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**Proforma for submission of proposal for identification of Bt cotton varieties/hybrids
by the All-India Coordinated Research project on Cotton**

1	Name of the Crop and Species	:	
2	(a) Name of the Bt Hybrid / Variety under which tested in AICRP Trials	:	
	(b) Proposed name of the Hybrid / variety	:	
3	Sponsored by (Institute)	:	
4	(a) Institution or agency responsible for developing Hybrid / variety	:	
	(b) Name of the person who helped in the development of the Hybrid / variety Developers Collaborators	:	
5	(a) Parentage	:	
	(b) Source of material in case of introduction	:	
	(c) DNA profile of variety/hybrid/inbred/A, B, R line of hybrid vis-à-vis check variety/ line	:	
	(d) Breeding method used	:	
	(e) Breeding objective	:	
6	State the varieties / hybrids which most closely resemble the proposed variety in general characters	:	
7	Recommended productions ecology (Rainfed/Irrigated; high/low fertility; season)	:	
8	Specific area of its adaptation (zones and states for which variety is proposed) and recommended productions ecology	:	
9	Description of hybrid/variety	:	
	a) Plant height	:	
	b) Distinguishing morphological characters	:	
	c) Maturity (range in number of days) (from seedling/ transplanting to flowering,	:	

	seed to seed)			
	d) Maturity group (early, medium and late wherever such classification exists)	:		
	e) Reaction to major diseases under field and controlled conditions (reaction to physiological strains/ races/pathotypes/ bio-types to be indicated wherever possible)	:		
	f) Reaction to major pests (under field and controlled condition including store pests)	:		
	g) Agronomic features (e.g. resistance to lodging, shattering, fertilizer responsiveness, suitability to early or late sown conditions, seed rate etc.)	:		
	h) Fibre Quality (in HVI mode)	:		
	Upper Half Mean length (mm)	:		
	Micronaire (µg/inch)	:		
	Bundle Strength (g/tex)	:		
	i) Reaction to stresses	:		
10	Description of the parents of the hybrid	:	A line/Inbred 1	B line/Inbred 2
				R line
11	a) Yield data in coordinated trials (breeding, agronomy, pathology, entomology, quality etc) regional/inter regional district trials year wise (levels of fertilizer application, density of plant population and superiority over local control/standard variety to be indicated (to be attached)	:		
	b) Yield data from national, demonstration/large scale demonstrations (to be attached)	:		
12	a) Agency responsible for maintaining pure seed	:		
	b) Quantity of pure seed in	:		

	stock (kg)		
13	Specific recommendations, if any, for seed production (e.g. staggered sowing, plating ratio of parental lines of hybrids in foundation and certified seed production, probable area of seed production)	:	
14	Vivid presentation (field view, close-up of single plant and seed/economic parts)		
15	Package of practices along with attainable yield levels		
16	DSIR certificate from the sponsoring Agency		
17	NOC from Technology provider		
18	Certificate stating that only GEAC approved transgenic technology has been utilized and no GURT involved		
19	Any other pertinent information	:	

Signature of proposer and contributors

Signature of Head of institution

Table 1: Summary Yield data of Coordinated Varietal Trial

Name of the Proposed Hybrid / Variety:							
Adaptation Zone:							
Production Condition:							
Mean Seed Cotton Yield (kg/ha)							
Year	No. of trials	Proposed hybrid / variety	Zonal Check	Local Checks	Qualify. hybrid / variety1	Qualify. hybrid / variety2	Qualify. hybrid / variety3
Year 1							
Year 2							
Weighted mean							
% Increase/ Decrease over Checks and qualifying Bt Hybrids / Varieties							
Year 1							
Year 2							
Weighted mean							
Frequency in top five groups							

(Append year-wise centre wise data as per above format)

Table 2: Reaction to Major Diseases

**Name of the Proposed Bt
Hybrid / Variety**

Adaptation Zone

Production Condition

Year of Testing	Trial Locations	Proposed hybrid / variety	Zonal Check	Local Checks	Qualify. hybrid / variety1	Qualify. hybrid / variety2	Qualify. hybrid / variety3
A. Disease 1							
Year 1							
Year 2							
B. Disease 2							
Year 1							
Year 2							
C. Disease 3							
Year 1							
Year 2							

Table 3: Reaction to major Insect pests

Name of the Proposed Hybrid / Variety

Adaptation Zone

Production Condition

Year of Testing	Trial Locations	Proposed hybrid / variety	Zonal Check	Local Checks	Qualify. hybrid / variety1	Qualify. hybrid / variety2	Qualify. hybrid / variety3
A. Pest 1							
Year 1							
Year 2							
B. Pest 2							
Year 1							
Year 2							
C. Pest 3							
Year 1							
Year 2							

Table 4: Fibre Quality

Name of the Proposed Hybrid / Variety:						
Adaptation Zone:			Production Condition:			
Item (HVI Mode)	Proposed hybrid / variety	Zonal Check	Local Checks	Qualify. hybrid / variety1	Qualify. hybrid / variety2	Qualify. hybrid / variety3
Upper Half Mean Length (mm)						
Micronaire ($\mu\text{g}/\text{inch}$)						
Bundle Strength (g/tex)						

(Append year-wise centre wise data as per above format)

Table 5: Data on Other Important Characters

Name of the Proposed Hybrid / Variety:							
Adaptation Zone:			Production Condition:				
Year	No .of trials	Proposed hybrid / variety	Zonal Check	Local Checks	Qualify. hybrid / variety1	Qualify. hybrid / variety2	Qualify. hybrid / variety3
Mean Lint Yield (kg/ha)							
Year 1							
Year 2							
Mean							
Mean Ginning Outturn (%)							
Year 1							
Year 2							
Mean							
Mean Boll weight (g)							
Year 1							
Year 2							
Mean							

(Append year-wise centre wise data as per above format)

DUS Characteristics of Bt Hybrid / Variety

Characteristics		
Hypocotyl: Pigmentation		
Leaf: Colour		
Leaf: Hairiness		
Leaf: Appearance		
Leaf: Gossypol glands		
Leaf: Nectaries		
Leaf: Petiole pigmentation		
Leaf: Shape		
Plant: Stem hairiness		
Plant: Stem pigmentation		
Plant: Height		
Plant: Growth habit		
Bract type		
Time of flowering (50% of the plants with at least one opened flower)		
Flower: Petal colour		
Flower: Petal spot		
Flower: Stigma		
Flower: Anther filament colouration		
Flower: Pollen colour		
Flower: Male sterility (only for A and B lines)		
Boll: Bearing habit		
Boll: Colour		
Boll: Shape (longitudinal section)		
Boll: Surface		
Boll: Prominence of tip		
Boll opening		
Boll: Weight of seed cotton/boll (g)		
Seed: Fuzz		
Seed: Fuzz colour		
Seed: Index (100 seed weight in gram)		
Ginning %		
Fibre: Colour		
Fibre: Length (2.5% span length) (mm)		
Fibre: Strength (g/tex)		
Fibre: Fineness (Micronaire value)		

Package of Practices for Bt Hybrid / Variety

a)	Suitability of variety for the area:	
b)	Selection of field and preparation:	
c)	Seed treatment:	
d)	Sowing time:	
e)	Seed rate: Sowing method: Row to row distance: Plant to plant distance:	
f)	Fertilizer doses:	
g)	Weed control:	
h)	Disease & Pest control:	
i)	Irrigation:	
j)	Harvesting:	
k)	Quality characteristics: Upper Half Mean Length (mm) Micronaire ($\mu\text{g}/\text{inch}$) Bundle strength (g/tex)	