF YIELD SUPERIORITY
32.	Neo Seeds India Pvt. Ltd., Hyderabad	62	Neo 1652 BGII	REJECTED DUE TO LACK OF LATEST DATA
		63	Neo 1633 BGII	REJECTED DUE TO LACK OF LATEST DATA
		64	Neo 1654 BGII	REJECTED DUE TO LACK OF LATEST DATA
		65	Neo 1653 BGII	REJECTED DUE TO LACK OF LATEST DATA
33.	Krisshidhan Seeds Private Ltd., Jalna	66	KDCHH 018 BGII	REJECTED DUE TO LACK OF LATEST DATA
		67	RACHH 353 BGII	REJECTED DUE TO LACK OF LATEST DATA
		68	KDCHH 7101 BGII	REJECTED DUE TO LACK OF LATEST DATA
		69	KDCHH 553 BGII	REJECTED DUE TO LACK OF LATEST DATA
		70	KDCHH 5841 BGII	REJECTED DUE TO LACK OF LATEST DATA
		71	KDCHH 850 BGII	REJECTED DUE TO LACK OF LATEST DATA
		72	KDCHH 621 BGII	REJECTED DUE TO LACK OF LATEST DATA
		73	KDCHH 6741 BGII	REJECTED DUE TO LACK OF LATEST DATA
34.	Kaveri Seeds Company Ltd. Hyderabad	74	KCH 3061 BGII	REJECTED DUE TO LACK OF LATEST DATA



		75	KCH 3051 BGII	REJECTED DUE TO LACK OF LATEST DATA
		76	KCH 3011 BGII	REJECTED DUE TO LACK OF LATEST DATA
		77	KCH 3001 BGII	REJECTED DUE TO LACK OF LATEST DATA
		78	KCH 3081 BGII	REJECTED DUE TO LACK OF LATEST DATA
		79	KCH 3041 BGII	REJECTED DUE TO LACK OF LATEST DATA
		80	KCH 1602 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
		81	KCH 1601 BGII	NOT SATISFACTORY DUE TO LOW CRY1AC PROTEIN
35.	Nuziveedu Seeds, Medchal	82	NCS 2122 Bt2	REJECTED DUE TO LACK OF LATEST DATA
		83	NCS 863 Bt2	REJECTED DUE TO LACK OF LATEST DATA
		84	NCS 1446 Bt2	REJECTED DUE TO LACK OF LATEST DATA
		85	NCS 3456 Bt2	REJECTED DUE TO LACK OF LATEST DATA
		86	NCS 6566 Bt2	REJECTED DUE TO LACK OF LATEST DATA
		87	NCS 3133 Bt2	REJECTED DUE TO LACK OF LATEST DATA
		88	NCS 1789 Bt2	NOT SATISFACTORY DUE TO NON FURNISHING OF PROTEIN, TOXIN QUANTITY, LEAF, SQUARE, BOLL FROM ACCREDIATED LAB
		89	NCS 1024 Bt2	NOT SATISFACTORY DUE TO NON FURNISHING OF PROTEIN, TOXIN QUANTITY, LEAF, SQUARE, BOLL FROM ACCREDIATED LAB
36.	Pravardhan Seeds Pvt. Ltd., Medchal	90	PRCH 752 Bt2	REJECTED DUE TO LACK OF LATEST DATA
37.	PrabhatAgri Biotech Ltd., Hyderabad	91	PCH 5678 Bt2	REJECTED DUE TO LACK OF LATEST DATA
		92	PCH 556 Bt2	REJECTED DUE TO LACK OF LATEST DATA
38.	Tulasi Seeds Pvt. Ltd. Guntur	93	Tulasi 243 BGII	REJECTED DUE TO LACK OF LATEST DATA



		94	Tulasi 234 BGII	REJECTED DUE TO LACK OF LATEST DATA
		95	Tulasi 216 BGII	REJECTED DUE TO LACK OF LATEST DATA
39.	Sri Sathya Seeds, Hyderabad	96	81 SS 33 BGII	REJECTED DUE TO LACK OF LATEST DATA
		97	63 SS 33 BGII	REJECTED DUE TO LACK OF LATEST DATA
		98	13 KA 26 BGII	REJECTED DUE TO LACK OF LATEST DATA
		99	72 SS 66 BGII	REJECTED DUE TO LACK OF LATEST DATA
		100	19 KA 29 BGII	REJECTED DUE TO LACK OF LATEST DATA
		101	741 SS 66 BGII	REJECTED DUE TO LACK OF LATEST DATA
		102	12 KA 24 BGII	REJECTED DUE TO LACK OF LATEST DATA
40.	Amar Bio tech Ltd., Hyderabad	103	ABCH 147 Bt BGII	REJECTED DUE TO LACK OF LATEST DATA
		104	ABCH 148 Bt BGII	REJECTED DUE TO LACK OF LATEST DATA
41	Solar Agrotech, Rajkot	105	Solar 86 BGII	REJECTED DUE TO LACK OF LATEST DATA

Based on the above criteria, the Committee approved only 25 proposals of Bt. cotton BG-II for commercial cultivation in the Central Zone (including southern part of Rajasthan consisting of Udaipur, Banswara and Chittor region), 10 proposals of Mahyco deferred due to incomplete information and the remaining 105 hybrids were rejected as above mentioned tables.

Meeting ended with a vote of thanks Chair.

