

### भारत सरकार GOVERNMENT OF INDIA

# भारतीय पौधा किस्म जरनल PLANT VARIETY JOURNAL OF INDIA

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पौधा किस्म और कृषक अधिकार संरक्षण प्राधिकरण एनएएससी काम्प्लैक्स, डीपीएस मार्ग, निकट टोडापुर गांव, नई दिल्ली—110012

PROTECTION OF PLANT VARIETIES & FARMERS' RIGHTS AUTHORITY
NASC COMPLEX, DPS MARG, Opp. Todapur Village, New Delhi-110012



## GOVERNMENT OF INDIA

भारतीय पौधा किस्म जरनल, खण्ड १२, अंक १२ जून ०६, २०१९/ज्येष्ठ-शुक्ल-०४, शक् १९४१

Plant Variety Journal of India, Vol. 12, No. 12 June 06, 2019/Jyeshth-Shukla-04, Saka 1941



पौधा किस्म और कृषक अधिकार संरक्षण प्राधिकरण एनएएससी परिसर, डीपीएस मार्ग, निकट टोडापुर गांव, नई दिल्ली-110012

PROTECTION OF PLANT VARIETIES & FARMERS' RIGHTS AUTHORITY NASC Complex, DPS Marg, Opp. Todapur Village, New Delhi – 110 012.

'भारतीय पौधा किस्म जरनल' पौधा किस्म और कृषक अधिकार संरक्षण प्राधिकरण का आधिकारिक जरनल है। पीपीवी और एफआर अधिनियम, 2001 तथा पीपीवी और एफआर नियमावली 2003 के नियम 2 (जी) के अंतर्गत अध्यक्ष, पीपीवी और एफआरए, एनएएससी परिसर(द्वितीय तल), डीपीएस मार्ग, निकट टोडापुर गांव, नई दिल्ली-110012 की ओर से प्राधिकरण के रजिस्ट्रार दवारा प्रकाशित किया जा रहा है।

Plant Variety Journal of India is the Official Journal of the Protection of Plant Varieties and Farmers' Rights Authority (PPV & FRA) published by the Registrar on behalf of the Chairperson, PPV & FRA, S-2 A Block, NASC Complex, DPS Marg, Opp. Todapur Village, New Delhi-110012 under the PPV&FR Act, 2001 and Rule 2 (g) of the PPV&FR Rules, 2003.

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	<b>Public Notice:</b> Advertisement is given under sub-section (2) and (3) of Section 21 of the Protection of Plant Varieties and Farmers' Rights Act, 2001 and Rules 30 and 31 of PPV&FR Rules, 2003.	

# 6. मामले से संबंधित व्यक्तियों से आपत्तियां, यदि कोई हों तो, आमंत्रित करने के लिए 42 कृषक किस्मों के पासपोर्ट आंकड़े यहां प्रकाशित हैं।

Passport Data of 42 varieties published for calling objection(s), if any, from persons in the matter.

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	Phule Madhur (RSSGV 46)	REG/2016/1757	Sorghum	Extant	
3.	यूएएस 334	आरइजी/2018/702	चपाती गेह्ं	विद्यमान	18
	UAS 334	REG/2018/702	Bread Wheat	Extant	
4.	यूएएस 375	आरइजी/2018/701	चपती गेहूं	विद्यमान	20
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			Wheat		
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	DWRB 137 (Central Barley				
	DWRB 137)				
7.	भीमा सफ़ेद	आरइजी/2018/695	प्याज़	विद्यमान	25
	Bhima Safed	REG/2018/695	Onion	Extant	
8.	एसएमएल 668	आरइजी/2016/801	मूंग	विद्यमान	27
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9.	बीआरजी 5	आरइजी/2017/1451	अरहर	विद्यमान	29
	BRG 5	REG/2017/1451	Pigeon Pea	Extant	
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	KHP 9	REG/2018/628	Rice	Extant	
12.	डीबीडब्ल्यू 168	आरइजी/2018/704	गेहूं	नई	34
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13.	भीमा हल्का लाल	आरइजी/2017/1796	प्याज़	नई	36
	(डीओजीआर571-एलआर)	REG/2017/1796	Onion	New	
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	571-LR)				
14.	भीमा गहरा लाल	आरइजी/2014/985	प्याज़	विद्यमान	38
	(एनआरसीआरओ-3/आरजीओ-	REG/2014/985	Onion	Extant	
	53)				
	Bhima Dark Red (NRCRO-				
	3/RGO-53)				
15.	सीएसवी 32 एफ	आरइजी/2015/1429	ज्वार	नई	40
	CSV 32F	REG/2015/1429	Sorghum	New	
16.	एकेएसवी 181 (पीडीकेवी	आरइजी/2018/523	ज्वार	नई	42
	कल्याणी)	REG/2018/523	Sorghum	New	
	AKSV 181 (PDKV Kalyani)				
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	Palamuru Jonna (SPV-2122)	REG/2016/286	Sorghum	New	
18.	डीबीडब्ल्यू 173	आरइजी/2018/705	गेहूं	विद्यमान	45
	DBW 173	REG/2018/705	Wheat	Extant	
19.	भीमा शुभुरा (एनआरसीडब्ल्यू	आरइजी/2014/1909	प्याज़	विद्यमान	47
	ओ-4/डब्ल्यू-009)	REG/2014/1909	Onion	Extant	
	Bhima Shubhra (NRCWO-				
	4/W-009)				
20.	डीएचआरएस 1	आरइजी/2016/501	रागी	विद्यमान	49
	DHRS 1	REG/2016/501	Finger Millet	Extant	
21.	एनसीएफडी-60	आरइजी/2010/464	फूलगोभी	नई	51
	NCFD-60	REG/2010/464	Cauliflower	New	
22.	बीए-1559	आरइजी/2010/490	टमाटर	नई	53

	BA-1559	REG/2010/490	Tomato	New	
23.	बी 2037	आरइजी/2007/18	बाजरा	विद्यमान	56
	B 2037	REG/2007/18	Pearl Millet	Extant	
24.	एस-इपी-001	आरइजी/2010/429	बैंगन	विद्यमान	58
	S-EP-001	REG/2010/429	Brinjal	Extant	
25.	एनबीजे-18	आरइजी/2012/86	बैंगन	विद्यमान	59
	NBJ-18	REG/2012/86	Brinjal	Extant	
26.	सी 5715	आरइजी/2008/246	चतुर्गुणित	नई	61
	C 5715	REG/2008/246	कपास	New	
			Tetraploid		
			Cotton		
27.	सी 5714	आरइजी/2008/245	चतुर्गुणित	नई	63
	C 5714	REG/2008/245	कपास	New	
			Tetraploid		
	2	0	Cotton	C	
28.	सी 5538	आरइजी/2008/265	चतुर्गुणित	नई	64
	C 5538	REG/2008/265	कपास	New	
			Tetraploid		
-00	47 (-9	3	Cotton		O.F.
29.	एनसी-47 (जीएमएस)	आरइजी/2013/88 REG/2013/88	चतुर्गुणित	इडीवी EDV	65
	NC-47 (GMS)	KEG/2015/88	कपास	EDV	
			Tetraploid Cotton		
30.	बन्नी बीटी (एनसीएस 145	आरइजी/2008/479	चतुर्गुणित	इडीवी	70
	बीटी)	REG/2008/479	कपास	EDV	
	Bunny Bt (NCS 145 Bt)		Tetraploid		
	, , , , , , , , , , , , , , , , , , ,		Cotton		
31.	एनसी 1207 बीजी-॥	आरइजी/2013/447	चतुर्गुणित	इडीवी	74
	NC-1207 BG-II	REG/2013/447	कपास -	EDV	
			Tetraploid		
			Cotton		
32.	एनसीएस-913 बीटी	आरइजी/2008/489	चतुर्गुणित	इडीवी	77
	NCS-913 Bt	REG/2008/489	कपास	EDV	
			Tetraploid		
		_	Cotton	_	
33.	मल्लिका बीटी (एनसीएस 207	आरइजी/2008/487	चतुर्गुणित	इडीवी	81
	बीटी)	REG/2008/487	कपास	EDV	
	Mallika Bt (NCS 207 Bt)		Tetraploid		
	2 400 22	. 0.000000	Cotton	0.0	
34.	एनसी 126 बीटी	आरइजी/2009/256	चतुर्गुणित	इडीवी	85
	NC-126 Bt	REG/2009/256	कपास	EDV	
			Tetraploid		

			Cotton		
35.	एनसी 113 बीटी	आरइजी/2009/250	चतुर्गुणित	इडीवी	89
	NC-113 Bt	REG/2009/250	कपास	EDV	
			Tetraploid		
			Cotton		
36.	एनसी 2153 बीजी II	आरइजी/2013/455	चतुर्गुणित	इडीवी	93
	NC-2153 BG-II	REG/2013/455	कपास	EDV	
			Tetraploid		
		_	Cotton		
37.	जेके इश्वर (जेकेसीएच 634)	आरइजी/2008/327	चतुर्गुणित	इडीवी	97
	JK ISHWAR (JKCH 634) Bt	REG/2008/327	कपास	EDV	
			Tetraploid		
			Cotton		
38.	जेकेसीएच 226 बीटी	आरइजी/2008/332	चतुर्गुणित	इडीवी	99
	JKCH 226 Bt	REG/2008/332	कपास	EDV	
			Tetraploid		
	() () ()	- 0/2222/222	Cotton	0.0	101
39.	जेके वरुण (जेकेसीएच 555)	,	चतुर्गुणित	इडीवी	101
	बीटी	REG/2008/329	कपास	EDV	
	JK VARUN (JKCH 555) Bt		Tetraploid		
40		2	Cotton		100
40.	मल्लिका बीजी II (एनसीएस	आरइजी/2008/486	चतुर्गुणित	इडीवी	103
	207 बीजी II)	REG/2008/486	कपास	EDV	
	Mallika BG II (NCS 207 BG		Tetraploid		
11	II)	2012 h/2012/126	Cotton	<del></del>	107
41.	एनसी 811 (जीएमएस)	आरइजी/2013/126 REG/2013/126	चतुर्गुणित	नई Now	107
	NC-811 (GMS)	KEU/2013/120	कपास	New	
			Tetraploid Cotton		
42.	एनसी 1108 बीटी	आरइजी/2009/253	चतुर्गुणित	इडीवी	111
42.	NC-1108 Bt	REG/2009/253		EDV	111
	11C-1100 Dt	KEO/2009/233	कपास		
			Tetraploid Cotton		
			Conon		

## सार्वजनिक स्चना

पीपीवी एवं एफआर प्राधिकरण ने 13 नवम्बर, 2018 को सम्पन्न अपनी 30वीं बैठक में पीपीवी एवं एफआर नियम, 2003 के नियम 29 (9) के अंतर्गत विभिन्न पीवीजे में प्रकाशित निम्नलिखित फसल प्रजातियों के डीयूएस परीक्षण दिशानिर्देशों का अनुमोदन किया।

क्र.सं.	फसल प्रजाति का नाम	पौधा किस्म पत्रिका में प्रकाशित
1.	मोरिंगा, <b>मोरिंगा ओलीफेरा</b>	मई, 2018

मोरिंगा डीयूएस परीक्षण दिशा निर्देशों (पौधा किस्म पत्रिका खण्ड 12, अंक 5 में प्रकाशित) में पृष्ठ सं 33 में भाग 2 के पैरा 1 के अंतिम पंक्ति में लिखे गए शब्द "न्यूमतम के रूप में आवेदक को मोरिंगा के 20 पौधों को जमा करना होगा" के स्थान पर "न्यूमतम के रूप में आवेदक को मोरिंगा के 30 पौधों को जमा करना होगा" पढ़ा जाए।

हस्ताक्षरित (आर. सी. अग्रवाल) महापंजीकार

#### **PUBLIC NOTICE**

The PPV&FR Authority in its 30<sup>th</sup> meeting held on 13<sup>th</sup> November, 2018, has approved under Rule 29(9) of PPV&FR Rules, 2003, the DUS Test Guidelines for following Crop Species published in various PVJs namely: -

Sl. No.	Name of Crop Species	Published in PVJ
1.	Moringa, Moringa oleifers	May, 2018

With the following corrigendum in the Moringa DUS test guidelines (published in PVJ Vol.12 No.5) to the effect that in last line of para 1 of part II at page 33 for the words "As a minimum the applicant should submit 20 plants of moringa" the words "As a minimum the applicant should submit 30 plants of moringa" shall be substituted.

Sd/-Dr. R.C. Agrawal Registrar-General

## सार्वजनिक सूचना

पौधा किस्म और कृषक अधिकार संरक्षण नियम 22 (2) के अंतर्गत पौधा किस्म और कृषक अधिकार संरक्षण प्राधिकरण ने 13 नवम्बर, 2018 को सम्पन्न अपनी 30वीं बैठक में निम्नलिखित पांच फसल प्रजातियों की विद्यमान किस्मों के पंजीकरण हेतु समय सीमा का निर्धारण एवं निर्दिष्ट निम्नलिखित रूप से किया है।

क्र.सं.	फसल प्रजाति	पौधा किस्म	विद्यमान अधिसूचित किस्म	कृषक किस्मों के
	का नाम	पत्रिका में	और विद्यमान किस्में जिनका	पंजीकरण के लिए समय-
		प्रकाशित	सामान्य ज्ञान है, उनके	सीमा।
			पंजीकरण के लिए समय-सीमा।	
1	मोरिंगा, मोरिंगा	पौधा किस्म	भारतीय पौधा किस्म जर्नल में	भारतीय पौधा किस्म जर्नल
	ओलीफेरा	पत्रिका खण्ड	प्राधिकरण के अनुमोदन प्रकाशित	में प्राधिकरण के अनुमोदन
		12, अंक 5	होने की तिथि से 6 वर्ष	प्रकाशित होने की तिथि से
				10 वर्ष

हस्ताक्षरित (आर. सी. अग्रवाल) महापंजीकार

#### **PUBLIC NOTICE**

Under Rule 22(2) of PPV&FR Rules, 2003, the PPV&FR Authority in its 30<sup>th</sup> meeting held on 13<sup>th</sup> November, 2018, has determined and fixed the time limit for registration of extant varieties of the following five crop species as follows: -

Sl. no.	Name of Crop Species	Published in PVJ	0	registration of Farmers
			Notified Variety and Extant Variety about which there is Common	Variety
			Knowledge	
1	Moringa (Moringa oleifers)	PVJ Vol.12 No.5	publication of approval of Authority in Plant	10 years from the date of publication of approval of Authority in Plant Variety Journal of India.

Sd/-Dr. R.C. Agrawal Registrar-General

## सार्वजनिक सूचना

पीपीवी एवं एफआर नियम, 2003 के नियम 29 (1) ए के अनुसार पीपीवी एवं एफआर प्राधिकरण ने 13 नवम्बर, 2018 को सम्पन्न अपनी 30वीं बैठक में निम्नलिखित फसल प्रजातियों की डीयूएस परीक्षण शुल्क का अनुमोदन किया है।

क्र. सं.	फसल प्रजाति का नाम	पौधा किस्म पत्रिका में प्रकाशित	डीयूएस टेस्ट फीस	ऑन-साइट डीयूएस टेस्ट फीस
1	मोरिंगा, मोरिंगा ओलीफेरा	पौधा किस्म पत्रिका	₹ 20,000	₹ 30,000
		खण्ड 12, अंक 5		

हस्ताक्षरित
(आर. सी. अग्रवाल)
महापंजीकार

#### **PUBLIC NOTICE**

In accordance with Rule 29(1)(a) of PPV&FR Rules, 2003, the PPV&FR Authority in its 30<sup>th</sup> meeting held on 13<sup>th</sup> November, 2018 has approved the DUS test fees of the following crop species which are here under: -

Sl. No.	Name of Crop Species	Published in PVJ	DUS test fees	On-site DUS test fees
1.	Moringa (Moringa oleifers)	PVJ Vol.12 No.5	Rs. 20,000	Rs. 30,000

Sd/-Dr. R.C. Agrawal Registrar-General

## सार्वजनिक स्चना

(पीपीवी और एफआर अधिनियम, 2001 की धारा 19 के तहत पीपीवी और एफआर नियम, 2003 के नियम 29 (Characteristic 8) के साथ पढ़ें)

विषय : पीपीवी और एफआर प्राधिकरण की 30वीं बैठक में तारांकन चिन्ह (\*) की चूक से डीयूएस परीक्षण दिशा-निर्देशों में संशोधन का निर्णय - सभी फसल प्रजातियों के डीयूएस परीक्षण दिशा-निर्देशों में सभी लक्षण आवश्यक लक्षण हैं।

पीपीवी और एफआर प्राधिकरण ने 13 नवंबर, 2018 को सम्पन्न अपनी 30वीं बैठक में निम्नलिखित विषय पर निर्णय लिया है :

"पीपीवी और एफआर अधिनियम, 2001 की धारा 15 (3) (बी) में यह प्रावधान है कि किसी भी किस्म में अन्य किस्मों जिनकी मौजूदगी सामान्य ज्ञान का विषय हो, से अलग कम से कम एक आवश्यक गुण में विशिष्टता होनी चाहिए। तदानुसार पंजीकरण हेतु योग्यता प्राप्त करने के लिए किस्म में कम से कम एक आवश्यक गुण में विशिष्टिता होनी चाहिए। संबंधित फसल प्रज्ञातियों के डीयूएस परीक्षण दिशा-निर्देशों में आवश्यक गुणों को एस्ट्रिक (\*) के माध्यम से उल्लेख किया गया है। चूंकि डीयूएस परीक्षण दिशा-निर्देशों में उल्लेख किए गए सभी गुण पैतृक हैं और वे मुख्य लक्षणों, निष्पादन तथा पौधा किस्म के महत्व में योगदान देते हैं और आवश्यक गुणों की परिभाषा को परिपूर्ण करते हैं। तदानुसार, डीयूएस परीक्षण दिशा-निर्देशों में उल्लेखित गुणों को आवश्यक गुणों के रूप में विचार किया जाना आवश्यक है।"

अतः आगे से सभी फसल प्रजातियों के लिए अधिसूचित डीयूएस परीक्षण दिशा-निर्देशों में उल्लेखित एस्ट्रिक (\*) चिहन को छोड़ दिया जाए और तदानुसार सभी फसल प्रजातियों के डीयूएस परीक्षण दिशा-निर्देशों में उल्लेखित सभी गुणों को पीपीवी और एफआर अधिनियम, 2001 की धारा 2 (एच) के अनुसार आवश्यक गुण माना जाए।

ह/-(आर. सी. अग्रवाल) महापंजीकार

#### **PUBLIC NOTICE**

(under Section 19 of PPV&FR Act, 2001 read with Rule 29(Characteristic 8) of PPV&FR Rules, 2003)

Sub: Decision in 30<sup>th</sup> Meeting of PPV&FR Authority to Revise DUS test guidelines by omission of asterisk (\*)-All characters in DUS test guidelines of all crop species are essential characters-

The PPV&FR Authority in its  $30^{th}$  Meeting held on  $13^{th}$  November, 2018 has decided as follows: -

"Section 15(3)(b) of PPV&FR Act, 2001 provides that a variety must be distinct by at least one essential character from any other variety whose existence is a matter of common knowledge in any country at the time of filing of application. Accordingly, to become eligible for registration the thumb rule is that a variety must be distinct by at least one essential character. The essential characters have been specified in the DUS test guidelines of respective crop species by way of an asterisk namely (\*). Since all, characters specified in DUS test guidelines are heritable and contribute to the principal features, performance and value of the plant variety and satisfy the definition of essential characteristics. Accordingly, all the characters in the DUS test guidelines must be considered as essential characters."

Henceforth, the asterisk (\*) mentioned in the DUS test guidelines notified for all crop species shall be omitted and accordingly all characters mentioned in the DUS test guidelines of all crop species shall be considered as essential characters under Section 2(h) of PPV&FR Act, 2001.

Sd/-Dr. R.C. Agrawal Registrar-General

## सार्वजनिक सूचना

विषयः पीपीवी और एफआर अधिनियम, 2001 की धारा 21 की उप-धारा (2) और (3) तथा पीपीवी और एफआर नियमावली, 2003 के अंतर्गत नियम 30 और 31 के अंतर्गत दिया गया विज्ञापन ।

आवेदक द्वारा प्रस्तुत किए गए प्रत्येक किस्म के पासपोर्ट आंकड़े, मामले से सम्बद्ध व्यक्तियों की आपत्तियां आमंत्रित करने के लिए यहां विज्ञापित किए जा रहे हैं।

पीपीवी एवं एफआर प्राधिकरण के रजिस्ट्रार से उस स्थान अथवा स्थानों के बाबत जहां पर कि पौधा किस्म के नमूने का निरीक्षण संभव हो, लिखित जानकारी ले सकते हैं।

आवेदन (आवेदनों) के विज्ञापन के तीन माह के अंदर कोई भी व्यक्ति पादप किस्म के पंजीकरण के आवेदन का विरोध करते हुए लिखित आपित/नोटिस दे सकता है (पीपीवी एवं एफआर नियमावली, 2003 की प्रथम अनुसूची के फार्म PV-3 में)। पंजीकरण के विरुद्ध आपितयां, यदि कोई हों तो, तीन प्रतियों में रिजिस्ट्रार, पौधा किस्म एवं कृषक अधिकार संरक्षण प्राधिकरण, एनएएससी काम्प्लैक्स, डीपीएस मार्ग, नई दिल्ली-110012 को प्रस्तुत की जा सकती हैं जिसके साथ शुल्क के रूप में 10,000/-रु. (दस हजार रुपए मात्र) डिमांड ड्राफ्ट के रूप में ''पौधा किस्म एवं कृषक अधिकार संरक्षण प्राधिकरण (पीपीवी एवं एफआर आथारिटी)'' के नाम से नई दिल्ली में देय होनी चाहिए।

#### **PUBLIC NOTICE**

Subject: Advertisement is given under sub-section (2) and (3) of Section 21 of the Protection of Plant Varieties and Farmers' Rights Act, 2001 and Rules 30 and 31 of PPV&FR Rules, 2003.

The passport data of each variety furnished by the applicant are herewith advertised as specified for calling objections from any person.

The place or places where the specimen of the variety may be inspected can be obtained in writing from the Registrar of the PPV&FR Authority.

Any person may, within three months from the date of advertisement of the application(s) give notice of opposition in writing to the Registration of variety (as per Form PV-3 of the First Schedule of PPV&FR Rules, 2003). Oppositions, if any, to the Registration must be submitted, in triplicate, to the Registrar, PPV&FRA, NASC Complex, DPS Marg, New Delhi -110 012 accompanied with the fee of Rs.10,000/- (Rupees Ten Thousand Only) by way of Demand Draft drawn in favour of "PPV&FR Authority" payable at New Delhi.

#### FORM 0-1

#### (See Rule 30)

#### Government of India, Plant Varieties Registry

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

**Passport data of the variety** : CSV 30F

**Applicant** : ICAR, New Delhi

Address of the applicant : Director & Project Coordinator, ICAR-Indian Institute of

Millets Research, Rajendra Nagar, Hyderabad, Telangana-

500030

Nationality of applicant : Indian

**Application details** :

a. Number : N4 SB10 15 1428

b. Date of receipt : 21.07.2015

**Crop (taxonomical lineage)** : Sorghum (Sorghum bicolor L.)

**Denomination** : CSV 30F **Type of variety** : New

Classification of variety : Typical (Pure line)
Name of parental material : NSS223 x NARI 111
Name of reference varieties : CSV 21 F, HC 308

Notification details : Number: 1919 (E), Dated: 30.07.2014

#### Variety description:

A. Group characteristics	Remarks (measured values/example
	varieties etc.)
Kharif or rabi adaptation	Kharif
Plant: Time of panicle emergence (50% of the plants	Late
with complete panicle emergence) (Characteristic 4)	
Plant: Total height at maturity) (Characteristic 18)	Long
Panicle: Shape (Characteristic 27)	Symmetrical
Caryopsis: Colour after threshing (Characteristic 33)	Yellow white

#### **B.** Distinct characteristics of candidate variety:

CSV 30F: It has distinguishing characters like greyed purple anthocyanin colouration of coleoptile, anthocyanin colouration of stigma present, greyed red glume colour, medium panicle length, symmetric panicle shape, partly threshable, low grain weight, lustrous grain

#### C. Distinct characteristics of reference varieties:

CSV 21 F: It has distinguishing characters like yellow colouration in flag leaf present, greyed orange glume colour, very low grain weight, non lustrous grain

HC 308: It has distinguishing characters like anthocyanin colouration of stigma absent, greyed orange glume colour

## D. Date of commercialization of the variety Not Commercialized

## E. Agronomic and commercial attributes:

S. no.	Agronomic attributes	Details
1.	Days to physiological maturity (average)	115-118
2.	Seed rate per ha	10 kg/ha
3.	3. Recommended nutrition/ha schedule to attain potential yield and time of applic	
	Organic (per ha)	-
	Inorganic (per ha)	100:50:0 kg/ha NPK
	Other fertilizers (per ha)	-
4.	Spacing (cm) requirement to attain potential yield	
	Row to row	45 cm
	Plant to plant	15 cm
5.	Soil type requirement to attain the potential yield	Medium to deep black
6.	Plant protection measures to attain the potential yield	-
7.	Sowing window requirement to attain potential yield	15 <sup>th</sup> September to 1 <sup>st</sup> week
	(zone-wise)	of October
8.	Number of irrigations required to attain potential yield	4
9.	The best growing season to attain the potential yield (zone-wise)	(Zone-I & Zone-II)
10.	Name the cropping/climatic zone of India in which the	-
	varietal/hybrid trials were conducted	
11.	Intercultural operations (including training, pruning &	Thinning 15-20 DAS, 3
	nipping)	hoeing at 3, 4 & 8 weeks
		after sowing
12.	Any other relevant information specific to the	-
	variety/hybrid	
	Commercial attributes	
1.	Zone-wise yield potential (average) per ha (q/ha)	Zone- $I = 18.8 \text{ q/ha}$
	(if applicable)	Zone-II = $10.5 \text{ q/ha}$
2.	Seed yield/ha (average)	16.7 q/ha

2. Application No. E4 SB18 16 1757 filed on 27.10.2016 by Mahatma Phule Krishi Vidyapeeth, Rahuri, All India Co-ordinated Sorghum Improvement Project, MPKV, Rahuri-413722, Maharashtra for an extant plant variety notified under the Seed Act, 1966 of

crop **Sorghum** (*Sorghum bicolor* L.) having denomination **Phule Madhur** (**RSSGV 46**), has been accepted and given registration number ------NA ------- NA -------

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

Passport data of the variety : Phule Madhur (RSSGV 46)

**Applicant** : Mahatma Phule Krishi Vidyapeeth, Rahuri

Address of the applicant : Dr. S.R.Gadakh, Senior Sorghum Breeder, All India Co-

ordinated Sorghum Improvement Project, MPKV, Rahuri-

413722

**Nationality of Applicant** : Indian

Application details

**a. Number** : E4 SB18 16 1757

**b. Date of receipt** : 27.10.2016

Crop (taxonomical lineage): Sorghum (Sorghum bicolor L.)Denomination: Phule Madhur (RSSGV 46)

**Type of variety** : Extant

Classification of variety : Others (Special purpose for hurda)

Name of parental material : RSSGV 6 x Gulbhendi

Name of reference variety : Phule Uttara

Notification details : Number: 2238 (E), Dated: 29.06.2016

#### Variety description:

A. Group characteristics	Remarks (measured values/example
	varieties etc.
Kharif or rabi adaptation	Rabi
Plant: Time of panicle emergence (50% of the plants	Medium
with complete panicle emergence) (Characteristic 4)	
Plant: Total height at maturity) (Characteristic 18)	Long
Panicle: Shape (Characteristic 27)	Broader in lower part
Caryopsis: Colour after threshing (Characteristic 33)	White

#### **B.** Distinct characteristics of candidate variety:

Phule Madhur (RSSGV 46): It has distinguishing characters like leaf midrib colour white, short anther length, semi compact panicle density at maturity, glume length short, elleptic grain shape, panicle shape is broader in lower part, medium grain weight, circular grain shape, non-lustrous grain

#### C. Distinct characteristics of reference variety:

Phule Uttara: It has distinguishing characters like leaf midrib colour yellow green, medium anther length, semi loose panicle density at maturity, medium grain weight, lustrous grain

E. Ag	E. Agronomic and commercial attributes		
S.no.	Agronomic attributes	Details	
1.	Growth habit (determinate/indeterminate)	-	
2.	Days to flowering/anthesis (average)	77 days	
3.	Days to physiological maturity (average)	121 days	
4.	Seed rate per ha	10kg/ha	
5.	Recommended nutrition/ha schedule to attain potential yield and time of application		
	Organic (per ha)		
	Inorganic (per ha)	80:40:40 kg/ha NPK	
	Other fertilizers (per ha)	-	
6.	Spacing (cm) requirement to attain potential yield		
	Row to row	45 cm	
	Plant to plant	15 cm	
7.	Soil requirements to attain the potential yield	-	
8.	Plant protection measures to attain the potential yield	-	
9.	Sowing window requirement to attain potential yield	15 <sup>th</sup> September- 15 <sup>th</sup> October	
	(zone-wise)		
10.	Number of irrigations required to attain potential yield	4	
11.	The best growing season to attain the potential yield	Rabi	
	(zone-wise)		
12.	Name the cropping/climatic zone of India in which the	-	
	varietal/hybrid trials were conducted		
13.	Intercultural operations (including training, pruning &	Thinning 15-20 DAS	
	nipping)		
14.	Any other relevant information specific to the	For hurda purpose	
	variety/Hybrid		
	Commercial attributes		
1.	Zone- wise yield potential (average) per ha (q/ha)	-	
	(if applicable)		
2.	Seed yield/ha (average)	Seed yield = 18-20 q/ha	
		Fodder yield = 60-65 q/ha	
		Hurda yield = 35-40 q/ha	

3. Application No. E10 TA58 18 702 filed on 31.10.2018 by University of Agricultural Sciences, Director of Research, UAS, Dharwad-580005, Karnataka for an extant plant variety notified under the Seed Act, 1966 of crop Bread Wheat (*Triticum aestivum* L.) having denomination UAS 334, has been accepted and given registration number ------NA ------

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi  $-110\,012$ .

**Passport data of the variety** : UAS 334

**Applicant** : University of Agricultural Sciences (UAS), Dharwad

Address of the applicant : Director of Research, UAS, Dharwad-580005

**Nationality of applicant** : Indian

**Application details** 

**a. Number** : E10 TA58 18 702

**b. Date of receipt** : 31.10.2018

**Crop** (taxonomical lineage) : Bread Wheat (*Triticum aestivum* L.)

**Denomination** : UAS 334 **Type of variety** : Extant

Classification of variety : Typical variety

Name of parental material : SITE/M0/NAC/TH.AC//3\*/PVN/3/MIRLO x BUC

Name of reference varieties : GV322, UAS 304

Notification details : Number: 1379 (E), Dated: 27.03.2018

#### Variety description:

A. Group characteristics	Remarks (measured values/ example varieties etc.)
Flag leaf: Anthocynin coloration of auricle (Characteristic 4)	Absent
Plant length (Characteristic 14)	86 cm
Awn or scurs: Presence (Characteristic 18)	Present
Outer glume: Pubescence (Characteristic 23)	Absent
Ear: Colour (Characteristic 24)	White
Season type (Characteristic 37)	Spring

#### B. Distinct characteristics of candidate variety:

UAS 334: It has distinguishing characters like semi-erect plant growth habit, pale green foliage colour, medium ear waxiness, weak waxiness of culm neck, parallel ear shape, medium peduncle length, short brush hair length.

#### **C. Distinct characteristics of reference varieties:**

GV322: It has distinguishing characters like weak ear waxiness, medium waxiness of culm neck, tapering ear shape, long peduncle length.

UAS 304: It has distinguishing characters like erect plant growth habit, dark green foliage colour, medium waxiness of culm neck, tapering ear shape, long peduncle length, short brush hair length

## **D. Date of commercialization of the variety** 2016-2017

#### E. Agronomic and commercial attributes

S.no.	Agronomic attributes	Details
1.	Growth habit (determinate/indeterminate)	-
2.	Days to flowering/anthesis (average)	62 days
3.	Days to physiological maturity (average)	107 days
4.	Seed rate per ha	150 kg/ha
5.	Recommended nutrition/ha schedule to attain potential yield and time of application	
	Organic (per ha)	-

	Inorganic (per ha)	100:60:40 kg/ha
		NPK
	Other fertilizers (per ha)	-
6.	Spacing (cm) requirement to attain potential yield	
	Row to row	20 cm
	Plant to plant	5 cm
7.	Soil requirements to attain the potential yield	-
8.	Plant protection measures to attain the potential yield	-
9.	Sowing window requirement to attain potential yield	1 <sup>st</sup> -15 <sup>th</sup> November
	(zone-wise)	
10.	Number of irrigations required to attain potential yield	-
11.	The best growing season to attain the potential yield (zone-wise)	Rabi
12.	Name the cropping/climatic zone of India in which the	Zone 3 & zone 8 of
	varietal/hybrid trials were conducted	Karnataka
13.	Intercultural operations (including training, pruning& nipping)	-
14.	Any other relevant information specific to the variety/hybrid	33.3% protein
		content(high)
	Commercial attributes	
1.	Zone- wise yield potential (average) per ha (q/ha)	Zone III = 49.8 q/ha
	(if applicable)	Zone $VIII = 48.3$
		q/ha
2.	Seed yield/ha (average)	49.1q/ha

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi  $-110\,012$ .

Passport data of the variety : UAS 375

**Applicant** : University of Agricultural Sciences (UAS), Dharwad

**Address of the applicant**: Director of Research, UAS, Dharwad-580005

**Nationality of applicant** : Indian

Application details

**a. Number** : E10 TA58 18 701

**b. Date of receipt** : 31.10.2018

**Crop** (taxonomical lineage) : Bread Wheat (*Triticum aestivum* L.)

**Denomination** : UAS 375 **Type of variety** : Extant **Classification of variety** : Typical variety

Name of parental material : UAS 320/GW322 x LOK 62

Name of reference variety : NIAW-1415

Notification details : Number: 1379 (E), Dated: 27.03.2018

#### Variety description:

A. Group characteristics	Remarks (measured values/
	example varieties etc.)
Flag leaf: Anthocynin coloration of auricle (Characteristic 4)	Absent
Time of ear emergence (Characteristic 7)	54 days
Awn or scurs: Presence (Characteristic 18)	Present
Outer glume: Pubescence (Characteristic 23)	Absent
Ear: Colour (Characteristic 24)	White
Season type (Characteristic 37)	Spring

#### B. Distinct characteristics of candidate variety:

UAS 375: It has distinguishing characters like semi-erect plant growth habit, dark green foliage colour, medium ear waxiness, medium waxiness of culm neck, parallel ear shape, medium ear density, medium peduncle length, elleptical grain shape.

#### C. Distinct characteristics of reference variety:

NIAW-1415: It has distinguishing characters like semi-erect plant flag leaf attitude, medium waxiness leaf sheath, lax ear density, awn attitude spreading, long peduncle length, oblong grain shape, short brush hair length.

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D. Da	te of commercialization of the variety 2016-2017	
E. Agronomic and commercial attributes		
S.no.	Agronomic attributes	Details
1.	Growth habit (determinate/indeterminate)	-
2.	Days to flowering/anthesis (average)	54
3.	Days to physiological maturity (average)	103 days
4.	Seed rate per ha	100kg/ha
5.	5. Recommended nutrition/ha schedule to attain potential yield and time of applic	
	Organic (per ha)	-
	Inorganic (per ha)	80:30:20 kg/ha NPK
	Other fertilizers (per ha)	-
6.	Spacing (cms) requirement to attain potential yield	
	Row to row	20 cm
	Plant to plant	5 cm
7.	Soil requirements to attain the potential yield	-
8.	Plant protection measures to attain the potential yield	-
9.	Sowing window requirement to attain potential yield	Rainfed
	(zone-wise)	
10.	Number of irrigations required to attain potential yield	-
11.	The best growing season to attain the potential yield (zone	e- Rabi
	wise)	

12.	Name the cropping/climatic zone of India in which the	Peninsular zone
	varietal/hybrid trials were conducted	
13.	Intercultural operations (including training, pruning & nipping)	•
14.	Any other relevant information specific to the variety/hybrid	13.8% protein content
		(high)
	Commercial attributes	
1.	Zone- wise yield potential (average) per ha (q/ha)	-
	(if applicable)	
2.	Seed yield/ha (average)	21.4 q/ha

5. Application No. E1 TD2 18 692 filed on 14.09.2018 by Indian Council of Agricultural Research, Director, ICAR-IARI, New Delhi 110012 for an extant plant variety notified under the Seed Act, 1966 of crop Durum Wheat (*Triticum durum* L.) having denomination HD 4728 (Pusa Malwi), has been accepted and given registration number ------NA -------NA --------

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

Passport data of the variety: HD 4728 (Pusa Malwi)Applicant: ICAR-IARI, New Delhi

**Address of the applicant**: Director, ICAR-IARI, New Delhi 110012

**Nationality of applicant** : Indian

**Application details** :

**a. Number** : E1 TD2 18 692

**b. Date of receipt** : 14.09.2018

**Crop** (taxonomical lineage) : Durum Wheat (*Triticum durum* L.)

**Denomination** : HD 4728 (Pusa Malwi)

**Type of variety** : Extant

Name of parental material : ALTAR84/STINT//SLVER45/3/SOMAT3.1/

4/GREEN14/YAV/AUK

Name of reference varieties : HI8498, MPO1215 Classification of variety : Typical variety

Notification details : Number: 2238(E), Dated: 29.06.2016

#### Variety description:

variety description			
A. Group characteristics	Remarks (measured values/		
	example varieties <i>etc.</i> )		
Coleoptile colouration (Characteristic 1)	Absent		
Flag leaf: Anthocynin coloration of auricle (Characteristic 4)	Absent		
Time of ear emergence (Characteristic 7)	Early		
Plant length (Characteristic 15)	Medium		

Awn colour (Characteristic 21)	White
Outer glume: Pubescence (Characteristic 23)	Absent
Ear: Colour (Characteristic 24)	White
Season type (Characteristic 39)	Spring
Grain colouration with phenol (Characteristic 32)	Negative

#### **B.** Distinct characteristics of candidate variety:

HD 4728 (Pusa Malwi): It has distinguishing characters like coleoptile anthocyanin colouration absent, green foliage colour, medium flag leaf waxiness of sheath, medium ear waxiness, medium peducnle waxiness, very dense ear density, straight awn attitude, medium glume shoulder width, medium glume beak length, elleptical grain shape, medium brush hair length.

#### C. Distinct characteristics of reference varieties:

HI8498: It has distinguishing characters like coleoptile anthocyanin colouration present, very strong flag leaf waxiness of sheath, very strong ear waxiness, very strong peducnle waxiness, medium awn attitude, short glume beak length, oblong grain shape.

MPO1215: It has distinguishing characters like coleoptile anthocyanin colouration present, dark green foliage colour, strong flag leaf waxiness of sheath, strong ear waxiness, strong peducnle waxiness, medium awn attitude, narrow glume shoulder width, short glume beak length, oblong grain shape, short brush hair length.

D. Da	<b>D. Date of commercialization of the variety</b> 05.11.2016				
E. Ag	E. Agronomic and commercial attributes				
S.no.	Agronomic attributes	Details			
1.	Growth habit (determinate/indeterminate)	-			
2.	Days to flowering/anthesis (average)	73 days			
3.	Days to physiological maturity (average)	120 days			
4.	Seed rate per ha	131.5 kg/ha			
5.	Recommended nutrition/ha schedule to attain potential yield and t	ime of application			
	Organic (per ha)				
	Inorganic (per ha)	120:60:40 kg/ha NPK			
	Other fertilizers (per ha)				
6.	Spacing (cm) requirement to attain potential yield				
	Row to row	20-22.5 cm			
	Plant to plant	-			
7.	Soil requirements to attain the potential yield	-			
8.	Plant protection measures to attain the potential yield	-			
9.	Sowing window requirement to attain potential yield	10 <sup>th</sup> – 25 <sup>th</sup> November			
	(zone-wise)				
10.	Number of irrigations required to attain potential yield	4 to 5			
11.	The best growing season to attain the potential yield (zone-wise) Spring				
12.	Name the cropping/climatic zone of India in which the Central zo				
	varietal/hybrid trials were conducted				
13.	Intercultural operations (including training, pruning & nipping)	-			
14.	Any other relevant information specific to the variety/hybrid	-			
	Commercial attributes				

1.	Zone- wise yield potential (average) per ha (q/ha)	Central zone: 54.7	
	(if applicable)	q/ha	
2.	Seed yield/ha (average)	54.18 q/ha	

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi  $-110\,012$ .

**Passport data of the variety** : DWRB 137 (Central Barley DWRB 137)

**Applicant** : ICAR, New Delhi

**Address of the applicant**: Director, ICAR-IIWBR, Karnal-132001

**Nationality of applicant** : Indian

Application details

**a. Number** : E1 HV17 18 536

**b. Date of receipt**  $: \overline{08.06.2018}$ 

**Crop** (taxonomical lineage) : Barley (*Hordeum vulgare* L.)

**Denomination** : DWRB 137 (Central Barley DWRB 137)

**Type of variety** : Extant

Classification of variety: Typical (pure line)Name of parental material: DWR28 x DWRUB64Name of reference varieties: HUB113, BH959

Notification details : Number: 1379 (E), Dated: 27.03.2018

#### Variety description:

A. Group characteristics	Remarks (measured values/example varieties <i>etc.</i> )
Stem: Basal pigmentation (Characteristic 2)	Present
Auricle: Anthocyanin pigmentation (Characteristic 3)	Absent
Spike emergence (Characteristic 7)	Medium
Spike type (row number) (Characteristic 8)	6 rows
Plant height (Characteristic 20)	Medium
Spike density (Characteristic 25)	Dense
Grain hullness (Characteristic 26)	Hulled
Grain: colour (Characteristic 27)	Yellow

#### B. Distinct characteristics of candidate variety:

DWRB 137 (Central Barley DWRB 137): It has distinguishing characters like erect growth habit, stem basal pigmentation present, flag leaf attitude erect, flag leaf waxiness of leaf present, medium spike emergence, spike type 6 row, medium plant height, normal awns, spike density dense, yellow grain colour, oblong grain shape, large grain size, grain crease width narrow

#### C. Distinct characteristics of reference varieties:

HUB113: It has distinguishing characters like stem basal pigmentation absent, elongated grain shape

BH959: It has distinguishing characters like spike density intermediate, elongated grain shape.

#### **D. Date of commercialization of the variety** 01.11.2017

#### E. Agronomic and commercial attributes

S.no.	Agronomic attributes	Details	
1.	Growth habit (determinate/indeterminate)	-	
2.	Days to flowering/anthesis (average)	-	
3.	Days to physiological maturity (average)	115 days	
4.	Seed rate per ha	100 kg/ha	
5.	Recommended nutrition/ha schedule to attain potential yield and	time of application	
	Organic (per ha)	-	
	Inorganic (per ha)	60:30:20 kg/ha NPK	
	Other fertilizers (per ha)	-	
6.	Spacing (cm) requirement to attain potential yield		
	Row to row	18 cm	
	Plant to plant	2-3 cm	
7.	Soil requirements to attain the potential yield	Loam to light	
8.	Plant protection measures to attain the potential yield	-	
9.	Sowing window requirement to attain potential yield	10 <sup>th</sup> -25 <sup>th</sup> November	
	(zone-wise)		
10.	Number of irrigations required to attain potential yield	3	
11.	The best growing season to attain the potential yield (zone-wise)	Irrigated condition	
12.	Name the cropping/climatic zone of India in which the	North Eastern Plain	
	varietal/hybrid trials were conducted	zone & Central zone	
13.	Intercultural operations (including training, pruning& nipping)	-	
14.	Any other relevant information specific to the variety/hybrid	-	
	Commercial attributes		
1.	Zone- wise yield potential (average) per ha (q/ha)	40.21q/ha	
	(if applicable)		
2.	Seed yield/ha (average)	42.49 q/ha	

7. Application No.	E1	AC1	18	695	filed on 25.10.2018 by Indian Council of
<b>Agricultural Resea</b>	Agricultural Research, Director, ICAR- Directorate of Onion and Garlic Research, Rajgur				
Nagar, Pune, Maharashtra-410505 for an extant plant variety notified under the Seed Act, 1966					
of crop Onion (Alium cepa L.) having denomination Bhima Safed, has been accepted and given					
registration numberNAonNA					

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi  $-110\,012$ .

**Passport data of the variety** : Bhima Safed

**Applicant** : Indian Council of Agricultural Research, New Delhi

Address of the applicant : Director, ICAR - Directorate of Onion and Garlic

Research, Rajguru Nagar, Pune, Maharashtra-410505

**Nationality of applicant** : Indian

Application details

**a. Number** : E1 AC1 18 695

**b. Date of receipt** : 25.10.2018

**Crop** (taxonomical lineage) : Onion (*Alium cepa* L.)

**Denomination** : Bhima Safed

**Type of variety** : Extant

**Classification of variety** : Typical (Open pollinated variety)

Name of parental material : Segregating white bulbs from red onion variety B-780 : Bhima Shubhra, Bhima Shwetha, Akola Saphed

Notification details : Number: 2277 (E), Dated: 17.08.2015

#### Variety description:

A. Group characteristics	Remarks (measured values/
	example varieties etc.)
Bulb: Diameter (Characteristic 5)	Medium
Bulb: General shape (in longitudinal section) (Characteristic 23)	Globe
Bulb: Basic colour of dry skin (Characteristic 24)	White
Bulb: Degree of splitting into bulblets (with dry skin around	Absent
each bulblet) (Characteristic 32)	

#### B. Distinct characteristics of candidate variety:

Bhima Safed: It has distinguishing characters like few number of leaves per pseudo-stem, medium bulb time of maturity, semi erect foliage attitude, medium pseudo-stem diameter, globe general shape of bulb, thin bulb thickness of bulb, single bulb predominant number of access, degree of splitting into bulblets is absent.

#### C. Distinct characteristics of reference varieties:

Bhima Shubhra: It has distinguishing characters like few number of leaves per pseudo-stem, medium bulb time of maturity, semi erect foliage attitude, small pseudo-stem diameter, globe general shape of bulb, thin thickness of bulb, single bulb predominant number of access, degree of splitting into bulblets is absent

Bhima Shwetha: It has distinguishing characters like medium number of leaves per pseudostem, late bulb time of maturity, semi erect foliage attitude, medium pseudo-stem diameter, flat globe general shape of bulb, medium bulb thickness of bulb, single bulb predominant number of access, degree of splitting into bulblets is absent Akola Saphed: It has distinguishing characters like few number of leaves per pseudo-stem, late bulb time of maturity, erect foliage attitude, small pseudo-stem diameter, flat globe general shape of bulb, thin bulb thickness of bulb, multiple bulb predominant number of access, degree of splitting into bulblets is medium

#### E. Agronomic and commercial attributes

S.no.	Agronomic attributes	Details
1.	Growth habit (determinate/indeterminate)	-
2.	Days to flowering/anthesis(average)	-
3.	Days to maturity (average)	-
4.	Planting material/seed material requirement	Seed rate: 8-10 kg/ha
5.	Fertilizer requirement to attain potential yield and time of app	lication
	Organic (per ha)	-
	Inorganic (per ha)	100:50:50 kg/ha NPK, Sulphur 50 kg/ha
	Other fertilizers (per ha or per plant)	-
6.	Spacing (cm) requirement to attain potential yield	
	Row to row	-
	Plant to plant	-
7.	Soil requirements to attain the potential yield	fertile loamy soil
8.	Plant protection measures to attain the potential yield	-
9.	Sowing window requirement to attain potential yield (zonewise)	-
10.	Number of irrigations required to attain potential yield (zone-wise)	-
11.	The best growing season to attain the potential yield	Kharif
12.	Name the cropping/climatic zone of India in which the varietal/hybrid trials were conducted	IV, V and IV zones
13.	Any other relevant information specific to the variety/hybrid	_
10.	Commercial attributes	
1.	Yield potential (average) per ha (q/ha)	_
2.	Yield (q/ha)	197.19 q/ha
<b>-</b> ·	1 1010 (4/110)	1 - / / 9/

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

**Passport data of the variety** : SML 668

**Applicant** : Punjab Agricultural University

**Address of the applicant** : PAU, Ludhiana-141004

**Nationality of applicant** : Indian

**Application details** 

**a. Number** : E2 VR6 16 801

**b. Date of receipt** : 27.06.2016

**Crop (taxonomical lineage)** : Green gram (*Vigna radiate* L.)

**Denomination** : SML 668 **Type of variety** : Extant

Classification of variety : Typical variety

Name of parental material : NM 94

Notification details : Number: 283 (E), Dated: 12.03.2003

#### Variety description:

A. Group characteristics	Remarks (measured values/example varieties etc.)
Hypocotyl: Anthocyanin colouration (Characteristic 1)	Present
Time of flowering (Characteristic 2)	Early
Seed: Lusture (Characteristic 22)	Medium Shiny
Seed: Size (Characteristic 24)	Bold

#### **B.** Distinct characteristics of candidate variety:

SML 668:It has distinguishing characters like long matured pod length, above canopy pod position, drooping pod attachment, thick pod wall, determinate plant habit, short plant height.

#### C. Distinct characteristics of reference variety: --

**D. Date of commercialization of the variety** | 12.03.2003

#### E. Agronomic and commercial attributes

S.no.	. Agronomic attributes Details		
1.	Growth habit (determinate/indeterminate)	-	
2.	Days to flowering/anthesis (average)	34	
3.	Days to physiological maturity (average)	60	
4.	Seed rate per ha	40 kg/ha	
5.	Recommended nutrition/ha schedule to attain potential yield and ti	me of application	
	Organic (kg/ha)	-	
	Inorganic (kg/ha)	-	
	Other fertilizers (kg/ha)	-	
6.	Spacing (cm) requirement to attain potential yield		
	Row to row	-	
	Plant to plant	-	
7.	Soil requirements to attain the potential yield	-	
8.	Plant protection measures to attain the potential yield	-	

9.	Sowing window requirement to attain potential yield (zone-wise)	25 <sup>th</sup> March - 25 <sup>th</sup>
		April
10.	Number of irrigations required to attain potential yield	-
11.	The best growing season to attain the potential yield (zone-wise)	Summer
12.	Name the cropping/climatic zone of India in which the	-
	varietal/hybrid trials were conducted	
13.	Intercultural operations	-
14.	Any other relevant information specific to the variety/hybrid	Resistant to
		MYMV
	Commercial attributes	
1.	Zone- wise yield potential (average) per ha (q/ha)	12.04 q/ha
	(if applicable)	
2.	Seed yield/ha(average)	11.33 q/ha

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

**Passport data of the variety** : BRG 5

**Applicant** : University of Agricultural Sciences, Bangalore

**Address of the applicant** : Dr. M. Byre Gowda, Principal Scientist (Plant Breeding),

AICRP on Pigeon Pea, UAS, Bangalore-560065

**Nationality of applicant** : Indian

Application details

a. Number : E2 CC86 17 1451

b. Date of receipt : 25.04.2017

**Crop** (taxonomical lineage) : Pigeon Pea (*Cajanus cajan* L.)

**Denomination** : BRG 5 **Type of variety** : Extant

**Classification of variety** : Typical variety

Name of parental material : BRG 3 x ICPL 99046

Name of reference varieties : BRG 2

Notification details : Number: 3540 (E), Dated: 22.11.2016

#### Variety description:

A. Group characteristics	Remarks (measured values/example varieties etc.)

Time of flowering (Characteristic 3)	Medium
Plant: Growth habit (Characteristic 4)	Indeterminate
Stem: Colour (Characteristic 5)	Green
Pod: Waxiness (Characteristic 12)	Absent
Seed: Colour (Characteristic 18)	Brown

#### B. Distinct characteristics of candidate variety:

BRG 5:It has distinguishing characters like red flower colour, brown seed colour, resistance to fusarium wilt disease.

#### C. Distinct characteristics of reference variety:

BRG 2: It has distinguishing characters like yellow flower colour, green pod colour, medium large pod length, cream seed colour, susceptable to fusarium wilt disease

#### **D. Date of commercialization of the variety** 25.05.2016

#### E. Agronomic and commercial attributes

S.no.	Agronomic attributes	Details
1.	Growth habit (determinate/indeterminate)	Indeterminate
2.	Days to flowering/anthesis (average)	100-105
3.	Days to physiological maturity (average)	160-170
4.	Seed rate per ha	15 kg/ha
5.	Recommended nutrition/ha schedule to attain potential yield and time of application	
	Organic (kg/ha)	-
	Inorganic (kg/ha)	25:50:25 kg/ha NPK
	Other fertilizers (kg/ha)	
6.	Spacing (cm) requirement to attain potential yield	
	Row to row	90 cm
	Plant to plant	20 cm
7.	Soil requirements to attain the potential yield	-
8.	Plant protection measures to attain the potential yield	-
9.	Sowing window requirement to attain potential yield (zone-wise)	May to July
10.	Number of irrigations required to attain potential yield	-
11.	The best growing season to attain the potential yield (zonewise)	Kharif
12.	Name the cropping/climatic zone of India in which the varietal/hybrid trials were conducted	Zone – IV
13.	Intercultural operations	-
14.	Any other relevant information specific to the variety/hybrid	Resistant to wilt disease
	Commercial Attributes	
1.	Zone- wise yield potential (average) per ha (q/ha) (if applicable)	-
2.	Seed yield (q/ha) (average)	18-20 q/ha

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

**Passport data of the variety** : Tunga

**Applicant** : UAHS, Shimoga

Address of the applicant : Director of Research, University of Agricultural and

Horticultural Sciences, Shimoga

Nationality of applicant : Indian

**Application details** 

a. Number : E15 OS118 18 629

**b. Date of receipt** :  $\overline{18.07.2018}$ 

**Crop (taxonomical lineage)** : Rice (*Oryza sativa* L.)

**Denomination** : Tunga **Type of variety** : Extant

Classification of variety : Typical (Pure line)
Name of parental material : Pankaj x Mahsuri
Name of reference varieties : KHP2, IET 7191

Notification details : Number: 1572 (E), Dated: 20.09.2016

#### **Variety description:**

A. Group characteristics	Remarks (measured values/example varieties <i>etc.</i> )	
Basal leaf: Sheath colour (Characteristic 2)	Green	
Time of heading (50% of plants with panicles)	Late	
(Characteristic 20)		
Stem: Length (excluding panicle; excluding floating	Medium	
rice) (Characteristic 29)		
Decorticated grain: Length (Characteristic 54)	-	
Decorticated grain: Shape (in lateral view)	-	
(Characteristic 56)		
Decorticated grain: Colour (Characteristic 57)	White	
Endosperm: Content of amylose (Characteristic 59)	-	
Decorticated grain: Aroma (Characteristic 62)	Absent	

#### B. Distinct characteristics of candidate variety:

Tunga: It has distinguishing characters like short stem length, panicle has no secondary branching, no colour of sterile lamella, very high grain weight, long slender decorticated grain shape.

#### C. Distinct characteristics of reference varieties:

KHP2: It has distinguishing characters like short stem length, panicle has secondary branching, partly coloured sterile lamella, very high grain weight, long bold decorticated grain shape IET 7191: It has distinguishing characters like very short stem length, secondary branching in panicle is absent, colour in sterile lamella is absent, high grain weight, medium bold decorticated

D. Da	D. Date of commercialization of the variety May, 2005		
E. Agronomic and commercial attributes			
S.no.	Agronomic attributes		Details
1.	Growth habit (determinate/indeterminate)		-
2.	Days to flowering/anthesis (average)		120-125
3.	Days to physiological maturity (average)		150-155
4.	Seed rate per ha		62.5 kg/ha
5.	Recommended nutrition/ha schedule to attain potential yield a		nd time of application
	Organic (per ha)		-
	Inorganic (per ha)		70:75:87.5 kg/ha NPK
	Other fertilizers (per ha)		-
6.	Spacing (cm) requirement to attain potent	ial yield	
	Row to row		15 cm
	Plant to plant		10 cm
7.	Soil requirements to attain the potential yield		-
8.	Plant protection measures to attain the potential yield		-
9.	Sowing window requirement to attain potential yield		Zone 9 of Karnataka
10.	(zone-wise)  Number of irrigations required to attain potential yield		_
11.			Kharif
11.	The best growing season to attain the potential yield (zonewise)		Knurtj
12.	Name the cropping/climatic zone of Invarietal/hybrid trials were conducted	ndia in which the	-
13.	Intercultural operations (including transping)	raining, pruning&	-
14.	Any other relevant information specific to the variety/hybrid		-
	Commercial attributes		
1.	Zone- wise yield potential (average) per h	a (q/ha)	-
	(if applicable)		
2.	Seed yield q/ha (average)		50-52 q/ha
3.	Straw yield q/ha (average)		70-75 q/ha

11. Application No. E14 OS117 18 628 filed on 18.07.2018 by UAHS, Director of Research, University of Agricultural and Horticultural Sciences, Shimoga for an extant plant variety notified under the Seed Act, 1966 of crop Rice (*Oryza sativa* L.) having denomination

**KHP 9**, has been accepted and given registration number -----NA ------on ------NA ------

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

**Passport data of the variety** : KHP 9

**Applicant** : UAHS, Shimoga-577225

Address of the applicant : Director of Research, University of Agricultural and

Horticultural Sciences, Shimoga

**Nationality of applicant** : Indian

Application details

a. Number : E14 OS117 18 628

b. Date of receipt : 18.07.2018

**Crop** (taxonomical lineage) : Rice (*Oryza sativa* L.)

**Denomination**: KHP 9**Type of variety**: Extant**Classification of variety**: Typical

Name of parental material : Intan x IET 7191 Name of reference varieties : Intan, Hemavathi

Notification details : Number: 112 (E), Dated: 12.01.2016

#### Variety description:

A. Group characteristics	Remarks (measured values/
	example varieties <i>etc.</i> )
Basal leaf: Sheath colour (Characteristic 2)	Green
Time of heading (50% of plants with panicles) (Characteristic	Very late
20)	
Stem: Length (excluding panicle; excluding floating rice)	Medium
(Characteristic 29)	
Decorticated grain: Length (Characteristic 54)	-
Decorticated grain: Shape (in lateral view) (Characteristic 56)	-
Decorticated grain: Colour (Characteristic 57)	White
Endosperm: Content of amylose (Characteristic 59)	-
Decorticated grain: Aroma (Characteristic 62)	Absent

#### **B.** Distinct characteristics of candidate variety:

KHP 9:It has distinguishing characters like white spikelet colour of stigma, medium stem length, erect attitude of flag leaf, secondary branching of panicle absent, well exerted panicle, very late time of maturity, straw colour of sterile lamella, medium grain weight, white colour of decorticated grain, decorticated grain aroma absent

#### C. Distinct characteristics of reference varieties:

3.

Straw yield (q/ha) (average)

Intan: It has distinguishing characters like purple spikelet colour of stigma, short stem length, erect attitude of flag leaf, well exerted panicle, late time of maturity, straw colour of sterile lamella, medium grain weight, white colour of decorticated grain, decorticated grain aroma absent

Hemavathi: It has distinguishing characters like white spikelet colour of stigma, medium stem length, erect attitude of flag leaf, secondary branching of panicle present, well exerted panicle, late time of maturity, straw colour of sterile lamella, medium grain weight, white colour of decorticated grain, decorticated grain aroma absent

decort	icaled grain, decorticaled grain aroma absen	ll	
D. Da	te of commercialization of the variety	May, 2005	
E. Ag	ronomic and commercial attributes		
S.no.	Agronomic attributes		Details
1.	Growth habit (determinate/indeterminate)		-
2.	Days to flowering/anthesis (average)		130-135
3.	Days to physiological maturity (average)		165-170
4.	Seed rate per ha		62.5 kg/ha
5.	Recommended nutrition/ha schedule to att	tain potential yield and ti	me of application
	Organic (per ha)		-
	Inorganic (per ha)		75:75:90 kg/ha NPK
	Other fertilizers (per ha)		-
6.	Spacing (cm) requirement to attain potential yield		
	Row to row		15 cm
	Plant to pant		10 cm
7.	Soil requirements to attain the potential yield		-
8.	Plant protection measures to attain the potential yield		-
9.	Sowing window requirement to attain pote (zone-wise)	ential yield	1st week of June
10.	Number of irrigations required to attain po	otential yield	-
11.	The best growing season to attain the poten	<u> </u>	Kharif
12.	Name the cropping/climatic zone of	India in which the	-
	varietal/hybrid trials were conducted		
13.	Intercultural operations (including training, pruning & nipping)		-
14.	Any other relevant information specific to	the variety/hybrid	-
	Commercial attributes		-
1.	Zone -wise yield potential (average) per ha	a (q/ha)	-
	(if applicable)		
2.	Seed yield (q/ha) (average)		50-52 q/ha
_	O. 111/ // )/		00.05 #

80-85 q/ha

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

Passport data of the variety : DBW 168

**Applicant** : ICAR, New Delhi

Address of the applicant : Director, ICAR-Indian Institute of Wheat & Barley,

Karnal-132001

Nationality of applicant : Indian

**Application details** :

a. Number : N1 TA59 18 704

b. Date of receipt : 22.11.2018

**Crop** (taxonomical lineage) : Wheat (*Triticum aestivum* L.)

**Denomination** : DBW 168

**Type of variety** : New

Classification of variety : Typical (Variety)
Name of parental material : SUNSU X CSHBAI
Name of reference varieties : MACS6222, GW322

Notification details : Number: 1379 (E), Dated: 27.03.2018

#### Variety description:

A. Group characteristics	Remarks (measured values/ example varieties etc.)
Flag leaf: Anthocynin coloration of auricle (Characteristic 4)	Absent
Time of ear emergence (Characteristic 7)	Medium
Plant length (Characteristic 14)	Medium
Awn or scurs: Presence (Characteristic 18)	Present
Outer glume: Pubescence (Characteristic 23)	Absent
Ear: Colour (Characteristic 24)	White
Season type (Characteristic 37)	Spring
Grain hardness (Characteristic 38)	Semi hard

#### B. Distinct characteristics of candidate variety:

DBW 168: It has distinguishing characters like semi erect plant growth habit, green foliage colour, flag leaf anthocyanin colouarion of auricle absent, flag leaf hair on auricle absent, medium flag leaf waxiness of sheath, medium ear density, outer glume pubescence absent, white ear colour, amber grain colour, oblong grain shape, medium grain width, medium brush hair length, large seed size

#### C. Distinct characteristics of reference varieties:

MACS6222: It has distinguishing characters like erect plant growth habit, dark green foliage colour, flag leaf hair on auricle medium, strong flag leaf waxiness of sheath, medium seed size GW322: It has distinguishing characters like strong flag leaf waxiness of sheath, wide grain width, medium brush hair length, medium seed size

D. Da	te of commercialization of the variety Not Commercialized		
E. Ag	ronomic and commercial attributes		
S.no.	Agronomic attributes	Details	
1.	Growth habit (determinate/indeterminate)	-	
2.	Days to flowering/anthesis (average)	-	
3.	Days to physiological maturity (average)	115	
4.	Seed rate per ha	100 kg/ha	
5.	Recommended nutrition/ha schedule to attain potential yield and	d time of application	
	Organic (per ha)	-	
	Inorganic (per ha)	20:60:40 kg/ha NPK	
	Other fertilizers (per ha)	-	
6.	-		
	Row to row	20 - 22.5  cm	
	Plant to plant	-	
7.	Soil requirements to attain the potential yield	-	
8.	Plant protection measures to attain the potential yield	-	
9.	Sowing window requirement to attain potential yield (zone-	5 <sup>th</sup> November - 20 <sup>th</sup>	
	wise)	November	
10.	Number of irrigations required to attain potential yield	4 - 5	
11.	The best growing season to attain the potential yield (zone-	Spring	
	wise)		
12.	Name the cropping/climatic zone of India in which the	-	
	varietal/hybrid trials were conducted		
13.	Intercultural operations (including training, pruning& nipping)	1-2 hand weeding at	
		4 <sup>th</sup> & 8 <sup>th</sup> week after	
		sowing	
14.	Any other relevant information specific to the variety/hybrid	-	
	Commercial attributes		
1.	Zone -wise yield potential (average) per ha (q/ha)	-	
	(if applicable)		
2.	Seed yield/ha (average)	48.2 q/ha	

13. Application No. N1 AC2 17 1796 filed on 22.08.2017 by Indian Council of Agricultural Research, Director, ICAR-Directorate of Onion and Garlic Research, Pune, Maharashtra for a new plant variety notified under the Seed Act, 1966 of crop Onion (*Alium cepa* L.) having denomination Bhima Light Red (DOGR-571-LR), has been accepted and given registration number -----NA ---------- NA --------

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi  $-110\,012$ .

**Passport data of the variety** : Bhima Light Red (DOGR-571-LR)

**Applicant** : ICAR, New Delhi

**Address of the applicant**: Director, ICAR-DOGR, Pune

Nationality of applicant : Indian

Application details

a. Number : N1 AC2 17 1796

b. Date of receipt : 22.08.2017

**Crop** (taxonomical lineage) : Onion (Alium cepa L.)

**Denomination** : Bhima Light Red (DOGR-571-LR)

**Type of variety** : New

**Classification of variety** : Others (OPV)

Name of parental material : Selection from accession 579 from APMC,

Name of reference varieties : Arka Nikethan, Bhima Kiran

Notification details : Number: 261 (E), Dated: 16.01.2018

## Variety description:

A. Group characteristics	Remarks (measured values/ example varieties <i>etc.</i> )
Bulb: Diameter (Characteristic 5)	Medium
Bulb: General shape (in longitudinal section) (Characteristic 23)	Globe
Bulb: Basic colour of dry skin (Characteristic 24)	Light Red
Bulb: Degree of splitting into bulblets (with dry skin around	Absent
each bulblet) (Characteristic 32)	

## B. Distinct characteristics of candidate variety:

Bhima Light Red (DOGR-571-LR): It has distinguishing characters like foliage attitude erect, foliage waxiness absent, thin bulb thickness, strong bulb firmness, bulb colour of epidermis of fleshy scale is reddish, degree of bulb splitting into buldlets is absent.

#### C. Distinct characteristics of reference varieties:

Arka Nikethan: It has distinguishing characters like foliage attitude semi erect, foliage waxiness present, medium bulb thickness, medium bulb firmness, bulb colour of epidermis of fleshy scale is purplish, degree of bulb splitting into buldlets is medium.

Bhima Kiran: It has distinguishing characters like foliage waxiness present, bulb colour of epidermis of fleshy scale is purplish.

D. Date	of commercialization of the variety	Not Commercial	ized			
E. Agronomic and commercial attributes						
S.no.	o. Agronomic attributes Details					
1.	Growth habit (determinate/indetermin	-				
2.	Days to flowering/anthesis(average)	-				
3.	Days to maturity (average)	110 - 120				
4.	Planting material/Seed material requir	8-10 kg/ha				
5.	Fertilizer requirement to attain potential yield and time of application					
	Organic (per ha or per plant)	-				
	Inorganic (per ha or per plant) 110:40:60:45 kg/ha NPK					
	Other fertilizers (per ha or per plant) 15 t/ha FYM					

6.	Spacing (cm) requirement to attain potential yield			
	Row to row	15cm		
	Plant to plant	10cm		
7.	Soil requirements to attain the potential yield	Loamy soil		
8.	Plant protection measures to attain the potential yield	-		
9.	Sowing window requirement to attain potential yield	October		
	(zone-wise)			
10.	Number of irrigations required to attain potential yield	8-10 days warm climate		
	(zone-wise)	10-15 days cool climate		
		(drip irrigation to avoid		
		disease outbreak)		
11.	The best growing season to attain the potential yield	Rabi		
12.	Name the cropping/climatic zone of India in which the	Zone VI		
	varietal/hybrid trials were conducted			
13.	Any other relevant information specific to the	-		
	variety/hybrid			
	Commercial attributes			
1.	Yield potential (average) per ha (q/ha)	-		
2.	Yield (average) (q/ha)	383.23 q/ha		

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi  $-110\,012$ .

**Passport data of the variety** : Bhima Dark Red (NRCRO-3/RGO-53)

**Applicant** : ICAR, New Delhi

**Address of the applicant**: Director, ICAR-DOGR, Pune 410505

**Nationality of applicant** : Indian

**Application details** 

a. Number : N1 AC2 14 985

b. Date of receipt : 25.04.2014

**Crop (taxonomical lineage)** : Onion (*Alium cepa* L.)

**Denomination**: Bhima Dark Red (NRCRO-3/RGO-53)

**Type of variety** : Extant

Classification of variety : Others (OPV)

Name of parental material : N 53

Name of reference varieties : Bhima Raj, L-28, Line 355

## Variety description:

- Harry Green-Prisary	
A. Group characteristics	Remarks (measured values/
	example varieties <i>etc.</i> )
Bulb: Diameter (Characteristic 5)	Medium
Bulb: General shape (in longitudinal section) (Characteristic 23)	Flat Globe
Bulb: Basic colour of dry skin (Characteristic 24)	Dark red
Bulb: Degree of splitting into bulblets (with dry skin around	Absent
each bulblet) (Characteristic 32)	

## **B.** Distinct characteristics of candidate variety:

Bhima Dark Red (NRCRO-3/RGO-53): It has distinguishing characters like time of maturity medium, foliage attitude semi erect, dark foliage intensity of green colour, thin bulb thickness of neck, dark red colour of dry skin, medium bulb firmness of flesh, purplish bulb colour of epidermis of fleshy skin, bulb degree of splitting into bulblets absent

## C. Distinct characteristics of reference varieties:

Bhima Raj: It has distinguishing characters like erect foliage attitude, medium foliage intensity of green colour, medium bulb thickness of neck, strong bulb firmness of flesh

L-28 (NHRDF red): It has distinguishing characters like erect foliage attitude, strong bulb firmness of flesh, reddish bulb colour of epidermis of fleshy skin, bulb degree of splitting into bulblets medium

<b>D. Date of commercialization of the variety</b> Not commercialized					
E. Agronomic and commercial attributes					
S.no.	Agronomic attributes		Details		
1.	Growth habit (determinate/indeterminate/	ate)	-		
2.	Days to flowering/anthesis(average)		-		
3.	Days to maturity (average)		-		
4.	Planting material/Seed material require	ement	8-10 kg/ha		
5.	Fertilizer requirement to attain potential	al yield and time of ap	plication		
	Organic (per ha or per plant)		-		
	Inorganic (per ha or per plant)		100:50:50:50kg/ha NPKS		
	Other fertilizers (per ha or per plant)		-		
6.	Spacing (cm) requirement to attain por				
	Row to row		15 cm		
	Plant to plant		10 cm		
7.	Soil requirements to attain the potential	al yield	Loamy soil		
8.	Plant protection measures to attain the	potential yield	-		
9.	Sowing window requirement to attain potential yield (zonewise)		May to June		
10.	Number of irrigations required to a	attain potential yield	10-15 days as per soil		
	(zone-wise)		type		
11.	The best growing season to attain the potential yield		Kharif		
12.	Name the cropping/climatic zone of varietal/hybrid trials were conducted	India in which the	Zone II, V & VI		

13.	Any	other	relevant	information	specific	to	the	-
	variet	y/hybrid	l					
	Comr	nercial	attributes					
1.	Yield potential (average) per ha (q/ha)					Maximum up to 460.30		
						q/ha with average yield		
								221.22 q/ha

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

Passport data of the variety : CSV 32F

**Applicant** : ICAR, New Delhi

Address of the applicant : Director & Project Coordinator, ICAR-Indian Institute of

Millets Research, Rajendra Nagar, Hyderabad, Telangana-

500030

Nationality of applicant : Indian

**Application details** 

a. Number : E3 SB11 15 1429

b. Date of receipt : 21.07.2015

**Crop (taxonomical lineage)** : Sorghum (Sorghum bicolor L.)

**Denomination** : CSV 32F **Type of variety** : New

Classification of variety : Typical (Parental line)

Name of parental material : HC260 x B-35 (5-3-1-1)

Name of reference varieties : CSV 21 F, HC 308

Notification details : Number: 1228 (E), Dated: 07.05.2015

Remarks (measured values/
example varieties etc.)
Kharif
Medium
Long

Panicle: Shape (Characteristic 27)	Symmetrical
Caryopsis: Colour after threshing (Characteristic 33)	Yellow White

## **B.** Distinct characteristics of candidate variety:

CSV 32F: It has distinguishing characters like yellow green seedling anthocyanin colouration of coleoptile, medium time of panicle emergence, yellow green anthocyanin colouration of leaf sheath, long plant height, very long leaf blade, medium grain weight.

#### C. Distinct characteristics of reference varieties:

CSV 21 F: It has distinguishing characters like greyed purple seedling anthocyanin colouration of coleoptile, late time of panicle emergence, greyed purple anthocyanin colouration of leaf sheath, very long plant height, long leaf blade, very low grain weight

HC 308: It has distinguishing characters like greyed purple seedling anthocyanin colouration of coleoptile, late time of panicle emergence, greyed purple anthocyanin colouration of leaf sheath, very long plant height, long leaf blade, low grain weight

D. Da	D. Date of commercialization of the variety Not Commercialized					
E. Ag	E. Agronomic and commercial attributes					
S.no.	Agronomic attributes	Details				
1.	Growth habit (determinate/indeterminate)	-				
2.	Days to flowering/anthesis (average)	71				
3.	Days to physiological maturity (average)	115-118				
4.	Seed rate per ha	8 kg/ha				
5.	Recommended nutrition/ha schedule to attain potential	yield and time of application				
	Organic (per ha)	3-4 tonnes FYM				
	Inorganic (per ha)	For light soil & low rainfall areas; 24:12:12 kg/ha NPK				
		For medium-deep soils &				
		moderate to high rainfall areas;				
		32:16:16 kg/ha NPK				
	Other fertilizers (per ha)	-				
6.	Spacing (cm) requirement to attain potential yield					
	Row to row	45 cm				
	Plant to plant	12-15 cm				
7.	Soil requirements to attain the potential yield	-				
8.	Plant protection measures to attain the potential yield	-				
9.	Sowing window requirement to attain potential yield	3 <sup>rd</sup> week of June to 1 <sup>st</sup> week of				
	(zone-wise)	July				
10.	Number of irrigations required to attain potential yield	4				
11.	The best growing season to attain the potential yield	Kharif				
	(zone-wise)					
12.	Name the cropping/climatic zone of India in which the	Zone-II (Maharashtra, Tamil				
	varietal/hybrid trials were conducted	Nadu)				
13.	Intercultural operations (including training, pruning & nipping)	Weeding at 20-25 days after sowing				
14.	Any other relevant information specific to the					

	variety/hybrid	
	Commercial attributes	
1.	Zone- wise yield potential (average) per ha (q/ha) (if	Zone II (Dry fodder) = 161 q/ha
	applicable)	Zone II (See yield) = 17 q/ha
2.	Seed yield q/ha (average)	Grain yield = 11-13 q/ha
		Fodder yield = 74-76 q/ha

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

Passport data of the variety : AKSV 181 (PDKV Kalyani)

**Applicant** : Dr. P.D.K.V., Akola

Address of the applicant : Dr. R.B. Ghorade, Senior Research Scientist, Sorghum

Research Unit, Dr. P.D.K.V., Akola-444104

**Nationality of applicant** : Indian

Application details

a. Number : N3 SB6 18 523

b. Date of receipt : 17.05.2018

Crop (taxonomical lineage): Sorghum (Sorghum bicolor L.)Denomination: AKSV 181 (PDKV Kalyani)

**Type of variety** : New

Classification of variety : Typical variety

Name of parental material : (SU56 x SPV775) x (SPV1033 x GMPR 4)

Name of reference varieties : CSV 20

Notification details : Number: 1007 (E), Dated: 30.03.2017

A. Group characteristics	Remarks (measured values/example varieties etc.)
Kharif or rabi adaptation	
Plant: Time of panicle emergence (50% of the plants with complete panicle emergence) (Characteristic 4)	Medium
Plant: Total height at maturity) (Characteristic 18)	Long
Panicle: Shape (Characteristic 27)	Symmetrical
Caryopsis: Colour after threshing (Characteristic 33)	Yellow White

## B. Distinct characteristics of candidate variety:

AKSV 181 (PDKV Kalyani): It has distinguishing characters like seedling anthocyanin colour of coleoptile is yellow green, leaf sheath anthocyanin colouration is yellow green, mid-rib colour of leaf is yellow green, stigma anthocyanin colouration-absent, medium stigma length, glume colour-greyed orange, neck of panicle visible above leaf sheath is medium, glume length-short, grain texture of endosperm is farinaceous, grain is non lustrous, grain shape is circular, grain size medium

## C. Distinct characteristics of reference variety

CSV 20: It has distinguishing characters like short neck of panicle visible above leaf sheath, medium glume length, stigma anthocyanin colouration present

mediu	medium glume length, stigma anthocyanin colouration present						
D. Da	te of commercialization of the variety	12.06.2017					
E. Ag	E. Agronomic and commercial attributes						
S.no.	Agronomic attributes		Details				
1.	Growth habit (determinate/indeterminate	e)	-				
2.	Days to flowering/anthesis (average)		71				
3.	Days to physiological maturity (average)	)	115-117				
4.	Seed rate per ha		8 kg/ha				
5.	Recommended nutrition/ha schedule to a	attain potential yie	d and time of application				
	Organic (per ha)		-				
	Inorganic (per ha)		80:40:40 kg/ha NPK				
	Other fertilizers (per ha)		-				
6.	Spacing (cms) requirement to attain pote	ential yield					
	Row to row		45 cm				
	Plant to plant		15 cm				
7.	Soil requirements to attain the potential	Medium to deep, well drained soil					
8.	Plant protection measures to attain the pe	otential yield	-				
9.	Sowing window requirement to attain po (zone-wise)	15 <sup>th</sup> June-10 <sup>th</sup> July					
10.	Number of irrigations required to attain	potential yield	Protective irrigation				
11.	The best growing season to attain the (zone-wise)	e potential yield	Kharif				
12.	Name the cropping/climatic zone of In varietal/hybrid trials were conducted	dia in which the	Kharif area of Maharashtra				
13.	Intercultural operations (including train nipping)	One ploughing & 2-3 hoeing					
14.	Any other relevant information s variety/hybrid	-					
	Commercial attributes						
1.	Zone -wise yield potential (average) per (if applicable)	-					
2.	Seed yield/ha (average)	Grain yield= 35.38 q/ha Fodder yield= 150-155 q/ha					

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

Passport data of the variety : Palamuru Jonna (SPV-2122)

**Applicant** : ICAR, New Delhi

Address of the applicant : All India Co-ordinated Sorghum Improvement Project

(AICSIP), Regional Agri. Research Station, PJTSAU,

Palem-509215Telangana

Nationality of applicant : Indian

Application details :

a. Number : N1 SB11 16 286

b. Date of receipt  $: \overline{06.04.2016}$ 

**Crop (taxonomical lineage)** : Sorghum (*Sorghum bicolor* L.) **Denomination** : Palamuru Jonna (SPV-2122)

**Type of variety** : New

Classification of variety : Typical variety
Name of parental material : SPV462 x SPV1329
Name of reference varieties : CSV20, CSV23

Notification details : Number: 2680 (E), Dated: 01.10.2015

#### Variety description:

A. Group characteristics	Remarks (measured values/ example varieties etc.)
Kharif or rabi adaptation	Kharif
Plant: Time of panicle emergence (50% of the plants with	Medium
complete panicle emergence) (Characteristic 4)	
Plant: Total height at maturity) (Characteristic 18)	Medium
Panicle: Shape (Characteristic27)	Symmetric
Caryopsis: Colour after threshing (Characteristic 33)	Yellow white

## B. Distinct characteristics of candidate variety:

Palamuru Jonna (SPV-2122):It has distinguishing characters like medium plant height at maturity, stigma yellow colouration-present, broad leaf width of blade, short glume length, stigma anthocyanin colouration-present, panicle length without peduncle is medium, ear head

compactness-semi compact, panicle shape symmetric, freely threshable, caryopsis colour after threshing-yellow white, grain shape-elleptic, grain is non lustrous

## C. Distinct characteristics of reference varieties:

CSV20: It has distinguishing characters like long plant height at maturity, stigma yellow colouration absent, very broad leaf width of blade, medium glume length.

CSV23: It has distinguishing characters like long plant height at maturity, grain is lustrous

#### D. Date of commercialization of the variety Not Commercialized E. Agronomic and commercial attributes S.no. **Agronomic attributes Details** Growth habit (determinate/indeterminate) 1. 2. Days to flowering/anthesis (average) 60-65 3. Days to physiological maturity (average) 106-110 4. Seed rate per ha 8 kg/ha 5. Recommended nutrition/ha schedule to attain potential yield and time of application Organic (per ha) Inorganic (per ha) 80:40:40 kg/ha NPK Other fertilizers (per ha) Spacing (cm) requirement to attain potential yield 6. Row to row 45 cm Plant to plant 15 cm 7. Soil requirements to attain the potential yield 8. Plant protection measures to attain the potential yield 3<sup>rd</sup> week of June to 1<sup>st</sup> week 9 Sowing window requirement to attain potential yield (zone-wise) of July 10. Number of irrigations required to attain potential yield 2 The best growing season to attain the potential yield 11. Kharif (zone-wise) 12. Name the cropping/climatic zone of India in which the Zone 1of AICSIP varietal/hybrid trials were conducted 13. Intercultural operations (including training, pruning & nipping) information 14. Any other relevant specific the variety/hybrid **Commercial attributes** Zone -wise yield potential (average) per ha (q/ha) 1. Grain yield: 33.76q/ha Fodder yield: 144.34q/ha (if applicable) Seed yield/ha (average) Grain yield = 30-35 g/ha 2.

18. Application No.	E4	TA60	18	705	filed	on	29.11.2013	3 by	Indian
Council of Agricult	ural Rese	arch, Direc	tor, IC	AR-Indi	an Ins	titut	e of Whea	t and	Barley
Research, Karnal-132001 for an extant plant variety notified under the Seed Act, 1966 of crop									
Wheat (Triticum aestivum L.) having denomination DBW 173, has been accepted and given									
registration numberNAonNA									

Fodder yield= 120-150 g/ha

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

Passport data of the variety : DBW 173

**Applicant** : ICAR, New Delhi

Address of the applicant : ICAR-Indian Institute of Wheat and Barley Research,

Karnal (Haryana)-132001

Nationality of applicant : Indian

Application details

a. Number : E4 TA60 18 705

b. Date of receipt : 29.11.2018

**Crop (taxonomical lineage)** : Wheat (*Triticum aestivum* L.)

**Denomination** : DBW 173 **Type of variety** : Extant

Classification of variety : Typical variety

Name of parental material : KAUZ/AA//KAUZ/PBW602

Name of reference varieties : DBW90, WH1021

Notification details : Number: 1379 (E), Dated: 27.03.2018

## Variety description:

A. Group characteristics	Remarks (measured values/ example varieties etc.)
Flag leaf: Anthocynin coloration of auricle	Absent
(Characteristic 4)	
Time of ear emergence (Characteristic 7)	Medium
Plant length (Characteristic 14)	Medium
Awn or scurs: Presence (Characteristic 18)	Present
Outer glume: Pubescence (Characteristic 23)	Absent
Ear: Colour (Characteristic 24)	White
Season type (Characteristic 37)	Spring
Grain hardness (Characteristic 38)	Hard

#### **B.** Distinct characteristics of candidate variety:

DBW 173: It has distinguishing characters like coleoptile anthocyanin colouration-absent, semi-erect plant growth habit, dark green foliage colour, semi-erect plant flag leaf attitude, medium time of emergence, long glume beake length, very strong flag leaf waxiness of sheath, medium plant length, medium ear density, awns present spreading awn attitude, white ear colour, amber grain colour, oblong grain shape and hard grain hardness.

#### C. Distinct characteristics of reference varieties:

DBW90: It has distinguishing characters like green foliage colour, drooping plant flag leaf attitude, early time of emergence, strong flag leaf waxiness of sheath, medium awn length,

medium awn attitude, semi hard grain.

WH1021: It has distinguishing characters like erect plant growth habit, green foliage colour, long plant length, ovate grain shape and semi hard grain.

D. Date of commercialization of the variety	Not Commercialized
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# E. Agronomic and commercial attributes

S.no.	Agronomic attributes	Details
1.	Growth habit (determinate/indeterminate)	-
2.	Days to flowering/anthesis (average)	81
3.	Days to physiological maturity (average)	122
4.	Seed rate per ha	125 kg/ha
5.	Recommended nutrition/ha schedule to attain potential yield	and time of application
	Organic (per ha)	-
	Inorganic (per ha)	120:60:40 kg/ha NPK
	Other fertilizers (per ha)	-
6.	Spacing (cms) requirement to attain potential yield	
	Row to row	-
	Plant to plant	-
7.	Soil requirements to attain the potential yield	-
8.	Plant protection measures to attain the potential yield	-
9.	Sowing window requirement to attain potential yield	10 <sup>th</sup> -25 <sup>th</sup> December
	(zone-wise)	
10.	Number of irrigations required to attain potential yield	3-5
11.	The best growing season to attain the potential yield (zone-	Spring
	wise)	
12.	Name the cropping/climatic zone of India in which the	North Western Plain Zone
	varietal/hybrid trials were conducted	
13.	Intercultural operations (including training, pruning &	-
	nipping)	
14.	Any other relevant information specific to the	-
	variety/hybrid	
	Commercial attributes	
1.	Zone-wise yield potential (average) per ha (q/ha)	30.9-57q/ha
	(if applicable)	
2.	Seed yield/ha (average)	47.2 q/ha

19. Application No.	E4	AC6	14	1909	filed on 15.09.2014 by Indian Council
of Agricultural Re	esearch,	Director,	ICAR-	Directo	orate of Onion and Garlic Research,
Rajgurunagar, Dist	t: Pune-4	10505, Ma	harasht	t <b>ra</b> for a	an extant plant variety notified under the
Seed Act, 1966 of	crop On	ion (Allium	п сера 🛚	L.) havi	ing denomination BHIMA SHUBHRA
(NRCWO-4/W-009	) has been	accepted a	and give	n registi	ration numberNAon
NA	·				

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in --NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

Passport data of the variety : BHIMA SHUBHRA (NRCWO-4/W-009)

**Applicant** : Indian Council of Agricultural Research, New Delhi

**Address of the applicant**: Director, ICAR-Directorate of Onion and Garlic Research,

Rajguru Nagar, Pune, Maharashtra-410505

Nationality of applicant : Indian

**Application details** 

a. Number : E4 AC6 14 1909

b. Date of receipt : 15.09.2014

**Crop (taxonomical lineage)** : Onion (*Allium cepa* L.)

**Denomination** : BHIMA SHUBHRA (NRCWO-4/W-009)

**Type of variety** : Extant

**Classification of variety** : Typical (OPV)

Name of parental material : Segregating bulbs from red onion germplam (W-009) from

Yeola, Nashik

Name of reference varieties : Pusa White Round, Pusa White Flat

Notification details : Number: 2277 (E), Dated: 17.08.2015

## Variety description:

A. Group characteristics	Remarks (measured values/
	example varieties <i>etc</i> .)
Bulb: Diameter (Characteristic 5)	Medium
Bulb: General shape (in longitudinal section) (Characteristic 23)	Globe
Bulb: Basic colour of dry skin (Characteristic 24)	White
Bulb: Degree of splitting into bulblets (with dry skin around	Absent
each bulblet) (Characteristic 32)	

#### B. Distinct characteristics of candidate variety:

BHIMA SHUBHRA (NRCWO-4/W-009): It has distinguishing characters like medium number of leaves per pseudo-stem, medium bulb time of maturity, semi erect foliage attitude, small pseudo-stem diameter, globe general shape of bulb, thin bulb thickness, single bulb predominant number of axes, degree of splitting into bulblets is absent, basic colour of dry skin is white, foliage intensity of green colour is medium.

## C. Distinct characteristics of reference varieties:

Pusa White Round: It has distinguishing characters like late bulb maturity, flat globe general shape of bulb, degree of splitting into bulblets is medium, foliage intensity of green colour is light

Pusa White Flat: It has distinguishing characters like few number of leaves per pseudo-stem, late bulb maturity, flat globe general shape of bulb, multiple bulb predominant number of axes, degree of splitting into bulblets is medium, foliage intensity of green colour is dark

**D. Date of commercialization of the variety** | 17.05.2013

E. Agronomic and commercial attributes					
S.no.	Agronomic attributes	Details			
1.	Growth habit (determinate/indeterminate)	-			
2.	Days to flowering/anthesis(average)	-			
3.	Days to maturity (average)	110-115			
4.	Planting material/seed material requirement	8 kg/ha			
5.	Fertilizer requirement to attain potential yield and time	e of application			
	Organic (per ha or per plant)	5kg Trichoderma + 1q FYM			
	Inorganic (per ha or per plant)	100:50:50 kg/ha NPK			
	Other fertilizers (per ha or per plant)	-			
6.	Spacing (cm) requirement to attain potential yield				
	Row to row	25 cm			
	Plant to plant	10 cm			
7.	Soil requirements to attain the potential yield	Loamy			
8.	Plant protection measures to attain the potential yield	-			
9.	Sowing window requirement to attain potential yield	-			
	(zone-wise)				
10.	Number of irrigations required to attain potential	8-10 days for warm weather			
	yield (zone-wise)	10-15 days for cool weather			
11.	The best growing season to attain the potential yield	Kharif & late Kharif			
12.	Name the cropping/climatic zone of India in which	Zone IV, V, VI and Late			
	the varietal/hybrid trials were conducted	Kharif zone of Maharashtra			
13.	Any other relevant information specific to the	Ist white onion variety			
	variety/hybrid				
	Commercial attributes				
1.	Yield potential (average) per ha (q/ha)	Zone IV= 193.37 q/ha			
		Zone V= 166.78 q/ha			
		Zone $VI = 212.77 \text{ q/ha}$			
2.	Yield of fruits per plant (average)	224.18 q/ha			
		l.			

The convention application no. -----NA-----, in respect of the said variety has been filed on -----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

**Passport data of the variety** : DHRS 1

**Applicant** : University of Agricultural Sciences, Dharwad

Address of the applicant : Dr. B. S. Janagoudar, Director of Research, University of

Agricultural Sciences, Dharwad-580005, Karnataka

**Nationality of applicant** : Indian

**Application details** 

a. Number E9 EL23 16 501

b. Date of receipt : 17.05.2016

**Crop** (taxonomical lineage) : Finger Millet (*Eleusine coracana* (L.) *Gaertn*.)

**Denomination** : DHRS 1 Type of variety : Extant

**Classification of variety** : Typical variety Name of parental material : GPU 26 x Sel 11

**Notification details** : Number: 2326 (E), Dated: 10.10.2011

## Variety description:

A. Group characteristics	Remarks (measured values/example		
	varieties etc.)		
Season	Kharif		
Plant: Pigmentation at leaf juncture (Characteristic 2)	Medium purple pigmentation		
Days to 50% flowering (Characteristic 4)	65		
Ear: Shape (Characteristic 10)	-		
Finger: Branching (Characteristic 11)	7-8		
Seed: Colour (Characteristic 23)	Copper brown		

## **B.** Distinct characteristics of candidate variety:

DHRS 1: It has distinguishing characters like plant pigmentation at leaf juncture, medium days to 50 % flowering, long ear head length, tall plant height at maturity.

## C. Distinct characteristics of reference variety:

HMT 100-01: Decumbent plant growth habit, high finger number on main ear, long finger length, round seed shape, wide finger width

D. Date o	f commercialization of the variety	10.10.2011
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## E. Agronomic and commercial attributes

S.no.	Agronomic attributes	Details	
1.	Growth habit (determinate/indeterminate)	-	
2.	Days to flowering/anthesis (average)	65	
3.	Days to physiological maturity (average)	110	
4.	Seed rate per ha	12 kg/ha	
5.	Recommended nutrition/ha schedule to attain potential yield and time of application		
	Organic (per ha)	-	
	Inorganic (per ha)	As per recommendation	
	Other fertilizers (per ha)	-	
6.	Spacing (cm) requirement to attain potential yield		
	Row to row	30 cm	
	Plant to plant	5 cm	
7.	Soil requirements to attain the potential yield	-	

8.	Plant protection measures to attain the potential yield	-
9.	Sowing window requirement to attain potential	1 <sup>st</sup> fortnight of June - 2 <sup>nd</sup>
	yield (zone-wise)	fortnight of July
10.	Number of irrigations required to attain potential	-
	yield	
11.	The best growing season to attain the potential yield	Kharif
	(zone-wise)	
12.	Name the cropping/climatic zone of India in which	Northern Karnataka
	the varietal/hybrid trials were conducted	(Zone III, Zone VIII)
13.	Intercultural operations (including training, pruning	-
	& nipping)	
14.	Any other relevant information specific to the	Drought tolerant & resistant to
	variety/hybrid	blast disease
	Commercial attributes	
1.	Zone wise yield potential (average) per ha (q/ha) (if	Zone III (Grain yield) = 29.41
	applicable)	q/ha
		(Fodder yield) = $3.77 \text{ q/ha}$
		Zone VIII (Grain yield) = 21.67
2.	Seed yield/ha (average)	26.94 q/ha

21. Application No. | N16 464 **BB16** 10 filed on 27.12.2010 by Nuziveedu Seeds Ltd., NSL ICON, No. 8-2-684/2/A, Plot No. 1 to 4, 4th Floor, Opp. ICICI Bank, Road No. 12, Banjara Hills, Hyderabad-500034, Telangana for a New Variety of crop Cauliflower (Brassica oleracea L.var. botrytis) having denomination NCFD-60, the specification includes its drawing and or photograph(s) of which are given below, has been accepted and given registration number -----NA ------ NA ------

The convention application no. ----NA----, in respect of the said variety has been filed on ----NA-----. in ---NA----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

Passport data of the variety : NCFD-60

**Applicant** : Nuziveedu Seeds Ltd.

Address of the applicant : NSL ICON, No. 8-2-684/2/A, Plot No. 1 to 4, 4th Floor, Opp.

ICICI Bank, Road No. 12, Banjara Hills, Hyderabad-

500034, Telangana

Nationality of applicant **Application details** 

a. Number N16 **BB16** 10 464

: Indian

: 27.12.2010 b. Date of receipt

c. Date of acceptance : --

**Crop** (taxonomical lineage) : Cauliflower (*Brassica oleracea* L.var. *botrytis*)

**Denomination** : NCFD-60 **Type of variety** : New

Classification of variety : Other (Parental Line)

**Previously proposed** : Not applicable

**Denomination** 

Name of parental material : NCFD-60 (PCFD-117)

**Source of parental material** : Own germplasm

Name of reference varieties : Kashi Kuwari, PUSA MEGHNA and PUSA KARTIK

**SANKAR** 

## Variety description:

A. Group characteristics	Remarks (measured values/
	example varieties <i>etc</i> .)
Seedling: Anthocyanin colouration of hypocotyl	Absent
(Characteristic 1)	
Curd: Covering by inner leaves (Characteristic 16)	Not covered
Curd: Shape in longitudinal section (Characteristic 19)	Broad elliptic
Curd: Maturity group (Characteristic 26)	Early

## **B.** Distinct characteristics of candidate variety:

NCFD-60 has distinguishing character as narrow elliptic leaf shape with compact curd.

## C. Distinct characterisitics of reference varieties:

Kashi Kuwari has distinguishing character as broad elliptic leaf shape, loose curd compactness.

PUSA MEGHNA has distinguishing character as broad elliptic leaf shape, medium curd compactness.

PUSA KARTIK SANKAR has distinguishing character as broad elliptic leaf shape with medium curd compactness.

**D. Date of commercialization of the variety** 23.01.2010

## E. Agronomic and commercial attributes

S.No.	Agronomic attributes	Details
1	Growth habit	Semi Erect
	(determinate/indeterminate)	
2	Days to flowering/anthesis (average)	55 days after planting
3	Days to maturity (average)	110 days after planting
4	Seeds rate/requirement per ha	400 g/ha
5	Fertilizer requirement to attain potential yield and time of application	
	Organic (per ha or per plant)	10 ton
	Inorganic (per ha)	200 : 125 : 150 NPK kg/ha
	Other fertilizer (per ha or per plant)	-
6	Spacing (cm) requirement to attain potential yield	
	Row to row	60 cm
	Plant to plant	30 cm
7	Soil requirement to attain potential	Sandy loam

	yield		
8	Plant protection measure to attain potential yield	Damping Off: Drench copper oxychloride of Water).  Downey Mildew: Spray or mancozeb (2g/L) or (1g/L).  Alternaria Blight: Spray oxychloride (2g/L).  Black Rot: Treats seed 1000 ppm (1g/L) of seminutes.  Diamond Back Moths kernel extract (4%) or pethuringensis at 15, 25 planting.  Aphids: spray monocroe (1.5 ml/L) or oxydemate Leaf Webber / Semonocrotophos or cyper Boron Deficiency: Apkg/ha at the time of final	y copper oxychloride r metalaxylmancozeb r mancozeb or copper ds before sowing in streptocycline for 30 c: Spray neem seed reparation of Bacillus and 35 days after tophos or dimethoate on methyl (2 ml/L). tem Borer: Spray rmethrin (1 ml/L). ply borax @ 10-15
9	Sowing window requirement to attain potential yield	15 <sup>th</sup> -30 <sup>th</sup> June	1 1
10	Number of irrigation required to attain potential yield	As per requirement	
11	The best growing season to attain potential yield	Kharif	
12	Name the cropping/climate zone of India in which the variety/hybrid trails were conducted	Semi arid and humid su	b-tropical
13	Any other relevant information specific to the variety/hybrid	NA	
	Commercial attribute		
1	Yield potential (average) per ha (q/ha)		180
2	Yield of fruit per plant (average)		500 gm
3	Size of the fruit (average)		7.0 x 12.5 cm
4	Weight of each fruit (average)		500 gm
5	Plant height (average)		90 cm
6	Reaction against major diseases and pests		Susceptible
7	Reaction to major abiotic stresses like drought, heat, salinity <i>etc</i> .		Susceptible
8	Storage/keeping quality after the harvest	Poor	
9	Any other measures to achieve the poten	NA	

22. Application No. N24 LL24 10 490 filed on 28.12.2010 by Nuziveedu Seeds Ltd, NSL ICON, No.8-2-684/2/A, Plot No. 1 to 4, 4th Floor, Opp. ICICI Bank, Road No. 12,

**Banjara Hills, Hyderabad-500034, Telangana** for a New Variety of crop **Tomato** (*Solanum lycopersicum* L.) having denomination **BA-1559**, has been accepted and given registration number -----NA ------- NA -------

The convention application no. ----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

**Passport data of the variety** : BA-1559

**Applicant** : Nuziveedu Seeds Ltd.

Address of the applicant : NSL ICON, No.8-2-684/2/A, Plot No. 1 to 4, 4<sup>th</sup> floor, Opp.

ICICI Bank, Road No. 12, Banjara Hills, Hyderabad-

500034, Telangana.

Nationality of applicant

**Application details** 

a. Number : N24 LL24 10 490 b. Date of receipt : 28.12.2010

: Indian

c. Date of acceptance : --

**Crop** (taxonomical lineage) : Tomato (Solanum lycopersicum L.)

**Denomination** : BA-1559 **Type of variety** : New

Classification of variety : Other (Parental Line)

**Previously proposed** : Not applicable

**Denomination** 

Name of parental material : NTM-01 x D-350 Source of parental material : Own germplasm

Name of reference varieties : Kashi Sharad, Arka alok, Arka Vikas, Vybhav, and Laxmi

#### Variety description:

A. Group characteristics	Remarks (measured values/example varieties etc.)
Plant: Growth type (Characteristic 3)	Determinate
Leaf: Serration (Characteristic 12)	Highly serrated
Fruit: Green shoulder (before maturity)	Present
(Characteristic 29)	
Fruit: Shape in longitudinal section	Slightly flattened
(Characteristic 33)	
Fruit: Colour at maturity (Characteristic 43)	Red
1	

#### **B.** Distinct characteristics of candidate variety:

BA-1559 has distinguishing character as present fruit green shoulder (before maturity).

## C. Distinct characteristics reference varieties:

Kashi Sharad has distinguishing character as absence of fruit green shoulder (before maturity). Arka alok has distinguishing character as absence of fruit green shoulder (before maturity).

Arka Vikas has distinguishing character as absence of fruit green shoulder (before maturity).

Vybhav has distinguishing character as absence of fruit green shoulder (before maturity).

Laxmi has distinguishing character as absence of fruit green shoulder (before maturity).

D. Date of commercialization of the variety

Not commercialized.

# E. Agronomic and commercial attributes

S.No.	Agronomic attributes	Details		
1	Growth habit	Determinate		
	(determinate/indeterminate)			
2	Days to flowering/anthesis	32		
	(average)			
3	Days to maturity (average)	65-70		
4	Planting material / seeds material requirement	18500 seedlings/	150g seeds/ha	
5	Fertilizer requirement to			
	attain potential and time of application			
	Organic (per hactor or per plant)	6-8 ton/ha		
	Inorganic (per ha)	80:100:100 NPK	kg/ha	
	Other fertilizer (per hactor or per plant)	20 kg CAN/ha		
6	Spacing (cm) requirement to attain potential yield			
	Row to row	90-120 cm		
	Plant to plant	60-75 cm		
7	Soil requirement to attain potential yield	Sandy loam		
8	Plant protection measure to	Insects Pests	Agrochemical and dose	
	attain potential yield	Aphids/Jassids	Confidor/Actara/Monocrotophos	
			0.5ml/0.3ml/1.5ml per L	
		Thrips	Metasystox/Regent/Monocrotophos	
			3ml/2ml/2ml per L	
		Mites	Metasystox/Dicofol/vertimec/omits	
			3ml/4ml/0.15ml/2ml per L	
		Leaf miner	Hostathion mix neem oil the spray 3 ml per L	
		Borers/fruit	Chlorophyriphos/Quinalphos 2ml/2ml	
		flies	per L	
		Disease	Fungicide and dose	
		Stem	Blitox 2 grm/lt for drenching	
		rot/canker		
		Early blight	Indofil-M-45/	
			Kavach/RIDOMIL/Antracol 2 g per L	
		Powdery	Thiovit/cumulus/karathane/contaf/salfer	

		mildew	2-3 g/L
		Leaf curl virus	Confidor 0.3ml per L to prevent vector
		(Vector-White	Confidor 0.5mi per L to prevent vector
		Flies)	
		TOSPO Virus	Metasystox/Regent/Monocrotophos
		(Vector-	3ml/2ml per L to prevent vector
		Thrips)	Jiii/2iii/2iii pei L to pievent vector
9	Sowing window	Aug-Oct	
	requirement to attain	8	
	potential yield		
10	Number of irrigation	4-6 (Based on soi	l type and temperature)
	required to attain potential		
	yield		
11	The best growing season to	Post <i>Kharif</i> /rabi	
	attain potential yield		
12	Name the cropping/climate		& VII (Varanasi, Sonepat, Pune &
	zone of India in which the	Kolkata)	
	varietal/hybrid trail were		
	conducted		
13	Any other relevant TY virus tolerant		
	information specific to the		
	variety/hybrid		
	Commercial attribute		270 100
1	Yield potential (average) per		350-400
2	Yield of fruit per plant (avera	ge)	5-6 kg
3	Size of the fruit (average)		
4	Weight of each fruit (average)	90	
5	Plant height (AM) (average)	120-140 cm	
6	Reaction against major diseas	Tolerance against TY virus/white fly	
7	Reaction against major at	xe No	
	drought, heat, salinity etc	0.10.1	
8	Storage/keeping quality after	8-12 days	
9	Any other measures to achiev	e the potential yiel	d No

The convention application no. -----NA-----, in respect of the said variety has been filed on -----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

**Passport data of the variety** : B 2037

**Applicant** : Maharashtra Hybrid Seeds Company Limited

: Indian

**Address of the applicant**: Resham Bhavan, 4<sup>th</sup> floor, 78, Veer Nariman Road,

Mumbai-400020, Maharashtra.

Nationality of applicant

**Application details** 

a. Number : E68 PG4 07 18

b. Date of receipt : 21.05.2007

c. Date of acceptance : -

**Crop (taxonomical lineage)** : Pearl Millet (*Pennisetum glaucum* (L.) R.Br.)

**Denomination** : B 2037 **Type of variety** : Extant

**Classification of variety** : Other (Parental line)

**Previously proposed** : Not applicable

Denomination

Name of parental material : MS 863A x K82/7407-SB

**Source of parental material** : Own germplasm **Name of reference Varieties** : NANDI 8 and 86M52

## Variety description:

· united accompany	
A. Group characteristics	Remarks (measured values/example varieties etc.)
Plant: Time of spike emergence	Late
(Characteristic 3)	
Anther: Colour (Characteristic 8)	Nil
Spike: Shape (Characteristic 19)	Conical
Seed: Colour (Characteristic 24)	Grey
Seed: Shape (Characteristic 25)	Hexagonal

#### **B.** Distinct characteristics of candidate variety:

B 2037 has distinguishing character as green plant node pigmentation, conical spike shape.

#### C. Distinct characteristics of reference varieties:

NANDI 8 has distinguishing character as red plant node pigmentation, Lanceolate spike shape. 86M52 has distinguishing character as Lanceolate spike shape.

D. Date of commercialization of the variety	26.04.2003
E. Agronomic and commercial attributes	

## **Agronomic attributes of B 2037:**

- (1) Conical spike shape.
- (2) Grey colour seed with bold size.

## **Commercial attributes of B 2037:**

B 2037 is a pure line and is not sold in the market. It is used as parent in designing hybrid combination as it has very good combining ability, conical shape spike and bold size seed with grey colour. It is tolerant to downy mildew disease.

The convention application no. -----NA-----, in respect of the said variety has been filed on -----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

**Passport data of the variety** : S-EP-001

**Applicant** : Sungro Seeds Private Limited

Address of the applicant : 3<sup>rd</sup> Floor, Manish Chambers, B.N. Block, Local Shopping

Centre, Shalimar Bagh, New Delhi-110088

**Nationality of applicant** : Indian

**Application details** 

a. Number : E9 SM31 10 429

b. Date of receipt : 27.12.2010

c. Date of acceptance : --

**Crop (taxonomical lineage)** : Brinjal (Solanum melongena L.)

**Denomination** : S-EP-001 **Type of variety** : Extant (VCK)

Classification of variety : Other (Inbred parent line)

**Previously proposed** : Not applicable

denomination

Name of parental material : OB-310 x D-508 Source of parental material : Own germplasm

Name of reference varieties : Arka Kusumakar and DBL-329

A. Group characteristics	Remarks (measured values/example varieties etc.)
Fruit: Length (Characteristic 20)	Short
Fruit: Diameter (Characteristic 21)	Medium
Fruit: General shape (Characteristic 23)	Ovoid
Fruit: Colour of skin at commercial	Green
harvesting (Characteristic 27)	
Fruit: Stripes (Characteristic 30)	Absent
Fruit: Colour of calyx (Characteristic 35)	Green

## B. Distinct characteristics of candidate variety:

S-EP-001 has distinguishing character such as presence of seedling anthocyanin colouration of hypocotyls, presence of stem anthocyanin colouration, short fruit length and absence of fruit stripes.

## C. Distinct characteristics of reference varieties:

Arka Kusumakar has distinguishing character as absence of seedling anthocyanin colouration of hypocotyls, absence of stem anthocyanin colouration, medium fruit length and presence of fruit stripes.

DBL-329 has distinguishing character as absence of seedling anthocyanin colouration of hypocotyls, absence of stem anthocyanin colouration, medium fruit length and presence of fruit

D. Dat	te of commercialization of the varie	ety Not commercialized.		
E. Agı	E. Agronomic and commercial attributes			
S.No. Agronomic attributes Details		Details		
1.	Plant habit	Semi spreading		
2.	First harvesting (DAT)	-		
3.	Fruit shape	Ovoid		
4.	Fruit colour	Green		
5.	Average fruit weight (gram)	-		
6.	Fruit bearing habit	Mixed		
7.	Calvx	Green, non-spiny		

25. Application No.	E13	SM13	12	86	filed on 30.03.2012 by Nuziveedu Seeds Ltd.,
					Panchayat), Medchal-Mandal, Rangareddy-
Dist-501401, Telan	gana f	or an Ex	tant (V	VCK) V	ariety of crop Brinjal (Solanum melongena L.)
having denomination NBJ-18, has been accepted and given registration numberNA					
on	NA				

The convention application no. ----NA----, in respect of the said variety has been filed on ----NA-----, in ---NA----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.

Passport data of the variety : NBJ-18

**Applicant** : Nuziveedu Seeds Ltd.

Address of the applicant : Survey No. 69, Gundlapochampally (Vill. & Panchayat),

Medchal-Mandal, Rangareddy- Dist-501401, Telangana

**Nationality of applicant** 

**Application details** 

a. Number E13 SM13 12 86 : 30.03.2012

: Indian

b. Date of receipt

c. Date of acceptance

**Crop** (taxonomical lineage) : Brinjal (Solanum melongena L.)

**Denomination** : NBJ-18

Type of variety : Extant (VCK) **Classification of variety** : Other (Parental Line)

**Previously proposed** : Not applicable

**Denomination** 

Name of parental material : NBGP-22 x NEELAM Source of parental material : Own germplasm

Name of reference Varieties : TRB-9, Pusa Kranti and Pusa Purple Long

## Variety description:

A. Group characteristics	Remarks (measured values/example
	varieties etc.)
Fruit: Length (Characteristic 20)	Medium
Fruit: Diameter (Characteristic 21)	Medium
Fruit: General shape (Characteristic 23)	Club shaped
Fruit: Colour of skin at commercial harvesting	Purple
(Characteristic 27)	
Fruit: Stripes (Characteristic 30)	Absent
Fruit: Colour of calyx (Characteristic 35)	Green

## **B.** Distinct characteristics of candidate variety:

NBJ-18 has distinguishing character as absence of seedling anthocyanin colouration of hypocotyl.

#### C. Distinct characteristics of reference varieties:

TRB-9 has distinguishing character such as presence of seedling anthocyanin colouration of hypocotyl.

Pusa Kranti has distinguishing character such as presence of seedling anthocyanin colouration of hypocotyl.

Pusa Purple Long has distinguishing character such as presence of seedling anthocyanin colouration of hypocotyl.

# **D. Date of commercialization of the variety** 21.06.2006

#### E. Agronomic and commercial attributes S.No. **Agronomic attributes Details** 1 Suitability of the variety for Zone-7 (Semi arid lava plateau and central highlands). the area agro climatic zone 2 Selection of field/land Well drained clay loam & silty loam, pH is 5.5-6.5 preparation practices soil and 4-5 times ploughing. Treat with the fungicide Captan (@ 2 g/kg seed) 3 treatment-Seed rate of chemical/timing before sowing. Sowing time Kharif: May-June, Rabi: Oct-Nov, Summer:Jan-Feb 4 Seed rate/sowing method-line Seeds 200-250 g/ha, Sowing on bed (3-length, 1-wide sowing with row to row & and 0.15-meter height) and sow the seeds 1cm deep in plant to plant distance/direct rows and 5 cm apart, planting spacing 90 x 60 cm. sowing Fertilizer dose with timing Basal dose/hectare: Urea-250 kg, DAP-300 kg, MOP-6 300 kg. Top Dressing: Urea-250 kg (After 25 Days), A. Sulphate-375 kg (After 55 Days). 7 Weed control-chemicals with Hand weeding is used to control weeds. Pre-plant

	doses & timing	soil, incorporation of Fluchloralin (1-1.5 kg/ha) or Oxadiazon (0.5 kg/ha) and pre-planting surface
		spraying of Alachlor (1-1.5 kg/ha) controls the weeds of Brinjal successfully.
8	Diseases & pest control-chemicals with doses and timing	Damping off- Drench nursery beds with Captan 50% WP/Copper oxychloride 35%/ Chlorothalanil/ Metalaxyl 8% + Mancozeb 64% WP @ 2g/L. Bacterial Wilt: Seed treatment with Streptocycline (150 ppm) for 90 minutes, Fusarium Wilt: Soil drench with Captan @ 0.3%. Spray Dimlethoate (0.05%) or Monocrotophos (0.05%) at 10 days interval. Shoot & Fruit Borer: Prune drooping shoots; spary monocrotophos 36% SL/Dementon Methyl 25% EC/Dichlorvos 76% EC @ 400-500 ml/ha at 10-14 days interval. Aphids and Sucking Pests: Spray Dimethoate 40% EC @ 1.5 ml/litre Imidacloprid @ 0.5 ml/L. Epilachna bettle-Spray Parathion or Diazianon 10% WP & 20% EC @ 1 to 2 kg/ha,
9	Irrigation schedule	Carbaryl 50% WP @ 4 g/L or Quinolphos @ 2ml/L.  Total 25-30-light irrigation, 7-12 days interval in
10	Harvesting	winters and 4-5 days interval in summers.  The Brinjal fruits are harvested when they attain full
	That vesting	size and colour but before start of ripening. Tenderness, bright colour and glossy appearance of fruit is the optimum stage of harvesting of fruits.
11	Quality characteristics of the variety, if any	Plant semi-erect, fruit long, dark purple in colour, calayx green, fruit weight 80-90 g.
12	Expected yield of the variety	50-55 tons/ha
12	Commercial attributes	50 55 tolls/11tt
1.	Plant vigor	Vigorous
2.	Plant type/habit	Semi-erect
3.	Fruit shape	Cylindrical long
4.	Fruit colour	Dark purple
5.	Fruit size	80-90 g
6.	Maturity	60-65 days after transplanting
7.	Fruit length	18-20 cm
8.	Fruit width	3.5-4.0 cm
9.	Calyx colour	Green
10.	Flower colour	Purple
11.	Avg. Yield (per ha)	50-55 tons/ha

26. Application No. E43 GH20 8 246 filed on 02.04.2008 by Maharashtra Hybrid Seeds Company Limited, Resham Bhavan, 4th Floor, 78, Veer Nariman Road, Mumbai-400020 for New variety of crop Tetraploid cotton (Gossypium hirsutum L.) having denomination

C 5715 has been accepted and given registration number -----NA -------NA -------NA -------

The convention application no. ----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi – 110 012.

**Passport data of the variety** : C 5715

**Applicant** : Maharashtra Hybrid Seeds Company Limited

Address of the applicant : Resham Bhavan, 4th Floor, 78, Veer Nariman Road,

Mumbai-400020

**Nationality of applicant** : Indian

**Application details** 

**a**. Number : E43 GH20 8 246

**b**. Date of receipt : 02.04.2008

**c**. Date of acceptance : --

**Crop** (**Taxonomical lineage**) : Tetraploid cotton (*Gossypium hirsutum* L.)

Denomination: C 5715Type of variety: NewClassification of variety: Transgenic

**Previously proposed** 

**denomination** : Not applicable

Name of parental material : Parent 1: Non BG-II version of C 5706, Parent 2: C 5175

**BG-II** 

**Source of parental material** : Own germplasm Name of reference varieties : NH 545, G. Cot 18

A. Group characteristics Re			narks (measured values/example varieties etc.)				
Leaf: Shape (Characteristic 8) Pa			almate				
Flower	Petal colour (Characteristic 15)	Yell	ow				
Flower	Pollen colour (Characteristic 19)	Crea	am				
	nape (longitudinal section)	Ova	te				
Fibre: Length (Characteristic 33) Lo			Long				
B. Distinct characteristics of candidate variety:			y:				
C 5715	has distinguishing character as Bol	l: Pro	minence of tip: Blunt				
	C. Distinct characteristics of reference variety: NH 545 and G. Cot 18 has distinguishing character as Boll: Prominence of tip: Pointed						
D. Date	D. Date of commercialization of the variety 30.04.2013						
E. Agronomic and commercial attributes		S					
S.No.	Agronomic attributes		Details				
1.	Maturity duration		160-170 days (Medium late maturity)				

2.	Boll shape	ovate
3.	Boll size	medium $(4.5 - 5.0g)$ ,
4.	Boll opening	open
5.	Fiber length	28.5-29 mm
6.	Ginning outturn (%)	35.0-36.0
7.	Boll opening	fluffy
8.	Kapas retention	good
9.	Yield potential	1000-1400 kg/ha

27. Application No. N42 GH19 8 245 filed on 02.04.2008 by Maharashtra Hybrid Seeds Company Limited, Resham Bhavan, 4<sup>th</sup> Floor, 78, Veer Nariman Road, Mumbai-400020 for New variety of crop Tetraploid Cotton (Gossypium hirsutum L.) having denomination C 5714 has been accepted and given registration number -----NA --------

The convention application no. -----NA-----, in respect of the said variety has been filed on -----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi  $-110\,012$ .

**Passport data of the variety** : C 5714

**Applicant** : Maharashtra Hybrid Seeds Company Limited

: Indian

Address of the applicant : Resham Bhavan, 4<sup>th</sup> Floor, 78, Veer Nariman Road,

Mumbai-400020

Nationality of applicant

**Application details** 

**a.** Number : N42 GH19 8 245

**b**. Date of receipt : 02.04.2008

c. Date of acceptance : --

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : C 5714 **Type of variety** : New

Classification of variety : Inbred parent line, Transgenic

**Previously proposed** 

**denomination** : Not applicable

Name of parental material : Parent 1: Non BG-II version of C 5714, Parent 2: C 5175

**BG-II** 

**Source of parental material** : Own germplasm **Name of reference varieties** : Abadhita, L 604.

A. Group characteristics	Remarks (measured values/example varieties etc.)
Leaf: Shape (Characteristic 8)	Palmate (Normal)
Flower: Petal colour (Characteristic 15)	Cream
Flower: Pollen colour (Characteristic 19)	Cream
Boll: Shape (Characteristic 23)	Ovate

Fibre: Le	ength (Characteristic 33) Medium long				
	B. Distinct characteristics of candidate variety: C 5714 has distinguishing character as Leaf Hairiness: Sparse, Plant Stem Hairiness: Sparse				
Abadhita	C. Distinct characteristics of reference varieties: Abadhita and L 604 has character as Leaf Hairiness: Medium, Plant Stem Hairiness: Medium.				
D. Date	of commercialization of the varie	ety   15.05.2009			
E. Agroi	nomic and commercial attributes	3			
S.No.	Agronomic attributes Details				
1.	Maturity Duration (days)	170-180 (late maturity)			
2.	Boll shape	ovate			
3.	boll size	medium (4.1-4.3 g)			
4.	Boll opening	open			
5.	Fibre quality	fibre length 27.5-28.0 (mm)			
6.	Ginning Outturn (%)	35.0-36.0			
7.	Boll opening	fluffy			
8.	Kapas retention	good			
9.	Yield Potential	1100-1200 kg/ha			

The convention application no. ----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi  $-110\,012$ .

**Passport data of the variety** : C 5538

**Applicant** : Maharashtra Hybrid Seeds Company Limited

Address of the applicant : Resham Bhavan, 4<sup>th</sup> Floor, 78, Veer Nariman Road,

Mumbai-400020

Nationality of applicant : Indian

**Application details a**. Number

. N56 GH39 8 265

**b**. Date of receipt : 02.04.2008

**c**. Date of acceptance :

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : C 5538 **Type of variety** : New Classification of variety

: Inbred parent line, Transgenic

**Previously proposed** 

**denomination** : Not applicable

Name of parental material : Non Bt version of C 5538, MTC 531.90

**Source of parental material** : Own germplasm **Name of reference varieties** : Abadhita, L 604

Variety description:

	oup characteristics	Remarks (measured values/example varieties etc.)					
Leaf: S	hape (Characteristic 8)	Palmate (Normal)					
Flower	: Petal colour (Characteristic 15)	Cream					
Flower	: Pollen colour (Characteristic 19)	Yellow					
Boll: S	hape (Characteristic 23)	Ovate					
Fibre: 1	Length (Characteristic 33)	Medium long					
B. Dist	inct characteristics of candidate v	variety:					
	has distinguishing character as Bol						
	inct characteristics of reference v						
	ta has character as Boll opening: Se	<u>=</u>					
L 604 ł	nas character as Boll opening: Semi-	-open.					
D. Da	te of commercialization of the						
variety	,						
E. Agr	onomic and commercial attribute	s					
S.No.	Agronomic attributes	Details					
1.	Maturity Duration (days)	160-170 (medium late maturity)					
2.	Boll shape	ovate					
3.	Boll size	medium (4.5-5.0 g)					
4.	Boll opening	open					
5. Fibre quality		fibre length 26.5-27.0 (mm)					
6.	Ginning Out turn (%)	33.0-34.0					
7.	Boll opening	fluffy					
8.	Kapas retention	good					
9.	Yield Potential						

The convention application no.---- NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi – 110 012.

Passport data of the variety : NC-47 (GMS)

**Applicant** : Nuziveedu Seeds Ltd.

**Address of the applicant**: Survey No. 69, Gundlapochampally (Vill. & Panchayat),

Medchal-Mandal, Rangareddy- Dist-501401

**Nationality of applicant** : Indian

**Application details** 

**a**. Number : ED3 GH11 13 88

b. Date of receipt : 05.03.2013
 c. Date of acceptance : 28.11.2018

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : NC-47 (GMS)

**Type of variety** : EDV

Classification of variety : Back Cross Derivative (one of the parental lines of cotton

hybrid PRCH-7777)

Previously proposed

**denomination** : Not applicable **Name of parental material** : NCGP-707 x NC-47.

**Source of parental material** : Own germplasm **Name of Initial Varieties** : NC 47 (2009/16)

A. Group characteristic	Remarks (measured values/example variety etc.)
Leaf: Shape (Characteristic 8)	Normal
Flower: Petal colour (Characteristic 15)	Cream
Flower: Pollen colour (Characteristic 19)	Cream
Boll: Shape (longitudinal section) (Characteristic 23)	Round
Fibre: Length (2.5% span length) (mm) (Characteristic 33)	Medium Long
B. Distinct characteristic: (Trait of derivation)	NC-47 (GMS) having GMS
D. Date of commercialization of the variety	
E. Agronomic and commercial attributes	3
S. Agronomic attributes No.	Details
1 Growth habit (Determinate/Indeterminate)	Spreading (>60cm) and indeterminate
2 Days to flowering/Anthesis (Average)	Medium (50-60 days)

3	Days to physiological maturity (Average)	160-175 days								
4	Seed rate per ha	2-3 kg/ac								
5	Recommended Nutrition/ha schedule to attain potential yield and time of application:  Organic (per ha)  Inorganic (per ha)	Fertilizer management: FYM or compost @ 5-10 tons/ac three to four weeks before final harrowing and sowing.  Fertilizer recommendation (kg/ha)								
	Other fertilizers (per ha)	Irrigated Rainfed  N P K N P K								
								K		
		Basal dose (at sowing)	50	20	20	25	25	25		
		1 <sup>st</sup> Top dressing (25 DAS)*	25	15	15	25	-	-		
		Total Requirement	75	35	35	50	25	25		
		* DAS – Days Afte	er So	wing			ı	<u> </u>		
		<b>Micronutrients:</b>								
		Spray GA Leader @ 500 g/ac at 40 days, 750g/ac at 70 days and 1000g/ac at 100 days after sowing to avoid micronutrient deficiency. Soil application of GA leader also can be done @ 8 kg/ac								
6	Spacing (cm) requirement to attain potential yield	Row to row and followed based of irrigation availabilities.	n so	oil to	extur	e, fe	rtility	y stat	status,	
	Row to row	rotation <i>etc</i> .  Deep Black soils  Khandesh region of	of G	ujrat	, Ma	dhya	Prac	Pradesh and		
	Plant to plant	x 45 cm Black Cotton soil (Maharashtra): 90	s of	Vida	arbha	and	Mar	athwa	athwada	
7	Soil requirements to attain the potential yield	Black Cotton soils of Vidarbha and Marathwada (Maharashtra): 90 x 45 cm or 90 x 60 cm or 90 x 30 cm  Andhra Pradesh and Telangana – Heavy soils – 90 x 60 cm or 90 x 45 cm, Medium soils – 90 x 45 cm or 90 x 60 cm or 90 x 30 cm or 75 x 30 Karnataka – Heavy soils 90 x 60 cm or 90 x 45 cm, Medium soils 90 x 45 cm or 90 x 60 cm or 90 x 30 cm  Tamilnadu and Orissa – Heavy soils 90 x 60 cm or 90 x 45 cm, Medium soils – 90 x 45 cm or 90 x 60 cm or 90 x 45 cm, Medium soils – 90 x 45 cm or 90 x 60 cm or 90 x 30 cm  Optimum plant population should be maintained by gap filling as minimum standard for germination is 75 % under the seeds Act, 1966								

		and rules thereof.
8	Plant protection measures to attain the potential yield	Plant Protection: Protect crop against sucking pests i.e Aphids and Jassids with Clothianidin @15 to 20 g/ac, Buprofezin @120 to 160 ml/ac, Acetamiprid @20-40 g/ac or Imidachloprid @50-100 ml/ac or flonicamid 60 ml/ac. To control Thrips, spray Thiomethoxam @40-50 g/ac or Fipronil @600-800 ml/ac, flonicamide @60 ml/ac. To control white flies, spray Difenthiuron @250 g/ac, for control of mealy bugs, spray Profenophos or Quinolphos @400-600 ml/ac. If infestation of bollworms found above economic threshold levels, it is necessary to control bollworms with chemicals such as, quinolphos @600 to 800 ml/ac, Chlorpyriphos @600 ml/ac, thiodcarb @800 g/ac, profenophos @600 ml/ac, cypermethrin @240 ml/ac, chlorantraniliprole 18.5% SC @60 ml/ac (Chloratranilprole (10%) + Lambdacyhalothrin (5%) ZC) 80 to 100 ml/ac, Spinosad @100 ml/ac, Emamectin benzoate 80 ml/ac.
		Disease Management
		It is advisable to take up 1 or 2 prophylactic spraying after 90-100 days of crop growth with fungicide like Metalaxyl Mancozeb, Carbendazim, Copper oxychloride and Streptocyclin or the combination of these for prevention/control of diseases like <i>Grey mildew, Alternaria, Cercospora leaf spot, Bacterial Blight etc.</i> As an alternate to chemical fungicide, the usage of bio fungicide like Trichoderma, Pseudomonas is also recommended. Propiconazole, hexaconazole, cyproconazole are effective broad-spectrum fungicides which can be used in the management of grey mildew, Alternaria leaf spot.
9	Sowing window requirement to attain potential yield (Zone wise)	Second week of June to first week of July.

10	Number of irrigations required to attain potential yield	Water Management: On black soils: 5-6 irrigations are commonly required at the interval of 20 days. On red/light/ sandy loam soils with low water retention capacity: 8-10 irrigations may be required at an interval of 15 days.
11	The best growing season to attain	Kharif in South zone and Central zone
	the potential yield (zonewise)	
12	Name the cropping/climatic zone of india in which the variety hybrid trials were conducted	South and Central zone
13	Intercultural operations (including	Weed Management: Upto 60 days, fields should
	training, prunning & nipping	be weed free. Three to four hoeing at 15 days
		interval after 30 days of sowing helps in keeping
		the plot weed free as well as for retention of soil
		moisture. Under rainfed condition, hand weeding/
		hoeing helps in keeping the plot free from weeds.
		Pendimethalin @1 L/ac is effective pre-emergence herbicide to control nearly 75% of weeds
		including annual grasses. Post emergence
		herbicides Propaquizafop 10% EC @ 200-300
		ml/ac to control grasses and Pyrithiobac sodium @
		250 ml/ac to control broad leaf weeds can be used
		depending upon necessity when interculture or
		hoeing is not possible due to continuous rains.
		Paraquat @ 1 L/ac as post-emergence would give
		good control of weeds in later stages and thereby
		increasing the seed cotton yields.
	Commercial attributes	
1	Yield of Kapas/ha (Average)	6-8 q/ac in south and central zone under irrigated
		condition and 4-6 q/ac in south and central zone under rainfed condition
2	Yield of Lint/ha (Average)	2.5-3.0 q/ac in south and central zone under
	Tield of Emilia (Tiverage)	irrigated condition and 1.5-2.3 q/ac in south and
		central zone under rainfed condition
3	Ginning%	Very high (>37%)
4	Fibre Traits:	
5	a) Colour	White
	b) Length (2.5% Span Length (mm)	Long (25.0-27.0 mm)
	c) Strength (8/tex)	Strong (21.0-24.0 g/tex)
	d) Fineness (Micronaire Value)	Medium (4.0-4.9)
	e) Uniformity (%)	Excellent (>47%)
	f) Maturity (%)	Very good (>81%)
	Plant Height (cm) Average	Medium Tall (91-120)
6	Reaction against major diseases and	Moderately susceptible to jassids and moderate

pests tolerance to whiteflies

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi – 110 012.

**Passport data of the variety** : Bunny Bt (NCS 145 Bt) **Applicant** : Nuziveedu Seeds Ltd.

Address of the applicant : NSL ICON, No.8-2-684/2/A, Plot No. 1 to 4, 4<sup>th</sup> floor,

Opp. ICICI Bank, Road No. 12, Banjara Hills, Hyderabad-

500034 : Indian

Nationality of applicant

**Application details** 

**a**. Number : ED4 GH147 8 479

**b.** Date of receipt : 03.11.2009 **c.** Date of acceptance : 28.11.2018

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : Bunny Bt (NCS 145 Bt)

**Type of variety** : EDV

Classification of variety : Transgenic & Hybrid

**Previously proposed** : Not applicable

denomination

Name of parental material : NC-71Bt x NC-99. Source of parental material : Own germplasm

Name of Initial Varieties : NCS-145 BUNNY (2008/410)

A. Group Characteristic	Remarks (measured values/example variety etc.)					
Leaf: Shape (Characteristic 8)	Palmate (Normal)					
Flower: Petal colour (Characteristic 15)	Cream					
Flower: Pollen colour (Characteristic 19)	Yellow					
Boll: Shape (longitudinal section)	Round					
(Characteristic 23)						
Fibre: Length (2.5% span length) (mm)	Long					
(Characteristic 33)						
<b>B.</b> Distinct characteristics of candidate	Insertion of CrylAc gene (Mon 531 Event) into					
variety: (Trait of derivation)	Bunny Bt (NCS 145 Bt) and it has resistance to					

		bollworm.							
	Pate of commercialization of the	28.05.2005							
varie E. Ag	ty gronomic and commercial attributes	<u> </u> S							
S.	Agronomic attributes	Details							
No.			Details						
1	Growth habit (Determinate/Indeterminate)	Semi spreading and	d inde	termi	nate				
2	Days to flowering/Anthesis (Average)	Early (<50 days)							
3	Days to physiological maturity (Average)	150-160 days							
4	Seed rate per acre	750  g - 1.0  kg							
5	Recommended nutrition/ha	Fertilizer manag	gemen	ıt:	To	apply	FYI	M or	
	schedule to attain potential yield	compost @ 12.5-				e to f	our v	weeks	
	and time of application:	before final harrow	ving a	nd sov	wing.				
	Organic (per ha) Inorganic (per ha)	Fertilizer recomn	nenda	tion (	kg/ha	<b>a</b> )			
	Other fertilizers (per ha)		Irrig	gated		Rair	ıfed		
			N	P	K	N	P	K	
		Basal dose (at sowing)	60	50	25	60	40	20	
		1 <sup>st</sup> Top dressing (25 DAS)*	30	25	25	30	20	20	
		2 <sup>nd</sup> Top dressing (50 DAS)*	30	-	25	30	-	20	
		3 <sup>rd</sup> Top dressing (75 DAS)*	30	-	-	-	-	-	
		Total Requirement	150	75	75	120	60	60	
		* DAS – Days Afte	r Sow	ing			1		
		Micronutrients:							
		Spray GA Leader @ 500 g/ac at 40 days,750 g/ac at 70 days and 1000g/ha at 100 days after sowing to avoid micronutrient deficiency. Soil application of GA leader also can be done @ 8 kg/ac							
6	Spacing (cm) requirement to attain potential yield	Deep Black soils of Gujrat, Madhya Pradesh and Khandesh region of Maharashtra: 5 x 1.5 ft or 4 x 2 ft							

	Row to Row  Plant to Plant	Black Cotton soils of Vidarbha and Marathwada (Maharashtra): 4 x 1.5 ft or 3 x 2 ft or 3.5 x 1.5 ft Andhra Pradesh and Telangana – Heavy soils - 3.5 x 2 ft , Medium soils – 3.5 x 1.5 ft or 3 x 1.5 ft Karnataka – Heavy soils 3 x 3 ft or 4 x 2 ft, Medium soils 3 x 2 ft Tamilnadu and Orissa – Heavy soils 3.5 x 2.5 ft, Medium soils – 3 x 2 ft
7	Soil requirements to attain the potential yield	
8	Plant protection measures to attain the potential yield	Plant Protection: To protect crop against sucking pests i.e. Aphids and Jassids with Clothianidin @15 to 20 g/ac, Buprofezin @120 to 160 ml/ac, Acetamiprid @20-40 g/ac or Imidachloprid @50-100 ml/ac or flonicamid @60 ml/ac. To control Thrips, spray Thiomethoxam @40 -50 g/ac or Fipronil @600-800 ml/ac, flonicamide @60 ml/ac. To control white flies, spray Difenthiuron @250 g/ac, For control of mealy bugs, spray Profenophos or Quinolphos @400-600 ml/ac. If infestation of bollworms found above economic threshold levels, it is necessary to control bollworms with chemicals such as, quinolphos @600 to 800 ml/ac, Chlorpyriphos @600 ml/ac, thiodcarb @800 g/ac, profenophos @600 ml/ac, cypermethrin@ 240 ml/ac, chlorantraniliprole 18.5% SC @60 ml/ac (Chloratranilprole (10%) + Lambdacyhalothrin (5%) ZC) @80 to 100 ml/ac, Spinosad @100 ml/ac, Emamectin benzoate @80 ml/ac.
		Disease Management
		It is advisable to take up 1 or 2 prophylactic spraying after 90-100 days of crop growth with fungicide like Metalaxyl Mancozeb, Carbendazim, Copper oxychloride and Streptocyclin or the combination of these for prevention/control of diseases like <i>Grey mildew, Alternaria, Cercospora leaf spot, Bacterial Blight etc.</i> As an alternate to chemical fungicide, the usage of bio fungicide like Trichoderma, Pseudomonas is also recommended. Propiconazole, hexaconazole, cyproconazole are effective broad-spectrum fungicides which can be used in the management of grey mildew, Alternaria leaf spot.
9	Sowing window requirement to attain potential yield (Zone wise)	Second week of June to first week of July.

10	Number of irrigations required to attain potential yield	<b>Water Management:</b> On black soils, 5-6 irrigations are commonly required at the interval of 20 days. On red/light/ sandy loam soils with low water retention capacity, 8-10 irrigations may be required at the interval of 15 days.
11	The best growing season to attain	Kharif in South zone and Central zone
12	the potential yield (zonewise)  Name the cropping/climatic zone of india in wich the variety hybrid trials were conducted	South and Central zone
13	Intercultural operations (including training, prunning & nipping	Weed Management: Three to four hoeing at 15 days interval after 30 days of sowing. Pendimethalin @1 L/ac is effective pre-emergence herbicide to control nearly 75% of weeds including annual grasses. Post emergence herbicides Propaquizafop 10% EC @ 200-300 ml/ac to control grasses and Pyrithiobac sodium @ 250 ml/ac to control broad leaf weeds can be used depending upon necessity when inter-cultivation or hoeing is not possible due to continuous rains. Paraquat @ 1 L/ac as post-emergence would give good control of weeds in later stages and thereby increasing the seed cotton yields.
14	Any other relevant information specific to the variety/ hybrid	
	Commercial attributes	
1	Yield of Kapas/ac (Average)	12-14 q/ac in south and central zone under irrigated condition and 9-12 q/ac in south and central zone under rainfed condition
2	Yield of Lint/ac (Average)	3.8-4.6 q/ac in south and central zone under irrigated condition and 3.0-3.8 q/ac in south and central zone under rainfed condition
3	Ginning(%)	Medium (33-34)
4	Fibre Traits:	` ′
5	a) Colour	White
	b) Length (2.5% Span Length (mm)	Long (27.5-32.0 mm)
	c) Strength (g/tex)	Strong 25.0- 28.0 g/tex
	d) Fineness (Micronaire Value)	Mic: Fine 3.0 - 3.9
	e) Uniformity (%)	Excellent (>47%)
	f) Maturity (%)	Good (66-80%)
6	Plant Height (cm) Average	Tall (121-150 cm)
6	Reaction against major diseases and pests	Tolerant to jassids, very good tolerance to bacterial blight and grey mildew.
7	Reaction to major abotic stresses like drought, heat, salinity <i>etc</i> .	It can withstand water stress conditions as well as excessive rains.

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi – 110 012.

Passport data of the variety : NC-1207 BG-II

**Applicant** : Nuziveedu Seeds Ltd.

**Address of the applicant**: Survey No. 69, Gundlapochampally (Vill. & Panchayat),

Medchal-Mandal, Rangareddy- Dist-501401

**Nationality of applicant** : Indian

**Application details** 

a. Number : ED45 GH164 13 447

**b.** Date of receipt : 08.08.2013 **c.** Date of acceptance : 28.11.2018

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : NC-1207 BG-II

**Type of variety** : EDV

Classification of variety : Transgenic (the candidate variety is exploited for the

development of hybrid NCS-589 BG-II)

Previously proposed

**Denomination** : Not applicable

Name of parental material : AC-1207 x NC-71Bt2.

**Source of parental material** : Own germplasm **Name of Initial Varieties** : AC-1207, (2012/270)

A. Group characteristic	Remarks (measured values/ example variety etc.)
Leaf: Shape (Characteristic 8)	Palmate (normal)
Flower: Petal colour (Characteristic 15)	Cream
Flower: Pollen colour (Characteristic 19)	Cream
Boll: Shape (longitudinal section)	Round
(Characteristic 23)	
Fibre: Length (2.5% span length) (mm)	Extra Long
(Characteristic 33)	
<b>B.</b> Distinct characteristics of candidate	Insertion of Cry 1Ac and Cry 2Ab genes (Mon 15985
variety: (Trait of derivation)	Event) into NC-1207 BG-II and it has resistance to
	bollworm

	te of reported commercialization variety							
E. Agı	ronomic and commercial attribute	s						
S.No	Agronomic attributes	Details						
1	Growth habit (Determinate/Indeterminate)	Semi Spreading (3)	1-60	cm) a	nd ind	leterm	ninate	
2	Days to flowering/Anthesis (Average)	Medium (50-60 day	vs)					
3	Days to physiological maturity (Average)	150-165 days						
4	Seed rate per ha	2-3 kg/ac						
5	Recommended nutrition/ha	Fertilizer manager						-
	schedule to attain potential yield and time of application:	@ 5-10 tons/ac th		to for	ır we	eks t	oefore	final
	Organic (per ha)	harrowing and sowi	ng.					
	Inorganic (per ha)	Fertilizer recommo	enda	tion (	kg/ha	.)		
	Other fertilizers (per ha)		Irri	gated		Rai	n fed	
			N	P	K	N	P	K
		Basal dose (at sowing)	50	20	20	25	25	25
		1 <sup>st</sup> Top dressing (25 DAS)*	25	15	15	25	-	-
		Total Requirement	75	35	35	50	25	25
		* DAS – Days After	Sow	ing			_	
		<b>Micronutrients:</b>						
		Spray GA Leader 670 days and 1000 avoid micronutrien GA leader also can	g/ac t def	at 100 icienc	) days	s after	r sow	ing to
6	Spacing (cm) requirement to attain potential yield	Khandesh region of Maharashtra: 9 45 cm		tra: 90				
(Maharashtra): 90 x cm								
	Plant to plant	60 cm or 90 x 45 cm, M or 90 x 60 cm or 90 x	elangana – Heavy soils – 90 x Medium soils – 90 x 45 cm 0 x 30 cm or 75 x 30 cm ls 90 x 60 cm or 90 x 45 cm,				45 cm 30 cm	

7	Soil requirements to attain the potential yield	Medium soils 90 x 45cm or 90 x 60 cm or 90 x 30 cm  Tamilnadu and Orissa – Heavy soils 90x60cm or 90 x 45 cm, Medium soils – 90 x 45cm or 90 x 60 cm or 90 x 30 cm
8	Plant protection measures to attain the potential yield	Plant Protection: To protect crop against sucking pests i.e Aphids and Jassids with Clothianidin 15-20 g/ac, Buprofezin 120-160 ml/ac, Acetamiprid 20-40 g/ac or Imidachloprid 50-100 ml/ac or flonicamid 60 ml/ac. To control Thrips, spray Thiomethoxam 40-50 g/ac or Fipronil 600-800 ml/ac, flonicamide 60 ml/ac. To control white flies, spray Difenthiuron 250 g/ac, For control of mealy bugs, spray Profenophos or Quinolphos 400-600 ml/ac. If infestation of bollworms found above economic threshold levels, it is necessary to control bollworms with chemicals such as, quinolphos 600-800 ml/ac, Chlorpyriphos 600 ml/ac, thiodcarb 800 g/ac, profenophos 600 ml/ac, cypermethrin 240 ml/ac, chlorantraniliprole 18.5% SC 60 ml/ac (Chloratranilprole (10%) + Lambdacyhalothrin (5%) ZC) 80-100 ml/ac, Spinosad 100 ml/ac, Emamectin benzoate 80 ml/ac.
		Disease Management
		It is advisable to take up 1 or 2 prophylactic spraying after 90-100 days of crop growth with fungicide like Metalaxyl Mancozeb, Carbendazim, Copper oxychloride and Streptocyclin or the combination of these for prevention / control of diseases like <i>Grey mildew, Alternaria, Cercospora leaf spot, Bacterial Blight etc.</i> As an alternate to chemical fungicide, the usage of bio fungicide like Trichoderma, Pseudomonas is also recommended. Propiconazole, hexaconazole, cyproconazole are effective broadspectrum fungicides which can be used in the management of grey mildew, Alternaria leaf spot.
9	Sowing window requirement to attain potential yield (Zone wise)	Second week of June to first week of July.
10	Number of irrigations required to attain potential yield	Water Management: On black soils, 5-6 irrigations are commonly required at the interval of 20 days. On red/light/ sandy loam soils with low water retention capacity, 8-10 irrigations may be required at the interval of 15 days.
11	The best growing season to attain the potential yield (Zonewise)	Kharif in South zone and Central zone

12	Name the cropping/climatic zone of india in wich the variety hybrid trials were conducted	South and Central zone
13	intercultural operations (including training, prunning & nipping	Weed Management: Three to four inter cultivations (hoeing) at 15 days interval after 30 days of sowing. Pendimethalin @1 L/ac is effective pre-emergence herbicide to control nearly 75% of weeds including annual grasses. Post emergence herbicides Propaquizafop 10% EC @ 200-300 ml/ac to control grasses and Pyrithiobac sodium @ 250 ml/ac to control broad leaf weeds can be used depending upon necessity when intercultivation or hoeing is not possible due to continuous rains. Paraquat @ 1 L/ac as post-emergence would give good control of weeds in later stages and thereby increasing the seed cotton yields.
14	Any other relevant information specific to the variety/ hybrid	-
	Commercial attributes	
1	Yield of Kapas/ acre (Average)	6-8 q/ac in south and central zone under irrigated condition and 4-6 q/ac in south and central zone under rainfed condition
2	Yield of Lint/ acre (Average)	2.0-2.6 q/ac in south and central zone under irrigated condition and 1.5-2.0 q/ac in south and central zone under rainfed condition
3	Ginning(%)	Medium (33-34)
4	Fibre Traits:	
5	a) Colour	White
	b) Length (2.5% Span Length (mm)	Long (27.5 - 32.0 mm)
	c) Strength (8/tex)	Strong (21.0 - 24.0 g/tex)
	d) Fineness (Micronaire Value)	Very fine (<3.0)
	e) Uniformity (%)	Excellent (>47%)
	f) Maturity (%)	Good (66-80%)
6	Plant Height (cm) Average	Medium Tall (91-120 cm)
7	Reaction against major diseases and pests	Moderately susceptible to jassids and moderate tolerance to thrips

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi  $-110\,012$ .

Passport data of the variety : NCS-913 Bt

**Applicant** : Nuziveedu Seeds Ltd.

**Address of the applicant** : NSL ICON, No.8-2-684/2/A, Plot No. 1 to 4, 4<sup>th</sup> Floor, Opp.

ICICI Bank, Road No. 12, Banjara Hills, Hyderabad-

500034

Nationality of applicant : Indian

**Application details** 

a. Number : ED8 GH154 8 489

b. Date of receipt : 11.11.2008 c. Date of acceptance : 28.11.2018

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : NCS-913 Bt

**Type of variety** : EDV

Classification of variety : Transgenic & Hybrid

**Previously proposed** 

**denomination** : Not applicable

Name of parental material : NC 126 Bt x NC 1050 Bt.

**Source of parental material** : Own germplasm. **Name of initial varieties** : NCS 913, (2009/108)

A. Group characteristic	Remarks (measured values/example variety etc.)
A. Group characteristic	Kemarks (measured values/example variety etc.)
Leaf: Shape (Characteristic 8)	Palmate (normal)
Flower: Petal colour (Characteristic 15)	Cream
Flower: Pollen colour (Characteristic 19)	Cream
Boll: Shape (longitudinal section)	Ovate
(Characteristic 23)	
Fibre: Length (2.5% span length) (mm)	Medium Long
(Characteristic 33)	
B. Distinct characteristic: (Trait of derivation)	Insertion of <i>Cry1Ac</i> gene (Mon 531 Event) into NCS-913 Bt and it has resistance to bollworm
D. Date of commercialization of the variety	25.04.2006
E. Agronomic and commercial attributes	

S.No.	Agronomic attributes	Details
1	Growth habit	Semi spreading and indeterminate
	(Determinate/Indeterminate)	
2	Days to flowering/anthesis (average)	Early (<50days)
3	Days to physiological maturity	150-165 days

ı	(Average)							1
4	Seed rate per ha	750g – 1.0 kg						
5	Recommended nutrition/ha schedule to attain potential yield and time of application:  Organic (Per ha)  Inorganic (Per ha)	ule Fertilizer management: To apply FYM						
	Other fertilizers (Per Ha)		Irrig	gated		Rair	ıfed	
,			N	P	K	N	P	K
		Basal dose (at sowing)	60	50	25	60	40	20
		1 <sup>st</sup> Top dressing (25 DAS)*	30	25	25	30	20	20
		2 <sup>nd</sup> Top dressing (50 DAS)*	30	-	25	30	-	20
		3 <sup>rd</sup> Top dressing (75 DAS)*	30	-	-	-	-	-
		Total Requirement	150	75	75	120	60	60
		* DAS – Days After  Micronutrients:  Spray GA Leader Gat 70 days and 1000 to avoid micronutriof GA leader also compared to the second com	<ul><li>500</li><li>g/ac</li><li>ent de</li><li>an be</li></ul>	g/ac at 10 ficie done	00 da ncy. @ 8	ys aft Soil a kg/ac	er so pplic	wing ation
6	Spacing (cm) requirement to attain potential yield	Deep Black soils of Khandesh region of 2	f Mah	arash	itra: :	5 x 1.5	5 ft o	r 4 x ft.
	Row to row	(Maharashtra): 4 x Andhra Pradesh ar	1.5 ft and Tel	or 3 langa	x 2 f ina –	- Heavy soils -		
	Plant to plant	3.5 x 2 ft, Medium Karnataka – Heav Medium soils 3 x 2	y soil ft.	s 3	x 3	ft or	4 x	2 ft,
7	Soil requirements to attain the potential yield	Tamilnadu and Ori Medium soils – 3 x Optimum plant pop by gap filling germination is 75% rules thereof.	2 ft. pulation	on sh ninin	ould	be m	nainta dard	ained for
8	Plant protection measures to attain	<b>Plant Protection:</b>	T	o pr	otect	crop	o ag	ainst

	the potential yield	sucking pests i.e Aphids and Jassids with Clothianidin 15-20 g/ac, Buprofezin 120-160 ml/ac, Acetamiprid 20-40 g/ac or Imidachloprid 50-100 ml/ac or flonicamid 60 ml/ac. To control Thrips, spray Thiomethoxam 40-50 g/ac or Fipronil 600-800 ml/ac, flonicamide 60 ml/ac. To control white flies, spray Difenthiuron 250 g/ac, For control of mealy bugs, spray Profenophos or Quinolphos 400-600 ml/ac. If infestation of bollworms found above economic threshold levels, it is necessary to control bollworms with chemicals such as, quinolphos 600-800 ml/ac, Chlorpyriphos 600 ml/ac, thiodcarb 800 g/ac, profenophos 600 ml/ac, cypermethrin 240 ml/ac, chloratraniliprole 18.5% SC 60 ml/ac (Chloratranilprole (10%) + Lambdacyhalothrin (5%) ZC) 80-100 ml/ac, Spinosad 100 ml/ac, Emamectin benzoate 80 ml/ac.
		It is advisable to take up 1 or 2 prophylactic spraying after 90-100 days of crop growth with fungicide like Metalaxyl Mancozeb, Carbendazim, Copper oxychloride and Streptocyclin or the combination of these for prevention/control of diseases like <i>Grey mildew</i> , <i>Alternaria</i> , <i>Cercospora leaf spot</i> , <i>Bacterial Blight etc</i> . As an alternate to chemical fungicide, the usage of bio fungicide like Trichoderma, Pseudomonas is also recommended. Propiconazole, hexaconazole, cyproconazole are effective broad-spectrum fungicides which can be used in the management of grey mildew, Alternaria leaf spot.
9	Sowing window requirement to attain potential yield (Zone wise)	Second week of June to first week of July.
10	Number of irrigations required to attain potential yield	Water Management: On black soils, 5-6 irrigations are commonly required at the interval of 20 days. On red/light/sandy loam soils with low water retention capacity, 8-10 irrigations may be required at the interval of 15 days.
11	The best growing season to attain the potential yield (zonewise)  Name the cropping/climatic zone of	Kharif in South zone and Central zone  South and Central zone
12	india in wich the variety Hybrid trials were conducted	Sount and Central Zone

13	Intercultural operations (including training, prunning & nipping	<b>Weed Management:</b> Three to four inter cultivations (hoeing) at 15 days interval after 30
		days of sowing. Pendimethalin @ 1 L/ac is
		effective pre-emergence herbicide to control
		nearly 75% of weeds including annual grasses.
		Post emergence herbicides Propaquizafop 10%
		EC @ 200-300 ml/ac to control grasses and
		Pyrithiobac sodium @ 250 ml/ac to control broad
		leaf weeds can be used depending upon necessity
		when intercultivation or hoeing is not possible
		due to continuous rains. Paraquat @ 1 L/ac as
		post-emergence would give good control of weeds
		in later stages and thereby increasing the seed
		cotton yields.
	Commercial attributes	
1	Yield of Kapas/ha (Average)	9-11 q/ac in south and central zone under irrigated
		condition and 6-8 q/ac in south and central zone under rainfed condition
2	Yield of Lint/ha (Average)	3-4 q/ac in south and central zone under irrigated
	Tield of Lindha (Average)	condition and 2.0-2.5 q/ac in south and central
		zone under rainfed condition
3	Ginning%	Very high (>37)
4	Fibre Traits:	
5	a) Colour	White
	b) Length (2.5% Span Length (mm)	Long (27.5-32.0 mm)
	c) Strength (g/tex)	Medium 21.0- 24.0 g/tex
	d) Fineness (Micronaire Value)	Mic: Fine 3.0 - 3.9
	e) Uniformity (%)	Excellent (>47%)
	f) Maturity (%)	Very good (>81%)
	Plant Height (cm) Average	Medium Tall (91-120 cm)

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi – 110 012.

Passport data of the variety: Mallika Bt (NCS 207 Bt)Applicant: Nuziveedu Seeds Ltd.

**Address of the applicant** : NSL ICON, No.8-2-684/2/A, Plot No. 1 to 4, 4<sup>th</sup> Floor,

Opp. ICICI Bank, Road No. 12, Banjara Hills, Hyderabad-

500034

Nationality of applicant : Indian

**Application details** 

a. Number : ED3 GH153 8 487

**b**. Date of receipt : 10.11.2008 **c**. Date of acceptance : 28.11.2018

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : Mallika Bt (NCS 207 Bt)

**Type of variety** : EDV

Classification of variety : Transgenic & Hybrid

**Previously proposed** 

**Denomination** : Not applicable

Name of parental material : NC 108 Bt x NC 102. Source of parental material : Own germplasm

Name of Initial varieties : Mallika-NCS 207, (2008/411)

A. Group characteristic	Remarks (measured values/example variety etc.)
Leaf: Shape (Characteristic 8)	Palmate (normal)
Flower: Petal colour (Characteristic 15)	Cream
Flower: Pollen colour (Characteristic 19)	Yellow
Boll: Shape (longitudinal section)	Ovate
(Characteristic 23)	
Fibre: Length (2.5% span length) (mm)	Extra Long
(Characteristic 33)	
<b>B.</b> Distinct characteristics of candidate	Insertion of CrylAc gene (Mon 531 Event) into
variety: (Trait of derivation)	Mallika Bt (NCS 207 Bt) and it has resistance to
	bollworm.
D. Date of commercialization of the	05.06.2005
variety	
E. Agronomic and commercial attributes	

S.	Agronomic attributes	Details
No.		
1	Growth habit (Determinate/Indeterminate)	Semi spreading and indeterminate
2	Days to flowering/anthesis (Average)	Medium (50-60 days)
3	Days to physiological maturity (Average)	160-170 days
4	Seed rate per ha	750g – 1.0 kg

5	Recommended nutrition/ha schedule to	Fertilizer manage	ement	: To	alw	ays ap	ply ]	FYM
	attain potential yield and time of	or compost @ 5-1					our v	veeks
	application:	before final harrov	ving a	nd so	wing	ζ.		
		Fertilizer recommendation (kg/ha)						
			Irrig	gated		Rair	ıfed	
			N	P	K	N	P	K
		Basal dose (at sowing)	60	50	25	60	40	20
		1 <sup>st</sup> Top dressing (25 DAS)*	30	25	25	30	20	20
		2 <sup>nd</sup> Top dressing (50 DAS)*	30	-	25	30	-	20
	Organic (per ha) Inorganic (per ha)	3 <sup>rd</sup> Top dressing (75 DAS)*	30	-	-	-	-	-
	Other fertilizers (per ha)	Total	150	75	75	120	60	60
		Requirement						
		* DAS – Days Afte	er Sow	ing	I		I	
		Micronutrients:						
		Spray GA Leader	@ 500	) g/a	e at 4	0 days	s,750	g/ac
		at 70 days and		-			-	
		sowing to avoid application of GA kg/ac.					•	
6	Spacing (cm) requirement to attain potential yield	Deep Black soils of Khandesh region of 2 ft.				•		
	Row to row	Black Cotton soils of Vidarbha and Marathwac (Maharashtra): 4 x 1.5 ft or 3 x 2 ft or 3.5 x 1 ft.						
	Plant to plant	Andhra Pradesh a 3.5 x 2 ft Medium Karnataka – Heav	soils -	-3.5	x 1.5	5 ft or	3 x 1	.5 ft
7	Soil requirements to attain the potential yield	Medium soils 3 x 2 Tamilnadu and Or Medium soils – 3 2	issa –	Hea	vy so	oils 3.	5 x 2	2.5 ft,
8	Plant protection measures to attain the potential yield	Plant Protection sucking pests i. Clothianidin 15-2	e Ap	hids	and	Jass	sids	with

		ml/ac, Acetamiprid 20-40 g/ac or Imidachloprid
		50-100 ml/ac or flonicamid 60 ml/ac. To control
		Thrips, spray Thiomethoxam 40-50 g/ac or
		Fipronil 600-800 ml/ac, flonicamide 60ml/ha. To
		control white flies, spray Difenthiuron 250 g/ac,
		For control of mealy bugs, spray Profenophos or
		Quinolphos 400-600 ml/ac. If infestation of
		-
		bollworms found above economic threshold
		levels, it is necessary to control bollworms with
		chemicals such as, quinolphos 600 to 800 ml/ac,
		Chlorpyriphos 600 ml/ac, thiodcarb 800 g/ac,
		profenophos 600 ml/ac, cypermethrin 240 ml/ac,
		chlorantraniliprole 18.5% SC 60 ml/ac
		(Chloratranilprole (10%) + Lambdacyhalothrin
		(5%) ZC) 80-100 ml/ac, Spinosad 100 ml/ac,
		Emamectin benzoate 80 ml/ac
		Disease Management
		It is advisable to take up 1 or 2 prophylactic
		spraying after 90-100 days of crop growth with
		fungicide like Metalaxyl Mancozeb,
		Carbendazim, Copper oxychloride and
		Streptocyclin or the combination of these for
		prevention/control of diseases like <i>Grey mildew</i> ,
		Alternaria, Cercospora leaf spot, Bacterial
		Blight etc. As an alternate to chemical fungicide,
		the usage of bio fungicide like Trichoderma,
		Pseudomonas is also recommended.
		Propiconazole, hexaconazole, cyproconazole are
		effective broad-spectrum fungicides which can
		be used in the management of grey mildew,
		Alternaria leaf spot.
0	Carrier and large manifestation of the state of	•
9	Sowing window requirement to attain potential yield (Zone wise)	Second week of June to first week of July.
10	Number of irrigations required to attain	Water Management: On black soils, 5-6
	potential yield	irrigations are commonly required at the interval
		of 20 days. On red/light/sandy loam soils with
		low water retention capacity, 8-10 irrigations
		may be required at the interval of 15 days.
11	The best growing season to attain the	Kharif in South zone and Central zone
	potential yield (zonewise)	
12	Name the cropping/Climatic Zone of	South and Central zone
	India in wich the variety Hybrid trials	
12	were conducted  Intercultural energians (Including	Wood Managements Three to four inter-
13	Intercultural operations (Including	Weed Management: Three to four inter-
	training, prunning & nipping	cultivations (hoeing) at 15 days interval after 30
	84	

		days of sowing. Pendimethalin @ 1 L/ac is effective pre-emergence herbicide to control nearly 75% of weeds including annual grasses. Post emergence herbicides Propaquizafop 10% EC @ 200-300 ml/ac to control grasses and Pyrithiobac sodium @ 250 ml/ac to control broad leaf weeds can be used depending upon necessity when intercultivation or hoeing is not possible due to continuous rains. Paraquat @ 1 L/ac as post-emergence would give good control of weeds in later stages and thereby increasing the seed cotton yields.
	Commercial attributes	
1	Yield of kapas/ha (Average)	12-14 q/ac in south and central zone under irrigated condition and 8-10 q/ac in south and central zone under rainfed condition
2	Yield of lint/ha (Average)	4-5 q/ac in south and central zone under irrigated condition and 2.8-3.5 q/ac in south and central zone under rainfed condition
3	Ginning%	High (35-36)
4	Fibre Traits:	
5	a) Colour	White
	b) Length (2.5% Span Length (mm)	Long (27.5-32.0 mm)
	c) Strength (g/tex)	Medium 21.0- 24.0 g/tex
	d) Fineness (Micronaire Value)	Mic: Fine 3.0 - 3.9
	e) Uniformity (%)	Excellent (>47%)
	f) Maturity (%)	Very good (>81%)
	Plant Height (cm) Average	Very tall (>150 cm)
6	Reaction against major diseases and pests	Moderately tolerant to bacterial blight, grey mildew and alternaria. Slightly susceptible to jassids in early stages of growth. Moderately tolerant to whiteflies.
7	Reaction to major abotic stresses like drought, heat, salinity <i>etc</i> .	It can withstand excess rainfall

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi  $-110\,012$ .

Passport data of the variety : NC-126 Bt

**Applicant** : Nuziveedu Seeds Ltd.

**Address of the applicant** : NSL ICON, No.8-2-684/2/A, Plot No. 1 to 4, 4<sup>th</sup> Floor,

Opp. ICICI Bank, Road No. 12, Banjara Hills, Hyderabad-

500034

Nationality of applicant : Indian

**Application details** 

**a**. Number : ED5 GH138 9 256

**b.** Date of receipt : 11.05.2009 **c.** Date of acceptance : 28.11.2018

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : NC-126 Bt

**Type of variety** : EDV

Classification of variety : Transgenic & Other (Inbred parent line)

**Previously proposed** 

**denomination** : Not applicable

Name of parental material : NC-126 x NC-71 Bt. Source of parental material : Own Germplasm : NC-126, (2009/178)

A. Gr	oup characteristic	Remarks (measured values/example variety etc.)				
Leaf: S	Shape (Characteristic 8)	Palmate (normal)				
Flower	: Petal colour (Characteristic 15)	Cream				
Flower	: Pollen colour (Characteristic 19)	Cream				
Boll:	Shape (longitudinal section)	Round				
(Chara	cteristic 23)					
Fibre:	Length (2.5% span length) (mm)	Long				
(Chara	cteristic 33)					
B. Distinct characteristic: (Trait of		Insertion of CrylAc gene (Mon 531 Event) into				
derivation)		NC-126 Bt and it has resistance to bollworms				
D. Date of commercialization of the		25.04.2006				
variety	Ÿ					
E. Agr	onomic and commercial attributes	S				
S.No.	Agronomic attributes	Details				
1	Growth habit	Semi Spreading (31-60 cm) and indeterminate				
	(Determinate/Indeterminate)					
2	Days to flowering/anthesis	Medium (50-60 days)				
	(Average)					
3	Days to physiological maturity	150-165 days				
	(Average)					
4	Seed rate per ha	2-3 kg/ac				
5	Recommended nutrition/ha	Fertilizer management: To apply FYM or				
	schedule to attain potential yield	compost @ 5-10 tons/ac three to four weeks				
	and time of application:					

	Organic (per ha)	before final harrow	ing a	and s	owing	g.				
	Inorganic (per ha)	Fertilizer recommendation (kg/ha)								
	Other fertilizers (per ha)	retimzer recomm	1							
				igate			nfed	17		
		<b>D</b> 1 1 (	N	P	K	N	P	K		
		Basal dose (at sowing)	50	20	20	25	25	25		
		1 <sup>st</sup> Top dressing	25	15	15	25	-	-		
		(25 DAS)*								
		2 <sup>nd</sup> Top dressing	-	-	-	-	-	-		
		(50 DAS)*				1		+		
		3 <sup>rd</sup> Top dressing (75 DAS)*	-	-	-	-	-	-		
		Total Requirement	75	35	35	50	25	25		
		* DAS – Days After	r Cov	vina						
		Micronutrients:	SON	ving						
		Spray GA Leader @ 500 g/ac at 40 days, 750 g/ac at 70 days and 1000 g/ac at 100 days after sowing								
		to avoid micronutri of GA leader also c			•			cation		
6	Spacing (cm) requirement to	1 3								
	attain potential yield	Khandesh region of Maharashtra: 90 x 60 cm or 90 x 45 cm						cm or cm		
	Row to row	Black Cotton soils of Vidarbha and Marathwada (Maharashtra): 90 x 45 cm or 90 x 60 cm or 90 x								
		Andhra Pradesh and Telangana – Heavy soils – 9 x 60 cm or 90 x 45 cm, Medium soils – 90 x 4					cm 90 – 2			
	Plant to plant						) x 45			
		cm or 90 x 60 cm or 90 x 30 cm or 75 x 30 cm - Karnataka – Heavy soils 90 x 60 cm or 90 x 45								
7	Soil requirements to attain the potential yield	cm, Medium soils								
	F committee years	x 30 cm Tamilnadu and Orissa – Heavy soils 90 x 60 cm 90 x 45 cm, Medium soils – 90 x 45 cm or 90 s						cm or		
		cm or 90 x 30 cm								
8	Plant protection measures to	Plant Protection	'	То	prote	ct cr	op a	gainst		
	attain the potential yield	sucking pests i.e	e. A	phid	s an	d Ja	ssids	with		
		Clothianidin 15-2	_		-					
		ml/ac, Acetamiprio						-		
		50-100 ml/ac or fl								
		Thrips, spray Th					_			
		Fipronil 600-800 n								
		control white flies	-	•				-		
		For control of mea	•	_			-			
		Quinolphos 400-6	600	ml/a	c. If	infe	estatio	on of		

		bollworms found above economic threshold levels, it is necessary to control bollworms with chemicals such as, quinolphos 600 to 800 ml/ac, Chlorpyriphos 600 ml/ac, thiodcarb 800 g/ac, profenophos 600 ml/ac, cypermethrin 240 ml/ac, chlorantraniliprole 18.5% SC 60 ml/ac. (Chloratranilprole (10%) + Lambdacyhalothrin (5%) ZC) 80-100 ml/ac, Spinosad 100 ml/ac, Emamectin benzoate 80 ml/ac.
		Disease Management
		It is advisable to take up 1 or 2 prophylactic spraying after 90-100 days of crop growth with fungicide like Metalaxyl Mancozeb, Carbendazim, Copper oxychloride and Streptocyclin or the combination of these for prevention/control of diseases like <i>Grey mildew</i> , <i>Alternaria</i> , <i>Cercospora leaf spot</i> , <i>Bacterial Blight etc</i> . As an alternate to chemical fungicide, the usage of bio fungicide like Trichoderma, Pseudomonas is also recommended. Propiconazole, hexaconazole, cyproconazole are effective broad-spectrum fungicides which can be used in the management of grey mildew, Alternaria leaf spot.
9	Sowing window requirement to attain potential yield (Zone wise)	Second week of June to first week of July.
10	Number of irrigations required to attain potential yield	Water Management: On black soils, 5-6 irrigations are commonly required at the interval of 20 days. On red/light/ sandy loam soils with low water retention capacity, 8-10 irrigations may be required at the interval of 15 days.
11	The best growing season to attain the potential yield (Zonewise)	Kharif in South zone and Central zone
12	Name the cropping/climatic zone of india in wich the variety hybrid trials were conducted	South and Central zone
13	Intercultural operations (including training, prunning & nipping	Weed Management: Three to four inter cultivations (hoeing) at 15 days interval after 30 days of sowing. Pendimethalin @ 1 L/ac is effective pre-emergence herbicide to control nearly 75% of weeds including annual grasses. Post emergence herbicides Propaquizafop 10% EC @ 200-300 ml/ac to control grasses and Pyrithiobac sodium @ 250 ml/ac to control broad leaf weeds can be used depending upon necessity when intercultivation or hoeing is not possible due

		to continuous rains. Paraquat @ 1 L/ac as post- emergence would give good control of weeds in later stages and thereby increasing the seed cotton yields.
	Commercial attributes	
1	Yield of Kapas/ acre (Average)	6-8 q/ac in south and central zone under irrigated condition and 4-6 q/ac in south and central zone under rainfed condition
2	Yield of Lint/ acre (Average)	2.5-3.0 q/ac in south and central zone under irrigated condition and 1.5-2.0 q/ac in south and central zone under rainfed condition
3	No. of the fruits/plant (Average)	
4	Ginning%	High (35-36)
5	Fibre Traits:	
	a) Colour	White
	b) Length (2.5% Span Length (mm)	Long (27.5 - 32.0 mm)
	c) Strength (8/tex)	Strong (25.0 - 28.0 g/tex)
	d) Fineness (Micronaire Value)	Medium (4.0-4.9)
	e) Uniformity (%)	Excellent (>47%)
	f) Maturity (%)	Very good (>81%)
6	Plant Height (cm) Average	Medium Tall (91-120 cm)
7	Reaction against major diseases and pests	Moderately susceptible to jassids and moderate tolerance to whiteflies
8	Reaction to major abotic stresses like drought, heat, salinity <i>etc</i> .	Drought tolerant

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi – 110 012.

Passport data of the variety : NC-113 Bt

**Applicant** : Nuziveedu Seeds Ltd.

**Address of the applicant** : NSL ICON, No. 8-2-684/2/A, Plot No. 1 to 4, 4<sup>th</sup> Floor,

Opp. ICICI Bank, Road No. 12, Banjara Hills, Hyderabad-

500034 : Indian

Nationality of applicant

**Application details** 

a. Number	: ED4	GH132	9	250	
a Number		CUI	۱۵	250	

**b.** Date of receipt : 11.05.2009 **c.** Date of acceptance : 28.11.2018

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : NC-113 Bt **Type of variety** : EDV

Classification of variety : Transgenic (parent line) (NC-113Bt is one of the parental

line of hybrid NCS-955 Bt and it is applied for PPV&FRA

registration REG/2008/480)

**Previously proposed** 

denomination: Not applicableName of parental material: NC-113 x NC-71BtSource of parental material: Own germplasmName of initial varieties: NC-113, (2009/177)

A. Gr	oup characteristic	Remarks (measure	ed va	lues/	exam	ple va	ariety	etc.)
Leaf: S	Shape (Characteristic 8)	Palmate (normal)						
Flowe	r: Petal colour (Characteristic 15)	Cream						
Flowe	r: Pollen colour (Characteristic 19)	Cream						
Boll:	Shape (longitudinal section)	Round						
(Chara	cteristic 23)							
Fibre:	Length (2.5% span length) (mm)	Long						
(Chara	cteristic 33)							
B. Dis	tinct characteristics of candidate	Insertion of Cry1A	Ac go	ene (	Mon	531	Event	) into
variet	y: (Trait of derivation)	NC-113 Bt and it ha	as res	sistan	ce to l	bollw	orm.	
D. Da	te of reported commercialization	13.06.2007						
	variety							
E. Agi	ronomic and commercial attribute	S						
S.No.	Agronomic attributes	Details						
1	Growth habit	Semi Spreading (3	1-60	cm) a	nd inc	letern	ninate	
	(Determinate/Indeterminate)							
2	Days to flowering/Anthesis	Medium (50-60 day	/s)					
3	(Average)  Days to physiological maturity	150-165 days						
	(Average)	150 105 days						
4	Seed rate per ha	2-3 Kg/Ac						
5	Recommended nutrition/ha	Fertilizer manage	emei	nt:	To	apply	FY	M or
	schedule to attain potential yield							
and time of application: final harro		final harrowing and	sow	ing.				
	Organic (per ha)	Fertilizer recomm	enda	tion	(kg/h	a)		
	Inorganic (per ha)		1					
	Other fertilizers (per ha)		Irr	igated	d	Raiı	nfed	
			N	P	K	N	P	K

		Basal dose (at sowing)	50	20	20	25	25	25
		1 <sup>st</sup> Top dressing (25 DAS)*	25	15	15	25	-	-
		2 <sup>nd</sup> Top dressing (50 DAS)*	-	-	-	-	-	-
		3 <sup>rd</sup> Top dressing (75 DAS)*	-	-	-	-	-	-
		Total Requirement	75	35	35	50	25	25
		* DAS – Days After Micronutrients:	r Sou	ing	1	1	1	
		Spray GA Leader at 70 days and 100 to avoid micronution of GA leader also contains	00 g/ rient	ac at defic	100 diency	days a . Soil	ıfter s appli	owing
6	Spacing (cm) requirement to attain potential yield (Row to row Plant to plant)	Deep Black soils of Gujrat, Madhya Pradesh and Khandesh region of Maharashtra: 90 x 60 cm or 90 x 45 cm  Black Cotton soils of Vidarbha and Marathwad (Maharashtra): 90 x 45 cm or 90 x 60 cm or 90 x 30 cm						or 90 hwada
		Andhra Pradesh an x 60 cm or 90 x 45 or 90 x 60 cm or 90 Karnataka – Heavy Medium soils 90 x cm Tamilnadu and Ori	cm, x 30 y soil 45 c	Med 0 cm s 90 z m or - Hea	ium s or 75 x 60 c 90 x vy so	oils – x 30 c m or 60 cm	90 x em 90 x 4 n or 90	45 cm, 45 cm, 0 x 30 cm or
7	Soil requirements to attain the	90 x 45 cm, Mediu cm or 90 x 30 cm	ım so	oils –	90 x	45 cm	1 or 9	0 x 60
0	potential yield	DI ( D ( )	г					1.
8	Plant protection measures to attain the potential yield	Plant Protection: 7 pests i.e. Aphids a 20 g/ac, Buprofez 20-40 g/ac or In flonicamid 60 ml Thiomethoxam 40 ml/ac, flonicamide spray Difenthiuron bugs, spray Profe ml/ac. If infestati economic threshold	nd Ja nidad l/ac. 0-50 60 m 250 noph	assids 20-16 chlop To g/ac nl/ac. g/ac os or of bo	with one with rid 5 contro or l To co , For r Qui	Cloth/ac, Ac (10-100) Cloth The Fiprore Control Contro	nianid Acetar O ml/ nrips, nil 60 white ol of os 40 pund	in 15-miprid fac or spray 00-800 e flies, mealy 00-600 above

		bollworms with chemicals such as, quinolphos 600-800 ml/ac, Chlorpyriphos 600 ml/ac, thiodcarb 800 g/ac, profenophos 600 ml/ac, cypermethrin 240 ml/ac, chlorantraniliprole 18.5% SC 60 ml/ac (Chloratranilprole (10%) + Lambdacyhalothrin (5%) ZC) 80-100 ml/ac, Spinosad 100 ml/ac, Emamectin benzoate 80 ml/ac.
		Disease Management
		It is advisable to take up 1 or 2 prophylactic spraying after 90-100 days of crop growth with fungicide like Metalaxyl Mancozeb, Carbendazim, Copper oxychloride and Streptocyclin or the combination of these for prevention/control of diseases like Grey mildew, Alternaria, Cercospora leaf spot, Bacterial Blight <i>etc</i> . As an alternate to chemical fungicide, the usage of bio fungicide like Trichoderma, Pseudomonas is also recommended. Propiconazole, hexaconazole, cyproconazole are effective broad-spectrum fungicides which can be used in the management of grey mildew, Alternaria leaf spot.
9	Sowing window requirement to attain potential yield (Zone wise)	Second week of June to first week of July.
10	Number of irrigations required to attain potential yield	Water Management: On black soils, 5-6 irrigations are commonly required at the interval of 20 days. On red/light/ sandy loam soils with low water retention capacity, 8-10 irrigations may be required at the interval of 15 days.
11	The best growing season to attain the potential yield (Zonewise)	Kharif in South zone and Central zone
12	Name the cropping/climatic zone of India in wich the variety Hybrid trials were conducted	South and Central zone
13	Intercultural operations (Including training, prunning & nipping	Weed Management: Three to four inter cultivations (hoeing) at 15 days interval after 30 days of sowing. Pendimethalin @ 1 L/ac is effective pre-emergence herbicide to control nearly 75% of weeds including annual grasses. Post emergence herbicides Propaquizafop 10% EC @ 200-300 ml/ac to control grasses and Pyrithiobac sodium @ 250 ml/ac to control broad leaf weeds can be used depending upon necessity when intercultivation or hoeing is not possible due to continuous rains. Paraquat @ 1 L/ac as post-emergence would give good control of weeds in later stages and thereby increasing the seed cotton yields.

14	Any other relevant information specific to the variety/ hybrid	
	Commercial attributes	
1	Yield of kapas/ac (Average)	5-7 q/ac in south and central zone under irrigated condition and 3-5 q/ac in south and central zone under rainfed condition
	Yield of lint/ac (Average)	1.8-2.5 q/ac in south and central zone under irrigated condition and 1.0-1.8 q/ac in south and central zone under rainfed condition
2	Ginning%	High (35-36)
3	Fibre Traits:	
	a) Colour	White
	b) Length (2.5% Span Length (mm)	Long (27.5-32.0 mm)
	c) Strength (8/tex)	Strong (25.0-28.0 g/tex)
	d) Fineness (Micronaire Value)	Fine (3.0-3.9)
	e) Uniformity (%)	Excellent (> 47%)
	f) Maturity (%)	Very good (> 81%)
4	Plant Height (cm) Average	Tall (121-150 cm)
5	Reaction against major diseases and pests	Susceptible to jassids and moderate tolerance to whiteflies

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi  $-110\,012$ .

Passport data of the variety : NC-2153 BG-II

**Applicant** : Nuziveedu Seeds Ltd.

Address of the applicant : NSL ICON, No.8-2-684/2/A, Plot No. 1 to 4, 4<sup>th</sup> Floor,

Opp. ICICI Bank, Road No. 12, Banjara Hills, Hyderabad-

500034 : Indian

Nationality of applicant

**Application details** 

**a**. Number : ED53 GH172 13 455

**b**. Date of receipt : 12.08.2013

c. Date of acceptance : 28.11.2018

Crop (Taxonomical lineage) : Tetraploid Cotton (Gossypium hirsutum L.)

**Denomination** : NC-2153 BG-II

**Type of variety** : EDV

Classification of variety : Transgenic and others (Parental Line) (Candidate variety is

exploited for the development of hybrid NCS-2123BG-II)

**Previously proposed** 

**denomination** : Not applicable

Name of parental material : NC-2153 x NC-71 Bt Source of parental material : Own germplasm Name of initial varieties : NC-2153, (2009/230)

A. Group characteristic	Remarks (measured values/example variety etc.)
Leaf: Shape (Characteristic 8)	Palmate (normal)
Flower: Petal colour (Characteristic 15)	Cream
Flower: Pollen colour (Characteristic 19)	Cream
Boll: Shape (longitudinal section)	Round
(Characteristic 23)	
Fibre: Length (2.5% span length) (mm)	Medium Long
(Characteristic 33)	
B. Distinct characteristics of candidate	Insertion of Cry1Ac and Cry2Ab genes (Event Mon
variety: (Trait of derivation)	15985) into NC-2153 BG-II and it has resistance to
	bollworm.
D. Date of commercialization of the	
variety  E. Agranamia and communical attributes	
E. Agronomic and commercial attributes S.No.   Agronomic Attributes	Details
3	
1 Growth habit (Determinate/Indeterminate)	Compact (< 30 cm) and indeterminate
2 Days to flowering/anthesis	Medium (50-60 days)
(Average)	
3 Days to physiological maturity	150-165 days
(Average)	
4 Seed rate per ha	2-3 kg/ac
5 Recommended nutrition/ha schedule	<b>Fertilizer management:</b> To apply FYM or compost
to attain potential yield and time of application:	@ 5-10 tons/ac three to four weeks before final
Organic (per ha)	harrowing and sowing.
Inorganic (per ha)	Fertilizer recommendation (kg/ha)
Other fertilizers (per ha)	Irrigated Rainfed
-	
	N P K N P K
	Basal dose (at 50 20 20 25 25 25
	sowing)

		1 <sup>st</sup> Top dressing	25	15	15	25	-	-
		(25 DAS)*						
		Total	75	35	35	50	25	25
		Requirement						
		* DAS – Days After	Sow	ing	•	•	•	<u> </u>
		<b>Micronutrients:</b>						
		Spray GA Leader @		_		•	_	
		70 days and 1000	-		•			-
		avoid micronutrien GA leader also can			•		piicati	on or
6	Spacing (cm) requirement to attain	Deep Black soils					rades	h and
	potential yield	Khandesh region of 45 cm				•		
	Row to row	Black Cotton soils						
		(Maharashtra): 90 x	k 45 c	m or	90 x	60 cm	or 90	) x 30
	Plant to plant	Andhra Pradesh and	d Tela	angan	a – H	eavy	soils -	- 90 x
	Figure to prant	60 cm or 90 x 45 c	m, M	ediun	soils	-90		
		90 x 60 cm or 90 x					00 4	<i>5</i>
7	Soil requirements to attain the	Karnataka – Heavy Medium soils 90 x						
	potential yield	cm			, , , , ,	30 <b>C</b> 111	01 )	, 11 20
		Tamilnadu and Ori			•			
		90 x 45 cm, Mediu cm or 90 x 30 cm	ım so	11s – 9	90 x 4	15 cm	or 90	) x 60
8	Plant protection measures to attain	Plant Protection:	To 1	orotec	t cror	agai	nst su	cking
	the potential yield	pests i.e. Aphids an	-		-	_		_
		g/ac, Buprofezin 12	20-16	0 ml/	ac, A	cetam	iprid	20-40
		g/ac or Imidachlop						
		ml/ac. To control	-		•			
		50 g/ac or Fiproni ml/ac. To control w						
		g/ac, For control o						
		or Quinolphos 40						
		bollworms found al						
		is necessary to co						
		such as, quinolpho						_
		600 ml/ac, thiodc ml/ac, cypermethri		_	-		-	
		18.5% SC 60 ml						-
		Lambdacyhalothrin				-		ml/ac,
		Spinosad 100 ml/ac	e, Ema	amect	in ber	ızoate	80 m	l/ac.
		Disease Managem	ent					
		It is advisable to tal	ke up	1 or 2	prop	hylac	tic spi	aying

		after 90-100 days of crop growth with fungicide like Metalaxyl Mancozeb, Carbendazim, Copper oxychloride and Streptocyclin or the combination of these for prevention / control of diseases like <i>Grey mildew, Alternaria, Cercospora leaf spot, Bacterial Blight etc.</i> As an alternate to chemical fungicide, the usage of bio fungicide like Trichoderma, Pseudomonas is also recommended. Propiconazole, hexaconazole, cyproconazole are effective broadspectrum fungicides which can be used in the management of grey mildew, Alternaria leaf spot.
9	Sowing window requirement to attain potential yield (Zone wise)	Second week of June to first week of July.
10	Number of irrigations required to attain potential yield	Water Management: On black soils, 5-6 irrigations are commonly required at the interval of 20 days. On red/light/ sandy loam soils with low water retention capacity, 8-10 irrigations may be required at the interval of 15 days.
11	The best growing season to attain the potential yield (zonewise)	Kharif in South zone and Central zone
12	Name the cropping/Climatic Zone of India in wich the variety Hybrid trials were conducted	South and Central zone
13	Intercultural operations (Including Training, Prunning & Nipping	<b>Weed Management:</b> Three to four inter cultivations (hoeing) at 15 days interval after 30 days of sowing. Pendimethalin @ 1 L/ac is effective
		pre-emergence herbicide to control nearly 75% of weeds including annual grasses. Post emergence herbicides Propaquizafop 10% EC @ 200-300 ml/ac to control grasses and Pyrithiobac sodium @ 250 ml/ac to control broad leaf weeds can be used depending upon necessity when intercultivation or hoeing is not possible due to continuous rains. Paraquat @ 1 L/ac as post-emergence would give good control of weeds in later stages and thereby increasing the seed cotton yields.
14	Any other relevant information specific to the Variety/ Hybrid	pre-emergence herbicide to control nearly 75% of weeds including annual grasses. Post emergence herbicides Propaquizafop 10% EC @ 200-300 ml/ac to control grasses and Pyrithiobac sodium @ 250 ml/ac to control broad leaf weeds can be used depending upon necessity when intercultivation or hoeing is not possible due to continuous rains. Paraquat @ 1 L/ac as post-emergence would give good control of weeds in later stages and thereby
14		pre-emergence herbicide to control nearly 75% of weeds including annual grasses. Post emergence herbicides Propaquizafop 10% EC @ 200-300 ml/ac to control grasses and Pyrithiobac sodium @ 250 ml/ac to control broad leaf weeds can be used depending upon necessity when intercultivation or hoeing is not possible due to continuous rains. Paraquat @ 1 L/ac as post-emergence would give good control of weeds in later stages and thereby increasing the seed cotton yields.  5-7 q/ac in south and central zone under irrigated condition and 3-5 q/ac in south and central zone
	specific to the Variety/ Hybrid  Commercial attributes	pre-emergence herbicide to control nearly 75% of weeds including annual grasses. Post emergence herbicides Propaquizafop 10% EC @ 200-300 ml/ac to control grasses and Pyrithiobac sodium @ 250 ml/ac to control broad leaf weeds can be used depending upon necessity when intercultivation or hoeing is not possible due to continuous rains. Paraquat @ 1 L/ac as post-emergence would give good control of weeds in later stages and thereby increasing the seed cotton yields.
1	specific to the Variety/ Hybrid  Commercial attributes  Yield of kapas/ha (Average)	pre-emergence herbicide to control nearly 75% of weeds including annual grasses. Post emergence herbicides Propaquizafop 10% EC @ 200-300 ml/ac to control grasses and Pyrithiobac sodium @ 250 ml/ac to control broad leaf weeds can be used depending upon necessity when intercultivation or hoeing is not possible due to continuous rains. Paraquat @ 1 L/ac as post-emergence would give good control of weeds in later stages and thereby increasing the seed cotton yields.  5-7 q/ac in south and central zone under irrigated condition and 3-5 q/ac in south and central zone under rainfed condition  1.5-2.0 q/ac in south and central zone under irrigated condition and 1.0-1.5 q/ac in south and central zone

5	a) Colour	White
	b) Length (2.5% Span Length (mm)	Medium long (25.0 - 27.0 mm)
	c) Strength (8/tex)	Strong (21.0 - 24.0 g/tex)
	d) Fineness (Micronaire Value)	Fine (3.0-3.9)
	e) Uniformity (%)	Excellent (>47%)
	f) Maturity (%)	Very good (>81%)
	Plant Height (cm) Average	Medium tall (91-120 cm)
6	Reaction against major diseases and	Tolerance to jassids and moderate tolerance to thrips
	pests	
7	Reaction to major abotic stresses	Drought tolerant
	like drought, heat, salinity etc.	

37. Application No. ED11 GH93 8 327 filed on 07.04.2008 by **JK Agri Genetics** Ltd, 1-10-177, 4<sup>th</sup> Floor, Varun Towers, Begumpet, Hyderabad-500016 for Essential Derived Variety (EDV) of crop Tetraploid Cotton (*Gossypium hirsutum* L.) having denomination **JK ISHWAR** (**JKCH 634**) Bt has been accepted and given registration number -----NA -------NA --------

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi – 110 012.

**Passport data of the variety** : JK ISHWAR (JKCH 634) Bt

**Applicant** : JK Agri Genetics Ltd.

**Address of the applicant** : 1-10-177, 4<sup>th</sup> Floor, Varun Towers, Begumpet, Hyderabad-

500016

Nationality of applicant : Indian

**Application details** 

**a**. Number : ED11 GH93 8 327

**b.** Date of receipt : 07.04.2008 **c.** Date of acceptance : 28.11.2018

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : JK ISHWAR (JKCH 634) Bt

**Type of variety** : EDV

Classification of variety : Transgenic & Hybrid

**Previously proposed** 

**Denomination** : Not applicable

Name of parental material : JKC 720 x JKC 745-Bt (syn. JKC725).

**Source of parental material** : Own germplasm

Name of Initial Varieties : JK ISHWAR (JKCH 634), (2008/336)

A. Group characteristic	Remarks (measured values/example variety etc.)
Leaf: Shape (Characteristic 8)	Palmate (normal)

Flowe	r: Petal colour (Characteristic 15)	Yellow
	r: Pollen colour (Characteristic 19)	Yellow
Boll:	Shape (longitudinal section)	Round
	acteristic 23)	
	Length (2.5% span length) (mm)	Long
	acteristic 33)	
`	stinct characteristics of candidate	Insertion of <i>CryIAc</i> gene (Mon 531 Event) into JK
	y: (Trait of derivation)	ISHWAR (JKCH 634) Bt and it has resistance to
variet	y. (Trait of defivation)	bollworm.
D. Da	ate of commercialization of the	
variet	y	
E. Ag	ronomic and commercial attributes	
S.no.	Agronomic attributes	Details
1.	Growth habit	Indeterminate
	(Determinate/Indeterminate)	
2.	Days to flowering/Anthesis	55-60
	(average)	150 160
3.	Days to physiological maturity	150-160
4.	(average) Seed rate per ha	1.8 to 2.2 kg
5.		to attain potential yield and time of application
J.	Organic (per ha)	Organic manure@ 4 tons/ac
	Inorganic (per ha)	N : P : K
	morganie (per nu)	Irrigated: 120 : 60 : 60 kg/ha
		Rainfed: 80:40:40 kg/ha
	Other fertilizers (Per ha)	-
6.	Spacing (cm) requirement to attain po	ptential yield
	Row to row (cm)	120
	Plant to plant (cm)	60
7.	Soil requirements to attain the	Heavy clay to light sandy soils
8.	potential yield Plant protection measures to attain	Jassid - 50 ml Super Confidor (Imidacloprid
8.	the potential yield (per acre)	30.5% SC), 40 g Admire (Imidacloprid 70% WG)
	the potential yield (per acre)	Thrips - 400 ml Regent (Fipronil 5% SC), 25 g
		Jump (Fipronil 80% WG)
		Aphids - 100 ml Confidor (Imidacloprid 20.0
		SL), 30 g <b>Pride</b> (Acetamiprid 20 SP)
		Para wilt - 350-400 g Carbendazim or 350-400 g
9.	Sowing window requirement to attain potential yield (Zone wise)	15 <sup>th</sup> June to 15 <sup>th</sup> July
10	• • • • • • • • • • • • • • • • • • • •	Irrigation should be given at an interval of 20.25
10.	Number of irrigations required to attain potential yield	Irrigation should be given at an interval of 20-25 days
11.	The best growing season to attain	Kharif
1	the potential yield (Zone wise)	
12.	Name the cropping/climatic zone of	Central and South
	india in which the varietal/hybrid	
	trials were conducted	
		98

13.	Intercultural operations (including	Deep ploughing in earlier stage of the crop
	training, prunning & nipping)	whereas shallow ploughing in later stage of the
		crop
14.	Any other relevant information	Suitable for both Rainfed and irrigated.
	specific to the variety/hybrid	
	Commercial attributes	
1.	Yield of Kapas/ha (Average)	13-14 q/ac
2.	Yield of Lint/ha (Average)	5-6 q/ac

38. Application No. ED17 GH98 8 332 filed on 07.04.2008 by **JK Agri Genetics Ltd., 1-10-177, 4<sup>th</sup> Floor, Varun Towers, Begumpet, Hyderabad-500016** for Essential Derived Variety (EDV) of crop **Tetraploid Cotton** (*Gossypium hirsutum* L.) having denomination **JKCH 226 Bt** has been accepted and given registration number -----NA -------NA -------

The convention application no.----NA-----, in respect of the said variety has been filed on -----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi – 110 012.

**Passport data of the variety** : JKCH 226 Bt

**Applicant** : JK Agri Genetics Ltd.

**Address of the applicant** : 1-10-177, 4<sup>th</sup> Floor, Varun Towers, Begumpet, Hyderabad-

500016

Nationality of applicant : Indian

**Application details** 

**a**. Number : ED17 GH98 8 332

b. Date of receipt : 07.04.2008c. Date of acceptance : 28.11.2018

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : JKCH 226 Bt

**Type of variety** : EDV

Classification of variety : Transgenic & Hybrid

Previously proposed

**Denomination** : Not applicable

Name of parental material : JKC 764 (syn. JKC719) x JKC 703.

**Source of parental material** : Own germplasm

Name of Initial Varieties : JKCH 226, (2008/343)

tariety description.	
A. Group characteristic	Remarks (measured values/example variety etc.)
Leaf: Shape (Characteristic 8)	Palmate (normal)
Flower: Petal colour (Characteristic 15)	Yellow
Flower: Pollen colour (Characteristic 19)	Cream
Boll: Shape (longitudinal section)	Ovate
(Characteristic 23)	
Fibre: Length (2.5% span length) (mm)	Medium Long

(Charac	eteristic 33)	
`	cinct characteristics of candidate	Insertion of <i>Cry1Ac</i> gene (Mon 531 Event) into
	: (Trait of derivation)	JKCH 226 Bt and it has resistance to bollworm.
	te of commercialization of the	13.06.2007
variety		13.00.2007
	onomic and commercial attributes	
S. no.	Agronomic attributes Growth habit	Details  Indictorrain at a
1.	Growth habit (Determinate/Indeterminate)	Indeterminate
2.	,	55-60
۷.	Days to flowering/Anthesis (average)	33-00
3.	Days to physiological maturity	150-160
٥.	(average)	130-100
4.	Seed Rate Per ha	1.8 to 2.2 kg
5.		e to attain potential yield and time of application
<i>J</i> .	Organic (per ha)	Organic manure@ 4 tones/Ha
	Inorganic (per ha)	N:P:K
	morgame (per na)	Irrigated: 120: 60: 60 kg/ha
		Rainfed: 80: 40 : 40 kg/ha
	Other fertilizers (per ha)	-
6.	Spacing (cm) requirement to attain	potential vield
	Row to row (cm)	120
	Plant to plant (cm)	60
7.	Soil requirements to attain the	Heavy clay to light sandy soils
	potential yield	and y and g and any are a
8.	Plant protection measures to	Jassid - 50 ml Super Confidor (Imidacloprid 30.5%
	attain the potential yield (per	SC), 40 g Admire (Imidacloprid 70% WG),
	acre)	Thrips - 400 ml Regent (Fipronil 5% SC), 25 g
		Jump (Fipronil 80% WG)
		<b>Aphids</b> - 100 ml <b>Confidor</b> (Imidacloprid 20.0 SL),
		30 g <b>Pride</b> (Acetamiprid 20 SP)
		Para wilt-350-400g Carbendazim or 350-400 g COC
9.	Sowing window requirement to	15 <sup>th</sup> June to 15 <sup>th</sup> July
	attain potential yield	
	(Zone wise)	
10.	Number of irrigations required to	Irrigation should be given at an interval of 20-25
	attain potential yield	days
11.	The best growing season to attain	Kharif
10	the potential yield (Zone wise)	Control and Courth Zama
12.	Name the cropping/Climatic Zone of India in which the	Central and South Zone
	varietal/Hybrid trials were	
	conducted trials were	
13.	Intercultural operations (including	Deep ploughing in earlier stage of the crop whereas
13.	Training, Prunning & Nipping)	shallow ploughing in later stage of the crop.
14.	Any other relevant information	Suitable for both Rainfed and irrigated, highly
	specific to the variety/Hybrid	responds to added fertilizers
	Commercial attributes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
·		

1.	Zone-Wise Yield Potential (Average) per ha (q/Ha) (if applicable)	-
2.	Yield of Kapas/Ha (Average)	12 to 13 q/ac
	Yield of Lint/Ha (Average)	4-5 g/ac

39. Application No. ED16 GH95 8 329 filed on 07.04.2008 by **JK Agri Genetics Ltd., 1-10-177, 4<sup>th</sup> Floor, Varun Towers, Begumpet, Hyderabad-500016** for Essential Derived Variety (EDV) of crop **Tetraploid Cotton** (*Gossypium hirsutum* L.) having denomination **JK VARUN** (**JKCH 555**) **Bt** has been accepted and given registration number -----NA -------- NA -------

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi – 110 012.

Passport data of the variety : JK VARUN (JKCH 555) Bt

**Applicant** : JK Agri Genetics Ltd.

**Address of the applicant** : 1-10-177, 4<sup>th</sup> Floor, Varun Towers, Begumpet, Hyderabad-

500016

Nationality of applicant : Indian

**Application details** 

a. Number : ED16 GH95 8 329

**b.** Date of receipt
 : 07.04.2008

 **c.** Date of acceptance
 : 28.11.2018

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : JK VARUN (JKCH 555) Bt

**Type of variety** : EDV

Classification of variety : Transgenic & Hybrid

Previously proposed

**Denomination**: Not applicableName of parental material: NC-113 x NC-71BtSource of parental material: Own germplasm

Name of Initial Varieties : JK VARUN, (2008/345)

A. Group characteristic	Remarks (measured values/example variety etc.)
Leaf: Shape (Characteristic 8)	Palmate (normal)
Flower: Petal colour (Characteristic 15)	Cream
Flower: Pollen colour (Characteristic 19)	Cream
Boll: Shape (longitudinal section)	Round
(Characteristic 23)	
Fibre: Length (2.5% span length) (mm)	Long
(Characteristic 33)	

D D:	stingt abayactoristics of condidate	Incented am IAC (Man 521 Events) gang into NC
	stinct characteristics of candidate	Inserted <i>cry1AC</i> (Mon 531 Events) gene into NC
variet	y: (Trait of derivation)	JK VARUN (JKCH 555) Bt and it has resistance to
D D		lepidoptara insect.
	ate of commercialization of the	13.06.2007
variet	y ronomic and commercial attributes	
S.no.	Agronomic attributes	Details
1.	Growth habit	Indeterminate
2	(Determinate/Indeterminate)	52.50
2.	Days to flowering/Anthesis	53-58
2	(Average)	150 160
3.	Days to physiological maturity	150-160
4	(Average)	10, 221
4.	Seed Rate Per ha	1.8 to 2.2 kg
5.		e to attain potential yield and time of application
	Organic (per ha)	Organic manure @ 4 tons/ac
	Inorganic (per ha)	N : P : K
		Irrigated: 120: 60 : 60 kg/ha
		Rainfed: 80: 40 : 40 kg/ha
	Other fertilizers (per ha)	
6.	Spacing (cm) requirement to attain j	
	Row to row (cm)	120
	Plant to plant (cm)	60
7.	Soil requirements to attain the	Heavy clay to light sandy soils
	potential yield	
8.	Plant protection measures to attain	Jassid - 50 ml Super Confidor (Imidacloprid 30.5%
	the potential yield (per acre)	SC), 40 g Admire (Imidacloprid 70% WG)
		Thrips - 400 ml Regent (Fipronil 5% SC), 25 g
		Jump (Fipronil 80% WG)
		Aphids - 100 ml Confidor (Imidacloprid 20.0 SL),
		30 g Pride (Acetamiprid 20 SP)
		Para wilt - 350-400g Carbendazim or 350-400 g
		COC
9.	Sowing window requirement to	15 <sup>th</sup> June to 15 <sup>th</sup> July
	attain potential yield	
10	(Zone wise)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10.	Number of irrigations required to	Irrigation should be given at an interval of 20-25
11	attain potential yield	days
11.	The best growing season to attain	Kharif
10	the potential yield (Zone wise)	Control and Courth 7-
12.	Name the cropping/Climatic Zone	Central and South Zone
	of India in which the	
	varietal/Hybrid trials were	
12	Intercultural operations (including	Doon ploughing in continuous of the area whereas
13.	Intercultural operations (including	Deep ploughing in earlier stage of the crop whereas
1.4	Training, Prunning & Nipping)	shallow ploughing in later stage of the crop.
14.	Any other relevant information	Suitable for both Rainfed and irrigated, highly
	specific to the variety/Hybrid	responds to added fertilizers
	Commercial attributes	

1.	Zone Wise Yield Potential (Average) per ha (q/Ha) (if applicable)	-
2.	Yield of Kapas/ac (Average)	13 to 14 q/ac
	Yield of Lint/ac (Average)	5 to 6 q/ac

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi – 110 012.

Passport data of the variety : Mallika BG II (NCS 207 BG II)

**Applicant** : Nuziveedu Seeds Ltd.

Address of the applicant : NSL ICON, No.8-2-684/2/A, Plot No. 1 to 4, 4<sup>th</sup> floor,

Opp. ICICI Bank, Road No. 12, Banjara Hills, Hyderabad-

500034

Nationality of applicant : Indian

**Application details** 

**a.** Number : ED2 GH152 8 486

**b**. Date of receipt : 05.11.2008 **c**. Date of acceptance : 28.11.2018

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : Mallika BG II (NCS 207 BG II)

**Type of variety** : EDV

Classification of variety : Transgenic & Hybrid

Previously proposed

**Denomination** : Not applicable

Name of parental material : (NC- 108 Bt x NC-102).

**Source of parental material** : Own germplasm **Name of Initial Varieties** : NCS-207, (2008/411)

A. Group characteristic	Remarks (measured values/example variety etc.)
Leaf: Shape (Characteristic 8)	Palmate (normal)
Flower: Petal colour (Characteristic 15)	Cream
Flower: Pollen colour (Characteristic 19)	Yellow
Boll: Shape (longitudinal section)	Ovate
(Characteristic 23)	
Fibre: Length (2.5% span length)(mm)	Extra Long

(Characteristic 33)	
B. Distinct characteristics (Trait of derivation)	Insertion of <i>Cry1Ac</i> and <i>Cry2Ab</i> gene (Mon 15985 Event) into Mallika BG II (NCS 207 BG II) and it has resistance to bollworm.
D. Date of commercialization of the variety	04.07.2008

S.No.	Agronomic attributes	Details							
1	Growth habit	Semi spreading	and in	dete	rmina	ate			
	(Determinate/Indeterminate)								
2	Days to flowering/Anthesis (average)	Medium (50-60	days)						
3	Days to physiological maturity (average)	160-170 days							
4	Seed rate per ha	750g – 1.0 kg							
5	Recommended nutrition/ha schedule to	Fertilizer man	agem	ent:	To	apply	FY	Мо	r
	attain potential yield and time of application:  Organic (per ha)	before final harr	owing	g and	sowi	ing.	our v	week	S
	Inorganic (per ha)	Fertilizer recor	nmen	aauc	)n (K	g/na)			
	Other fertilizers (per ha)		Irrig	gated		Rair	ıfed		
			N	P	K	N	P	K	
		Basal dose (at sowing)	60	50	25	60	40	20	=
		1 <sup>st</sup> Top dressing (25 DAS)*	30	25	25	30	20	20	-
		2 <sup>nd</sup> Top dressing (50 DAS)*	30	-	25	30	-	20	-
		Total Requirement	150	75	75	120	60	60	=
		* DAS – Days A	fter So	owing	g			ı	1
		Micronutrients	<b>::</b>						
		Spray GA Lead g/ac at 70 days sowing. Soil ap be done @ 8 kg.	and 10 plicat	000 g	g/ac a	it 100	days	afte	r
6	Spacing (cm) requirement to attain potential yield		ils of	•		•			
	Agronomic and commercial								
attribu	utes								

	Row to row	Black Cotton soils of Vidarbha and Marathwada (Maharashtra): 4 x 1.5 ft or 3 x 2 ft or 3.5 x 1.5 ft
	Plant to plant	Andhra Pradesh and Telangana – Heavy soils - 3.5 x 2 ft, Medium soils – 3.5 x 1.5 ft or 3 x 1.5 ft
7	Soil requirements to attain the potential yield	Karnataka – Heavy soils 3 x 3 ft or 4 x 2 ft, Medium soils 3 x 2 ft  Tamilnadu and Orissa – Heavy soils 3.5 x 2.5 ft, Medium soils – 3 x 2 ft  Optimum plant population should be maintained by gap filling as minimum standard for germination is 75% under the seeds Act, 1966 and rules thereof.
8	Plant protection measures to attain the potential yield	Plant Protection: To protect crop against sucking pests i.e. Aphids and Jassids with Clothianidin 15 to 20 g/ac, Buprofezin 120 to 160 ml/ac, Acetamiprid 20-40 g/ac or Imidachloprid 50-100ml/ac or flonicamid 60 ml/ac. To control Thrips, spray Thiomethoxam 40-50 g/ac or Fipronil 600-800 ml/ac, flonicamide 60ml/ac. To control white flies, spray Difenthiuron 250 gm/ac, For control of mealy bugs, spray Profenophos or Quinolphos 400-600 ml/ac. If infestation of bollworms found above economic threshold levels, it is necessary to control bollworms with chemicals such as, quinolphos 600 to 800 ml/ac, Chlorpyriphos 600 ml/ac, thiodcarb 800 g/ac, profenophos 600 ml/ac, cypermethrin 240 ml/ac, chlorantraniliprole 18.5% SC 60 ml/ac (Chloratranilprole (10%) + Lambdacyhalothrin (5%) ZC) 80-100 ml/ac, Spinosad 100 ml/ac, Emamectin benzoate 80 ml/ac.
		Disease Management
		It is advisable to take up 1 or 2 prophylactic spraying after 90-100 days of crop growth with fungicide like Metalaxyl Mancozeb, Carbendazim, Copper oxychloride and Streptocyclin or the combination of these for prevention/control of diseases like <i>Grey mildew, Alternaria, Cercospora leaf spot, Bacterial Blight etc.</i> As an alternate to chemical fungicide, the usage of bio fungicide like Trichoderma, Pseudomonas is also recommended. Propiconazole, hexaconazole,

		cyproconazole are effective broad-spectrum fungicides which can be used in the management of grey mildew, Alternaria leaf spot.
9	Sowing window requirement to attain potential yield (Zone wise)	Second week of June to first week of July.
10	Number of irrigations required to attain potential yield	Water Management: On black soils, 5-6 irrigations are commonly required at the interval of 20 days. On red/light/sandy loam soils with low water retention capacity, 8-10 irrigations may be required at the interval of 15 days.
11	The best growing season to attain the potential yield (zonewise)	Kharif in South zone and Central zone
12	Name the cropping/Climatic Zone of India in wich the variety Hybrid trials were conducted	South and Central zone
13	Intercultural operations (including training, prunning & nipping	Weed Management: Three to four inter cultivations (hoeing) at 15 days interval after 30 days of sowing. Under rain fed condition, hand weeding/hoeing helps in keeping the plot free from weeds. Pendimethalin @ 1 L/ac is effective pre-emergence herbicide to control nearly 75% of weeds including annual grasses. Post emergence herbicides Propaquizafop 10% EC @ 200-300 ml/ac to control grasses and Pyrithiobac sodium @ 250 ml/ac to control broad leaf weeds can be used depending upon necessity when intercultivation or hoeing is not possible due to continuous rains. Paraquat @ 1 L/ac as post-emergence would give good control of weeds in later stages and thereby increasing the seed cotton yields.
	Commercial attributes	C
1	Yield of kapas/ha (Average)	12-14 q/ac in south and central zone under irrigated condition and 8-10 q/ac in south and central zone under rainfed condition
2	Yield of lint/ha (Average)	4-5 q/ac in south and central zone under irrigated condition and 2.8-3.5 q/ac in south and central zone under rainfed condition
3	Ginning(%)	High (35-36)
4	Fibre Traits:	
5	a) Colour	White
	b) Length (2.5% Span Length (mm)	Long (27.5-32.0 mm)
		Medium 21.0-24.0 g/tex
	c) Strength (g/tex)	Medium 21.0-24.0 g/tex

	e) Uniformity (%)	Excellent (> 47)
	f) Maturity (%)	Very good (> 81)
	Plant Height (cm) Average	Very tall (> 150)
6	Reaction against major diseases and pests	Moderately Tolerant to bacterial blight, grey mildew and alternaria. Slightly susceptible to jassids in early stages of growth. Moderately tolerant to whiteflies.
7	Reaction to major abotic stresses like drought, heat, salinity <i>etc</i> .	It can withstand excess rainfall.

41. Application No. N42 GH 49 13 126 filed on 07.03.2013 by Nuziveedu Seeds Ltd., Survey No. 69, Gundlapochampally (Vill. & Panchayat), Medchal-Mandal, Rangareddy- Dist-501401 for a New variety of crop Tetraploid Cotton (Gossypium hirsutum L.) having denomination NC-811 (GMS) has been accepted and given registration number ------NA -------NA -------

The convention application no. ----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi – 110 012.

**Passport data of the variety** : NC-811 (GMS), **Applicant** : Nuziveedu Seeds Ltd.

**Address of the applicant**: Survey No. 69, Gundlapochampally (Vill. & Panchayat),

Medchal-Mandal, Rangareddy- Dist-501401

Nationality of applicant : Indian

**Application details** 

a. Number : N42 GH 49 13 126

**b.** Date of receipt : 07.03.2013

**c**. Date of acceptance :

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : NC-811 (GMS),

**Type of variety** : New

Classification of variety : Inbred parental line

Previously proposed

**denomination** : Not applicable

Name of parental material : Parent 1: PCGP -707, Parent 2: PCGP -944

**Source of parental material** : Own germplasm

Name of reference varieties : G Cot 12, PKV- RAJATA

A. Group characteristics	Remarks (measured values/example varieties etc.)
Leaf: Shape (Characteristic 8)	Palmate
Flower: Petal colour (Characteristic 15)	Yellow
Flower: Pollen colour (Characteristic 19)	Cream

Boll: S	Shape (Characteristic 23)	Ovate							
Fibre: Length (Characteristic 33)		Medium long							
<ul> <li>B. Distinct characteristics of candidate v NC-811 (GMS) has distinguishing characteristics of reference value.</li> <li>C. Distinct characteristics of reference value.</li> <li>G Cot 12, PKV- RAJATA has character.</li> </ul>		ariety:							
cream D Dat	te of commercialization of the vari	ety							
	ronomic and commercial attribute	•							
S.No.	Agronomic attributes	Details							
1	Growth habit (Determinate/Indeterminate)	Semi spreading (31	-60 c	cm) a	nd ir	idete	rmin	ate	
2	Days to flowering/Anthesis (Average)	Medium (50-60 day	rs)						
3	Days to physiological maturity (Average)	150-165 days							
4	Seed rate per ha	2-3 kg/ac							
5	Recommended nutrition/ha schedule to attain potential yield and time of application:  Organic (per ha)  Inorganic (per ha)  Other fertilizers (per ha)					forenely tion			
			Irr	igate	d	Rai	infed	l	
			N	P	K	N	P	K	
		Basal dose (at sowing)	50	20	20	25	25	25	
		1 <sup>st</sup> Top dressing (25 DAS)*	25	15	15	25	-	-	-
		Total Requirement	75	35	35	50	25	25	
		* DAS – Days After	Sow	ing	1				J
		Micronutrients:							
		Spray GA Leader @ at 70 days and 100		_			•	•	_

6	Spacing (cm) requirement to attain potential yield	Deep Black soils of Gujrat, Madhya Pradesh and Khandesh region of Maharashtra: 90 x 60 cm or 90 x 45 cm
	Row to row	Black Cotton soils of Vidarbha and Marathwada (Maharashtra): 90 x 45cm or 90 x 60 cm or 90 x 30 cm
	Plant to plant	Andhra Pradesh and Telangana – Heavy soils – 90 x 60 cm or 90 x 45 cm, Medium soils – 90 x 45 cm or 90 x 60 cm or 90 x 30 cm or 75 x 30 cm
7	Soil requirements to attain the potential yield	Karnataka – Heavy soils 90 x 60 cm or 90 x 45 cm, Medium soils 90 x 45 cm or 90 x 60 cm or 90 x 30 cm
		Tamilnadu and Orissa – Heavy soils 90 x 60 cm or 90 x 45 cm, Medium soils – 90 x 45 cm or 90 x 60 cm or 90 x 30 cm
8	Plant protection measures to attain the potential yield	Plant Protection: To protect crop against sucking pests i.e Aphids and Jassids with Clothianidin 15-20 g/ac, Buprofezin 120-160 ml/ac, Acetamiprid 20-40 g/ac or Imidachloprid 50-100 ml/ac or flonicamid 60 ml/ac. To control Thrips, spray Thiomethoxam 40-50 g/ac or Fipronil 600-800 ml/ac, flonicamide 60 ml/ac. To control white flies, spray Difenthiuron 250 g/ac, For control of mealy bugs, spray Profenophos or Quinolphos 400-600 ml/ac. If infestation of bollworms found above economic threshold levels, it is necessary to control bollworms with chemicals such as, quinolphos 600-800 ml/ac, Chlorpyriphos 600 ml/ac, thiodcarb 800 g/ac, profenophos 600 ml/ac, cypermethrin 240 ml/ac, chlorantraniliprole 18.5% SC 60 ml/ac (Chloratranilprole (10%) + Lambdacyhalothrin (5%) ZC) 80-100 ml/ac, Spinosad 100 ml/ac, Emamectin benzoate 80 ml/ac.
		Disease Management
		It is advisable to take up 1 or 2 prophylactic spraying after 90-100 days of crop growth with fungicide like Metalaxyl Mancozeb, Carbendazim, Copper oxychloride and Streptocyclin or the combination of these for prevention/control of diseases like <i>Grey mildew</i> , <i>Alternaria</i> , <i>Cercospora leaf spot</i> , <i>Bacterial Blight etc</i> . As an alternate to chemical fungicide, the usage of bio fungicide like Trichoderma, Pseudomonas is also recommended. Propiconazole, hexaconazole, cyproconazole are effective broad-spectrum fungicides which can be used in the management of grey mildew, Alternaria

		leaf spot.
9	Sowing window requirement to attain potential yield (Zone wise)	Second week of June to first week of July.
10	Number of irrigations required to attain potential yield	Water Management: On black soils, 5-6 irrigations are commonly required at the interval of 20 days. On red/light/sandy loam soils with low water retention capacity, 8-10 irrigations may be required at the interval of 15 days.
11	The best growing season to attain the potential yield (zonewise)	Kharif in South zone and Central zone
12	Name the cropping/Climatic Zone of India in wich the variety Hybrid trials were conducted	South and Central zone
13	Intercultural operations (including training, prunning & nipping	Weed Management: During critical crop growth upto 60 days, fields should be weed free. Three to four inter cultivations (hoeing) at 15 days interval after 30 days of sowing. Under rainfed condition, hand weeding/hoeing helps in keeping the plot free from weeds. Pendimethalin (a) 1 L/ac is effective pre-emergence herbicide to control nearly 75% of weeds including annual grasses. Post emergence herbicides Propaquizafop 10% EC @ 200-300 ml/ac to control grasses and Pyrithiobac sodium @ 250 ml/ac to control broad leaf weeds can be used depending upon necessity when intercultivation or hoeing is not possible due to continuous rains. Paraquat @ 1 L/ac as post-emergence would give good control of weeds in later stages and thereby increasing the seed cotton yields.
14	Any other relevant information specific to the Variety/ Hybrid	
	Commercial attributes	
1	Yield of Kapas/Ha (Average)	6-8 q/ac in south and central zone under irrigated condition and 4-6 q/ac in south and central zone under rainfed condition
2	Yield of Lint/Ha (Average)	2.0-2.5 q/ac in south and central zone under irrigated condition and 1.5-2.0 q/ac in south and central zone under rainfed condition
3	Ginning(%)	Medium (33-34)
4	Fibre Traits:	
5	a) Colour	White
	b) Length (2.5% Span Length (mm)	Long (27.5-32.0 mm)
	c) Strength (8/tex)	Strong (25.0-28.0 g/tex)
	d) Fineness (Micronaire Value)	Medium (4.0-4.9)
	e) Uniformity (%)	Excellent (> 47%)

	f) Maturity (%)	Very good (> 81%)
	Plant Height (cm) Average	Tall (121-150)
6	Reaction against major diseases	Moderatetolerance to jassids and thrips
	and pests	

The convention application no.----NA-----, in respect of the said variety has been filed on ----NA-----, in ---NA-----.

Appropriate office for the opposition of proceeding under Rule 29, of the Protection of Plant Varieties and Farmers' Rights Rules, 2003 is Office of the Registrar, PPV&FR Authority, New Delhi – 110 012.

Passport data of the variety : NC-1108 Bt

**Applicant** : Nuziveedu Seeds Pvt Ltd.

Address of the applicant : NSL ICON, No.8-2-684/2/A, Plot No. 1 to 4, 4<sup>th</sup> Floor,

Opp. ICICI Bank, Road No. 12, Banjara Hills, Hyderabad-

500034 : Indian

Nationality of applicant

**Application details** 

**a.** Number : ED16 GH135 9 253

 b. Date of receipt
 : 11.05.2009

 c. Date of acceptance
 : 28.11.2018

**Crop** (**Taxonomical lineage**) : Tetraploid Cotton (*Gossypium hirsutum* L.)

**Denomination** : NC-1108 Bt

**Type of variety** : EDV

Classification of variety : Transgenic (Parental Line) (NC-1108Bt is one of the

parental lines of NCS - 990 Bt, Acknowledgement No.

REG/2008/491)

**Previously proposed** 

**denomination** : Not applicable

Name of parental material : NC-1108 x NC-71Bt.

**Source of parental material** : R&D Nuziveedu Seeds Ltd.

Name of initial varieties : NC 1108, (2009/215)

A. Group characteristic	Remarks (measured values/ example variety
	etc.)
Leaf: Shape (Characteristic 8)	Palmate (normal)
Flower: Petal colour (Characteristic 15)	Cream
Flower: Pollen colour (Characteristic 19)	Cream

Boll: (Chara	Shape (longitudinal section) cteristic 23)	Round						
	Length (2.5% span length) (mm) cteristic 33)	Long						
`	istinct characteristic (Trait of	Insertion of Cry 1A	c ger	ne (M	Ion 5	31 E	vent)	into
deriva	tion)	NC-1108 Bt and it	_	•			,	
D. Da	nte of commercialization of the	30-06-2007						
variety	y							
E. Agr	conomic and commercial attributes							
S.No.	Agronomic attributes	Details						
1	Growth habit	Semi spreading (3)	1-60	cm) a	ınd iı	ndete	rmina	ate
_	(Determinate/Indeterminate)							
2	Days to flowering/Anthesis	Medium (50- 60 da	ys)					
3	(Average)  Days to physiological maturity	150-165 days						
3	(Average)	150-105 days						
4	Seed rate per ha	2-3 kg/ac						
5	Recommended nutrition/ha	Fertilizer manage	emen	t: [	Го а	pply	FYN	or I
	schedule to attain potential yield	compost @ 5-10						
	and time of application:	before final harrow	ing a	nd so	wing	<b>z</b> .		
		Fertilizer recomm	enda	tion	( <b>kg</b> /l	ha)		
		Irrigated Rainfed						
			N	P	K	N	P	K
		Basal dose (at sowing)	50	20	20	25	25	25
		1 <sup>st</sup> Top dressing (25 DAS)*	25	15	15	25	-	-
		Total	75	35	35	50	25	25
		Requirement						
		* DAS – Days After	Sow	ing				
	Organic (per ha)	Micronutrients:						
	Inorganic (per ha)		~ <b>~</b>	20	,	40		<b>5.5</b> 0
	Other fertilizers (per ha)	Spray GA Leader	@ 5(	JU g/	ac at	t 40 i	days,	
	Other returnzers (per na)	_ * *		_			1	
	Other returnzers (per na)	g/ac at 70 days and	1 100	0  g/a		100		
	Other returnzers (per na)	g/ac at 70 days and sowing to avoid m	d 100 nicror	0 g/a nutrie	ent d	100 eficie	ency.	Soil
	Other returnzers (per na)	g/ac at 70 days and	d 100 nicror	0 g/a nutrie	ent d	100 eficie	ency.	Soil
6	Spacing (cm) requirement to attain	g/ac at 70 days and sowing to avoid mapplication of GA kg/ac.  Row to row and P	d 100 nicror leade	0 g/a nutrie er alse	ent d o car ant s	100 eficient be open	ency. done g ma	Soil @ 8
6		g/ac at 70 days and sowing to avoid mapplication of GA kg/ac.	d 100 nicron leade lant t soil	0 g/a nutrie er alse to pla	ent d o car ant sj ure,	100 eficient be of pacin fertili	ency. done g ma	Soil @ 8  ay be tatus,

	Row to row	crop rotation etc
		crop rotation <i>etc</i> .  Deep Black soils of Gujrat, Madhya Pradesh and Khandesh region of Maharashtra: 90 x 60
	Plant to plant	cm or 90 x 45 cm Black Cotton soils of Vidarbha and Marathwada (Maharashtra): 90 x 45 cm or 90 x 60 cm or 90
7	Soil requirements to attain the potential yield	x 30 cm Andhra Pradesh and Telangana – Heavy soils – 90 x 60 cm or 90 x 45 cm, Medium soils – 90 x 45 cm or 90 x 60 cm or 90 x 30 cm or 75 x 30 cm.  Karnataka – Heavy soils 90 x 60 cm or 90 x 45 cm, Medium soils 90 x 45 cm or 90 x 60 cm or 90 x 30 cm.  Tamilnadu and Orissa – Heavy soils 90 x 60 cm or 90 x 45 cm, Medium soils – 90 x 45 cm or 90 x 60 cm or 90 x 30 cm.
8	Plant protection measures to attain the potential yield	Plant Protection: To protect crop against sucking pests i.e Aphids and Jassids with Clothianidin 15-20 g/ac, Buprofezin 120-160 ml/ac, Acetamiprid 20-40 g/ac or Imidachloprid 50-100 ml/ac or flonicamid 60 ml/ac. To control Thrips, spray Thiomethoxam 40 -50 g/ac or Fipronil 600-800 ml/ac, flonicamide 60ml/ac. To control white flies, spray Difenthiuron 250 g/ac, For control of mealy bugs, spray Profenophos or Quinolphos 400-600 ml/ac. If infestation of bollworms found above economic threshold levels, it is necessary to control bollworms with chemicals such as, quinolphos 600-800 ml/ac, Chlorpyriphos 600 ml/ac, thiodcarb 800 g/ac, profenophos 600 ml/ac, cypermethrin 240 ml/ac, chlorantraniliprole 18.5% SC 60 ml/ac (Chloratranilprole (10%) + Lambdacyhalothrin (5%) ZC) 80-100 ml/ac, Spinosad 100 ml/ac, Emamectin benzoate 80 ml/ac.
		Disease Management
		It is advisable to take up 1 or 2 prophylactic spraying after 90-100 days of crop growth with fungicide like Metalaxyl Mancozeb, Carbendazim, Copper oxychloride and Streptocyclin or the combination of these for prevention / control of diseases like <i>Grey mildew, Alternaria, Cercospora leaf spot, Bacterial Blight etc.</i> As an alternate to chemical fungicide, the usage of bio fungicide like

		Trichoderma, Pseudomonas is also recommended. Propiconazole, hexaconazole, cyproconazole are effective broad-spectrum fungicides which can be used in the management of grey mildew, Alternaria leaf spot.
9	Sowing window requirement to attain potential yield (Zone wise)	Second week of June to first week of July.
10	Number of irrigations required to attain potential yield	Water Management: On black soils, 5-6 irrigations are commonly required at the interval of 20 days. On red/light/sandy loam soils with low water retention capacity, 8-10 irrigations may be required at the interval of 15 days.
11	The best growing season to attain the potential yield (zonewise)	Kharif in South zone and Central zone
12	Name the cropping/Climatic Zone of India in wich the variety Hybrid trials were conducted	South and Central zone
13	Intercultural operations (Including Training, Prunning & Nipping	Weed Management: Three to four inter cultivations (hoeing) at 15 days interval after 30 days of sowing. Pendimethalin (a) 1 L/ac is effective pre-emergence herbicide to control nearly 75% of weeds including annual grasses. Post emergence herbicides Propaquizafop 10% EC @ 200-300 ml/ac to control grasses and Pyrithiobac sodium @ 250 ml/ac to control broad leaf weeds can be used depending upon necessity when intercultivation or hoeing is not possible due to continuous rains. Paraquat @ 1 L/ac as post-emergence would give good control of weeds in later stages and thereby increasing the seed cotton yields.
14	Any other relevant information specific to the Variety/ Hybrid	
	Commercial attributes	
1	Yield of Kapas/Ha (Average)	6-8 q/ac in south and central zone under irrigated condition and 4-6 q/ac in south and central zone under rainfed condition
2	Yield of Lint/Ha (Average)	2.2-3.0 q/ac in south and central zone under irrigated condition and 1.5-2.2 q/ac in south and central zone under rainfed condition
3	Ginning(%)	Very high (>37%)
4	Fibre Traits:	
5	a) Colour b) Length (2.5% Span Length (mm)	White Medium long (25.0-27.5 mm)

	c) Strength (g/tex)	Strong 25.0-28.0 g/tex
	d) Fineness (Micronaire Value)	Mic: Fine 4.0–4.9
	e) Uniformity (%)	Excellent (>47%)
	f) Maturity (%)	Very good ((>81%)
	Plant Height (cm) Average	Tall (121-150 cm)
6	Reaction against major diseases	Moderate tolerance to whiteflies and tolerant to
	and pests	grey mildew.