



भारत सरकार  
GOVERNMENT OF INDIA

# भारतीय पौधा किस्म जरनल

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## PLANT VARIETY JOURNAL OF INDIA

खण्ड – 13, अंक – 09, सितम्बर 02, 2019

**Vol. - 13, No. – 09, September 02, 2019**



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

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





भारत सरकार  
GOVERNMENT OF INDIA

भारतीय पौधा किस्म जर्नल, खण्ड 13, अंक 09, सितम्बर 02, 2019  
भाद्रपद-शुक्ल-03, शक् 1941

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Plant Variety Journal of India, Vol. 13, No. 09, September 02, 2019  
Bhadrapad-Shukla-03, Saka 1941



पौधा किस्म और कृषक अधिकार संरक्षण प्राधिकरण  
एनएएससी काम्प्लेक्स, डीपीएस मार्ग, निकट टोडापुर गांव, नई दिल्ली-110 012.

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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 (पौ.कि.कृ.अ. सं.प्रा.) 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 काम्प्लैक्स (द्वितीय तल), डीपीएस मार्ग, निकट टोडापुर गांव, नई दिल्ली-110012 की ओर से प्राधिकरण के रजिस्ट्रार द्वारा 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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5. मामले से संबंधित व्यक्तियों से आपत्तियां, यदि कोई हों तोए आमंत्रित करने के लिए किस्मों के पासपोर्ट आंकड़े यहां प्रकाशित हैं।

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

क्र. सं. S.No.	पावती सं. Acknowledgement No.	नाम Denomination	फसल Crop	श्रेणी Category	पृष्ठ सं. Page No.
1.	आरइजी/2016/58 REG/2016/58	सीआईटीएच-डब्ल्यू-1 CITH-W-1	अखरोट Walnut	नई New	15
2.	आरइजी/2016/891 REG/2016/891	सीआईटीएच-डब्ल्यू-2 CITH-W-2	अखरोट Walnut	नई New	16
3.	आरइजी/2016/892 REG/2016/892	सीआईटीएच-डब्ल्यू-3 CITH-W-3	अखरोट Walnut	नई New	18

4.	आरइजी / 2016 / 893 REG/2016/893	सीआईटीएच-डब्ल्यू-4 CITH-W-4	अखरोट Walnut	नई New	20
5.	आरइजी / 2016 / 462 REG/2016/462	टीडब्ल्यूवी 14 TWV14	मक्का Maize	नई New	22
6.	आरइजी / 2016 / 997 REG/2016/997	बीएस 112 BS112	मक्का Maize	विद्यमान Extant	23
7.	आरइजी / 2016 / 1120 REG/2016/1120	डब्ल्यूसीवी 02 WCV02	मक्का Maize	विद्यमान Extant	25
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9.	आरइजी / 2016 / 625 REG/2016/625	फूलेभारती (जेएल 776) Phule Bharati (JL 776)	मूंगफली Groundnut	विद्यमान Extant	28
10.	आरइजी / 2017 / 166 REG/2017/166	आईआईएसआरप्रगति IISR PRAGATI	हल्दी Turmeric	नई New	30
11.	आरइजी / 2011 / 65 REG/2011/65	आईआईएसआरकेदाराम IISR KEDARAM	हल्दी Turmeric	विद्यमान Extant	31
12.	आरइजी / 2019 / 43 REG/2019/43	कुफरीमोहन KUFRI MOHAN	आलू Potato	विद्यमान (अधिसूचित) Extant (Notified)	33
13.	आरइजी / 2019 / 79 REG/2019/79	गेम-5 (गुजरात आनंद मूंगबीन-5) GAM-5 (GUJARAT ANAND MUNGBEAN- 5)	मूंग Green gram	विद्यमान (अधिसूचित) Extant (Notified)	35
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23.	आरइजी / 2015 / 1799 REG/2015/1799	कालोगंधेश्वरी KALO GANDHESWARI	चावल Rice	कृषक Farmer	57
24.	आरइजी / 2015 / 1798 REG/2015/1798	मिहीगंधेश्वरी MIHI GANDHESWARI	चावल Rice	कृषक Farmer	58
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27.	आरइजी / 2015 / 1804 REG/2015/1804	मोतीबैस MOTIBAS	चावल Rice	कृषक Farmer	63
28.	आरइजी / 2019 / 4 REG/2019/4	गुजरातआनंददेसी कॉटन-2 (जीएडीसी-2) Gujarat Anand Desi Cotton -2(GADC-2)	कपास Cotton	विद्यमान (अधिसूचित) Extant (Notified)	65
29.	आरइजी / 2013 / 80 REG/2013/80	एनपी-9361 NP-9361	चावल Rice	नई New	67
30.	आरइजी / 2013 / 339 REG/2013/339	एनपीएस-2098 आर NPS-2098R	चावल Rice	नई(अन्य) New (Other)	68
31.	आरइजी / 2014 / 1263 REG/2014/1263	एम 048 M048	चावल Rice	नई(प्ररूपी) New (Typical)	70
32.	आरइजी / 2014 / 1265 REG/2014/1265	बी 126 B 126	चावल Rice	नई (प्ररूपी) New (Typical)	72
33.	आरइजी / 2016 / 1738 REG/2016/1738	पंत बासमती-1 (आईईटी 21665) (आरपी 36444-1-9-5-5) Pant Basmati-1(IET 21665) (RP 36444-1-9-5- 5)	चावल Rice	विद्यमान (अधिसूचित) Extant (Notified)	73

34.	आरइजी / 2017 / 12 REG/2017/12	विष्णुभोग स्लैक्शन-1 Vishnubhog Selection- 1	चावल Rice	विद्यमान (अधिसूचित) Extant (Notified)	75
35.	आरइजी / 2009 / 365 REG/2009/365	एएनएस 025 ANS 025	चावल Rice	नई (प्ररूपी) New (Typical)	77
36.	आरइजी / 2012 / 73 REG/2012/73	जेआरओ 2407 (समाप्ति) JRO 2407 (SAMAPTI)	पटसन Jute	नई New	79
37.	आरइजी / 2018 / 663 REG/2018/663	सुरभि (आईईटी 24760) Surabhi (IET 24760)	चावल Rice	विद्यमान (वीसीके) Extant (VCK)	80

6. क्रोसेंझा की विशिष्टता, एकरूपता एवं स्थायित्व परीक्षण के दिशा-निर्देश।

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Guidelines for the conduct of Test for the Distinctiveness, Uniformity and Stability of *Crossandra (Crossandra infundibuliformis (L.) Nees.)*



**Seeds sent Status to DUS Centres in the month of August 2019**

<b>Total Seed Sent for DUS/GOT in the month August- 2019</b>	
<b>Crop</b>	<b>Category</b>
	<b>FV</b>
Rice	2
Groundnut	1
<b>Total</b>	<b>3</b>

## CORRIGENDUM

The following varieties which have been advertised in Plant Variety Journal of India (Vol. - 13, No. - 02, February, 2019 Uploaded on website on 14/08/2019) are withdrawn as the same has been advertised inadvertently.

<b>PVJ S.no.</b>	<b>Ack. No.</b>	<b>Applicant name and Address</b>	<b>Denomination</b>	<b>Crop</b>	<b>Category</b>	<b>Page No.</b>
5	REG/2009/662	Lokamata Rani Rashmoni Mission. P.O.- Nimpith Ashram, South 24 Parganas- 743338	Chamormoni- WB	Rice	Farmer	36
7	REG/2008/265	Maharashtra Hybrid Seeds Company Limited Resham Bhavan, 4th Floor, 78, Veer Nariman Road, Mumbai- 400020	C 5538	T. Cotton	New	39
53	REG/2012/86	Nuziveedu Seeds Ltd Survey No. 69, Gundlapocha mpally (Vill. & Panchayat), Medchal- Mandal, Rangareddy- Dist-501401	NBJ-18	Brinjal	Extant (VCK)	149
3	REG/2009/224	Nuziveedu Seeds Ltd Survey No. 69, Gundlapocha mpally (Vill. & Panchayat),	NC-1130	T. Cotton	Extant (VCK)	33

		Medchal- Mandal, Rangareddy- Dist-501401				
1	REG/2012/242	Nuziveedu Seeds Ltd Survey No. 69, Gundlapocha mpally (Vill. & Panchayat), Medchal- Mandal, Rangareddy- Dist-501401	NPH-567	Rice	Extant (VCK)	31
28	REG/2010/485	Nuziveedu Seeds Ltd	NBH-1112	Brinjal	Extant (VCK)	81
31	REG/2013/938	Nuziveedu Seeds Ltd	NBH-601	Brinjal	Extant (VCK)	90
33	REG/2013/948	Nuziveedu Seeds Ltd	NBH-3132	Brinjal	Extant (VCK)	94
34	REG/2011/123	Bejo Sheetal Seeds Pvt Ltd, Bejo Sheetal Corner, Mantha Road, Jalna-431203	BSS-332	Brinjal	Extant (VCK)	96
35	REG/2013/939	Nuziveedu Seeds Ltd	NBH-3536	Brinjal	Extant (VCK)	99
41	REG/2013/940	Nuziveedu Seeds Ltd	NTH-608	Tomato	Extant (VCK)	115
42	REG/2013/947	Nuziveedu Seeds Ltd	NTH-607	Tomato	Extant (VCK)	118
43	REG/2013/945	Nuziveedu Seeds Ltd	NTH-0318	Tomato	Extant (VCK)	121
46	REG/2013/941	Nuziveedu Seeds Ltd	NTH-1813	Tomato	Extant (VCK)	129
47	REG/2011/8	Nuziveedu Seeds Ltd	NTH-0506	Tomato	Extant (VCK)	132
50	REG/2011/115	Bejo Sheetal Seeds Pvt Ltd, Bejo Sheetal Corner,	BSS-630	Brinjal	Extant (VCK)	139

		Mantha Road, Jalna-431203				
51	REG/2011/120	Bejo Sheetal Seeds Pvt Ltd	BSS-537 (Harsha)	Brinjal	Extant (VCK)	142
52	REG/2011/130	Bejo Sheetal Seeds Pvt Ltd	BSS-684 (Dhanraj)	Tomato	Extant (VCK)	144
124	REG/2008/543	Nuziveedu Seeds Ltd	NCHB945Bt	Tetraploid cotton	New	315
134	REG/2010/253	Prabhat Agri Biotech Ltd, 6- 3-541/B, Opp. Heritage Office, Punjagutta, Hyderabad- 500082	PC-P17	Tetraploid cotton	Extant	337
138	REG/2013/105	Nuziveedu Seeds Ltd	NCS-495 BGII	Tetraploid cotton	New	345
145	REG/2010/229	Nuziveedu Seeds Ltd	NC-2151	Tetraploid cotton	Extant (VCK)	360

Sd/-  
(R.C. Agrawal)  
Registrar-General

## CORRIGENDUM

The following varieties which have been advertised in Plant Variety Journal of India (Vol. 13, No. 03 to 08, March to August, 2019. Uploaded on website on August 19, 2019) are withdrawn as the same has been advertised inadvertently.

<b>PVJ S.No.</b>	<b>Ack. No.</b>	<b>Applicant name and Address</b>	<b>Denomination</b>	<b>Crop</b>	<b>Category</b>	<b>Page No.</b>
124	REG/2008/543	Nuziveedu Seeds Ltd	NCHB945Bt	Tetraploid cotton	New	315
134	REG/2010/253	Prabhat Agri Biotech Ltd, 6-3-541/B, Opp. Heritage Office, Punjagutta, Hyderabad-500082	PC-P17	Tetraploid cotton	Extant	337
138	REG/2013/105	Nuziveedu Seeds Ltd	NCS-495 BGII	Tetraploid cotton	New	345
145	REG/2010/229	Nuziveedu Seeds Ltd	NC-2151	Tetraploid cotton	Extant (VCK)	360

Sd/-  
(R.C. Agrawal)  
Registrar-General

## **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 persons.

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 O - 1**  
**(See Rule 30)**  
**Government of India, Plant Varieties Registry**

1. Application no. 

N1	JR1	16	58
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 filed on 08.02.2016 by **ICAR-Central Institute of Temperate Horticulture, Old Air Field, Rangreth, Srinagar-190007, (J&K), India** for New variety of crop **Walnut (*Juglans regia* L.)** having denomination **CITH-W-1** 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** : CITH-W-1  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Central Institute of Temperate Horticulture, Old Air Field, Rangreth, Srinagar-190007, (J&K), India  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

N1	JR1	16	58
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b. Date of receipt : 08.02.2016  
c. Date of acceptance : --  
Crop (Taxonomical lineage) : Walnut (*Juglans regia* L.)  
Denomination : CITH-W-1  
Type of variety : New  
Classification of variety : Typical  
Previously proposed denomination : Not applicable  
Name of parental material : Clone AAS/MK/LG-5  
Source of parental material : Own germplasm  
Name of reference varieties : Hamdan, Sulaiman

**Variety description:**

A. Grouping characteristics	Remarks (measured values)
Tree growth habit (Characteristics 2)	Semi erect
Bearing habit (Characteristics 4)	Terminal
Leaf Leaflet margin (Characteristics 7)	Entire
Hull dehiscence Type (Characteristics 19)	Dehiscent
Nut shape (Characteristics 21)	Long trapezoid
<b>B. Distinct characteristics of candidate variety :</b>	

<b>CITH-W-1</b> has distinguishing characters as medium number of female flowers per cluster, weak prominence of pad on suture.		
<b>C. Distinct characteristics of reference variety:</b> <b>Hamdan &amp; Sulaiman</b> have distinguishing characters as less number of female flowers per cluster and medium prominence of pad on suture.		
<b>D. Date of commercialization of the variety</b>		NA
<b>E. Agronomic and commercial attributes</b>		
S. No.	Agronomic attributes	Details
1	Fruit: harvest maturity (average)	160-165 days
2	Fertilizer requirement to attain potential yield and time of application	
	Organic (Per Acre or per Plant)	Grown organic
	Inorganic (Per Acre or per Plant)	
	Other fertilizers (Per Acre or per Plant)	
3	Spacing (cm) requirement to attain potential yield	
	Row to row	800 cm
	Plant to plant	800 cm
4	Plant protection measures to attain the potential yield	Grown organic
5	Water requirement to attain potential yield	-
6	Any other relevant information specific to the variety/Hybrid	Light pruning (10% heading back + 10% thinning) required
<b>Commercial attributes</b>		
1	Yield potential (average)	7.53 q/ac
2	Yield of fruits per plant (average)	12.16 kg
3	Nut weight (average)	28.1 g
4	Kernel weight (average)	14.9 g
5	Kernel recovery (average)	53.02 %
6	Kernel colour (Extra light, Light, Amber)	Extra light
7	Synchrony in fruit maturity: Low/Intermediate/High	High

2. Application no. 

N2	JR2	16	891
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 filed on 01.07.2016 by **ICAR-Central Institute of Temperate Horticulture, Old Air Field, Rangreth, Srinagar-190007, (J&K), India** for **New** variety of crop **Walnut** (*Juglans regia* L.) having denomination **CITH-W-2** 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** : CITH-W-2  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Central Institute of Temperate Horticulture, Old Air Field, Rangreth, Srinagar-190007, (J&K), India  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

N2	JR2	16	891
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b. Date of receipt : 01.07.2016  
c. Date of acceptance : --  
Crop (Taxonomical lineage) : Walnut (*Juglans regia* L.)  
Denomination : CITH-W-2  
Type of variety : New  
Classification of variety : Typical  
Previously proposed denomination : Not applicable  
Name of parental material : Clone AAS/MK/LG-9  
Source of parental material : Own germplasm  
Name of reference varieties : Hamdan, Sulaiman

**Variety description:**

A. Grouping characteristics	Remarks (measured values)
Tree growth habit (Characteristics 2)	Semi erect
Bearing habit (Characteristics 4)	Terminal
Leaf Leaflet margin (Characteristics 7)	Entire
Hull dehiscence Type (Characteristics 19)	Dehiscent
Nut shape (Characteristics 21)	Ovate
<b>B. Distinct characteristics of candidate variety :</b> CITH-W-2 has distinguishing characters as medium number of female flowers per cluster, pointed nut apex perpendicular to suture.	
<b>C. Distinct characteristics of reference variety:</b> Hamdan & Sulaiman have distinguishing characters as less number of female flowers per cluster, rounded and truncate nut apex perpendicular to suture.	
<b>D. Date of commercialization of the variety</b>	NA
<b>E. Agronomic and commercial attributes</b>	

S. No.	Agronomic attributes	Details
1	Fruit: harvest maturity (average)	<160 days
2	Fertilizer requirement to attain potential yield and time of application	
	Organic (Per Acre or per Plant)	Grown organic
	Inorganic (Per Acre or per Plant)	
Other fertilizers (Per Acre or per Plant)		
3	Spacing (cm) requirement to attain potential yield	
	Row to row	800 cm
	Plant to plant	800 cm
4	Plant protection measures to attain the potential yield	Grown organic
5	Water requirement to attain potential yield	Light pruning (10% heading back + 10% thinning) required
6	Any other relevant information specific to the variety/Hybrid	--
<b>Commercial attributes</b>		
1	Yield potential (average)	4.72 q/ac
2	Yield of fruits per plant (average)	7.62 kg
3	Nut weight (average)	19.55 g
4	Kernel weight (average)	8.81 g
5	Kernel recovery (average)	45.06 %
6	Kernel colour (Extra light, Light, Amber)	Light
7	Synchrony in fruit maturity: Low/Intermediate/High	Low

3. Application no. 

N3	JR3	16	892
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 filed on 01.07.2016 by **ICAR-Central Institute of Temperate Horticulture, Old Air Field, Rangreth, Srinagar-190007 (J&K), India** for New variety of crop **Walnut** (*Juglans regia* L.) having denomination **CITH-W-3** 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** : CITH-W-3  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Central Institute of Temperate Horticulture, Old Air Field, Rangreth, Srinagar-190007, (J&K) India

Nationality of applicant : India

**Application details**

a. Number : 

N3	JR3	16	892
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b. Date of receipt : 01.07.2016

c. Date of acceptance : --

Crop (Taxonomical lineage) : Walnut (*Juglans regia* L.)

Denomination : CITH-W-3

Type of variety : New

Classification of variety : Typical

Previously proposed denomination : Not applicable

Name of parental material : Clone AAS/MK/SBB-3

Source of parental material : Own germplasm

Name of reference varieties : Hamdan, Sulaiman

**Variety description:**

A. Grouping characteristics		Remarks (measured values)
Tree growth habit (Characteristics 2)		Spreading
Bearing habit (Characteristics 4)		Terminal
Leaf Leaflet margin (Characteristics 7)		Entire
Hull dehiscence Type (Characteristics 19)		Dehiscent
Nut shape (Characteristics 21)		Ovate
<b>B. Distinct characteristics of candidate variety :</b>		
CITH-W-3 has distinguishing characters as intermediate male catkin per cluster and medium number of female flowers per cluster.		
<b>C. Distinct characteristics of reference variety:</b>		
Hamdan & Sulaiman have distinguishing characters as few & many male catkin per cluster and low female flowers per cluster.		
<b>D. Date of commercialization of the variety</b>		NA
<b>E. Agronomic and commercial attributes</b>		
S. No.	Agronomic attributes	Details
1	Fruit: harvest maturity (average)	160-165 days
2	Fertilizer requirement to attain potential yield and time of application	
	Organic (Per Acre or per Plant)	Grown organic
	Inorganic (Per Acre or per Plant)	
Other fertilizers (Per Acre or per Plant)		
3	Spacing (cm) requirement to attain potential yield	
	Row to row	800 cm

	Plant to plant	800 cm
4	Plant protection measures to attain the potential yield	Grown organic
5	Water requirement to attain potential yield	Light pruning (10% heading back + 10% thinning) required
6	Any other relevant information specific to the variety/Hybrid	
<b>Commercial attributes</b>		
1	Yield potential (average)	4.78 q/ac
2	Yield of fruits per plant (average)	7.71 kg
3	Nut weight (average)	23.11 g
4	Kernel weight (average)	10.27 g
5	Kernel recovery (average)	44.44 %
6	Kernel colour (Extra light, Light, Amber)	Amber
7	Synchrony in fruit maturity: Low/Intermediate/High	High

4. Application no. 

N4	JR4	16	893
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 filed on 01.07.2016 by **ICAR-Central Institute of Temperate Horticulture, Old Air Field, Rangreth, Srinagar-190007 (J&K), India** for New variety of crop **Walnut** (*Juglans regia* L.) having denomination **CITH-W-4** 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** : CITH-W-4  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Central Institute of Temperate Horticulture, Old Air Field, Rangreth, Srinagar-190007, (J&K) India  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

N4	JR4	16	893
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b. Date of receipt : 01.07.2016  
c. Date of acceptance : --  
Crop (Taxonomical lineage) : Walnut (*Juglans regia* L.)  
Denomination : CITH-W-4  
Type of variety : New  
Classification of variety : Typical  
Previously proposed : Not applicable

denomination

Name of parental material : Clone AAS/MK/SP-3  
 Source of parental material : Own germplasm  
 Name of reference varieties : Hamdan, Sulaiman

**Variety description:**

<b>A. Grouping characteristics</b>		<b>Remarks (measured values)</b>
Tree growth habit (Characteristics 2)		Spreading
Bearing habit (Characteristics 4)		Terminal
Leaf Leaflet margin (Characteristics 7)		Entire
Hull dehiscence Type (Characteristics 19)		Dehiscent
Nut shape (Characteristics 21)		Short Trapezoid
<b>B. Distinct characteristics of candidate variety :</b> CITH-W-4 has distinguishing characters as Protandrous and strong shell seal.		
<b>C. Distinct characteristics of reference variety:</b> Hamdan & Sulaiman have distinguishing characters as Protogynous and weak and intermediate shell seal.		
<b>D. Date of commercialization of the variety</b>		--
<b>E. Agronomic and commercial attributes</b>		
<b>S. No.</b>	<b>Agronomic attributes</b>	<b>Details</b>
1	Fruit: harvest maturity (average)	160-165 days
2	Fertilizer requirement to attain potential yield and time of application	
	Organic (Per Acre or per Plant)	Grown organic
	Inorganic (Per Acre or per Plant)	
	Other fertilizers (Per Acre or per Plant)	
3	Spacing (cm) requirement to attain potential yield	
	Row to row	800 cm
	Plant to plant	800 cm
4	Plant protection measures to attain the potential yield	Grown organic
5	Water requirement to attain potential yield	Light pruning (10% heading back + 10% thinning) required
6	Any other relevant information specific to the variety/Hybrid	--
<b>Commercial attributes</b>		
1	Yield potential (average)	4.43 q/ac
2	Yield of fruits per plant (average)	7.16 kg
3	Nut weight (average)	24.28 g
4	Kernel weight (average)	12.99 g
5	Kernel recovery (average)	53.50 %

6	Kernel colour (Extra light, Light, Amber)	Light
7	Synchrony in fruit maturity: Low/Intermediate/High	High

5. Application no. 

N23	ZM49	16	462
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 filed on 12.05.2016 by **Dow Agro Sciences India Pvt. Ltd., 1<sup>st</sup> Floor, Block B, Gate 02, Godrej IT Park, Godrej Business District, Pirojshanagar, L.B.S. Marg, Vikhroli (West), Mumbai-400079, India** for **New** variety of crop **Maize** (*Zea mays* L.) having denomination **TWV14** 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** : TWV14  
**Applicant** : Dow AgroSciences India Pvt. Ltd.  
**Address of the applicant** : 1<sup>st</sup> Floor, Block B, Gate 02, Godrej IT Park, Godrej Business District,  
Pirojshanagar, L.B.S. Marg, Vikhroli (West), Mumbai-400079,  
India  
Nationality of applicant : USA  
**Application details**  
a. Number : 

N23	ZM49	16	462
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b. Date of receipt : 12.05.2016  
c. Date of acceptance : --  
Crop (Taxonomical lineage) : Maize (*Zea mays* L.)  
Denomination : TWV14  
Type of variety : New Variety  
Classification of variety : Other (Inbred Line)  
Previously proposed denomination : Not applicable  
Name of parental material : DK9051A  
Source of parental material : Own germplasm  
Name of reference varieties : CM 152

**Variety description:**

<b>A. Grouping characteristics</b>	<b>Remarks (measured values)</b>
Tassel: Time of anthesis (on middle third of main axis, 50 % of plants) (Characteristic 4)	Late
Ear: Time of silk emergence (50% plants) (Characteristic 11)	Late
Ear: Anthocyanin colouration of silks (on day of emergence) (Characteristic 12)	Present

Plant: Length (up to flag leaf) (Characteristic 15.1)		Long
Ear: Type of grain (in middle third of ear) (Characteristic 22)		Flint
<b>B. Distinct characteristics of candidate variety :</b> TWV14 has distinguishing character as straight tassel attitude of lateral branches (in lower third of tassel).		
<b>C. Distinct characteristics of reference variety:</b> CM 152 has distinguishing character as curved tassel attitude of lateral branches (in lower third of tassel).		
<b>D. Date of commercialization of the variety</b>		14.05.2015 (Hybrid D4244)
<b>E. Agronomic and commercial attributes</b>		
<b>S. No.</b>	<b>Agronomic attributes</b>	<b>Details</b>
1	Days to flowering/anthesis (Early/Late)	>55 days (Late)
2	The best growing season to attain the potential yield (Zone wise)	Rabi, West Godavari, Andhra Pradesh, Zone IV
3	Cropping/ climatic zone in which the variety recommended for cultivation	Since it is an inbred so not recommended for commercial cultivation by farmers.
4	Resistance/ Tolerance to pest/ disease	Field tolerance to major pest and diseases
5	Seed yield/ac (Average)	12.14-15.18 q/ac
6	Thousand grain weight (g)	> 300 g
7	Any other measures to achieve the potential yield	Maintain spacing (60x20 cm), timely follow standard package of practices for maize cultivation in India.

6. Application no. 

E12	ZM99	16	997
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 filed on 27.07.2016 by **Dow Agro Sciences India Pvt. Ltd., 1<sup>st</sup> Floor, Block B, Gate 02, Godrej IT Park, Godrej Business District, Pirojshanagar, L.B.S. Marg, Vikhroli (West), Mumbai-400079, India** for Extant (VCK) variety of crop **Maize** (*Zea mays* L.) having denomination **BS112** 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** : BS112  
**Applicant** : Dow AgroSciences India Pvt. Ltd.  
**Address of the applicant** : 1<sup>st</sup> Floor, Block B, Gate 02, Godrej IT Park, Godrej Business District, Pirojshanagar, L.B.S. Marg, Vikhroli (West), Mumbai-400079, India

Nationality of applicant : USA

**Application details**

a. Number	:	E12	ZM99	16	997
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b. Date of receipt : 27.07.2016

c. Date of acceptance : --

Crop (Taxonomical lineage) : Maize (*Zea mays* L.)

Denomination : BS112

Type of variety : Extant (VCK)

Classification of variety : Other (Inbred Line)

Previously proposed denomination : Not applicable

Name of parental material : P3041

Source of parental material : Own germplasm

Name of reference varieties : HKI 161, HKI-193-1

**Variety description:**

A. Grouping characteristics		Remarks (measured values)
Tassel: Time of anthesis (on middle third of main axis, 50 % of plants) (Characteristic 4)		Late
Ear: Time of silk emergence (50% plants) (Characteristic 11)		Late
Ear: Anthocyanin colouration of silks (on day of emergence) (Characteristic 12)		Absent
Plant: Length (up to flag leaf) (Characteristic 15.1)		Short
Ear: Type of grain (in middle third of ear) (Characteristic 22)		Flint
<b>B. Distinct characteristics of candidate variety :</b>		
BS112 has distinguishing characters as wide tassel angle between main axis and lateral branches, straight tassel attitude of lateral branches (in lower third of tassel), ear anthocyanin colouration of silks (on day of emergence) absent, orange ear colour of top of grain.		
<b>C. Distinct characteristics of reference variety:</b>		
HKI 161 has distinguishing characters as narrow tassel angle between main axis and lateral branches, ear anthocyanin colouration of silks (on day of emergence) present.		
HKI-193-1 has distinguishing characters as narrow tassel angle between main axis and lateral branches, yellow with cap ear colour of top of grain.		
<b>D. Date of commercialization of the variety</b>		10.01.2014 (Hybrid D2244)
<b>E. Agronomic and commercial attributes</b>		
<b>S. No.</b>	<b>Agronomic attributes</b>	<b>Details</b>
1	Days to flowering/anthesis (Early/Late)	>55 days (Late)
2	The best growing season to attain the potential yield (Zone wise)	Rabi, West Godavari, Andhra Pradesh, Zone IV
3	Cropping/ climatic zone in which the variety recommended for cultivation	Since it is an inbred so not recommended for commercial cultivation by farmers.



4	Resistance/ Tolerance to pest/ disease	Field tolerance to major pest and diseases
5	Seed yield/ac (Average)	15.18 – 18.21q/ac
6	Thousand grain weight (g)	> 300 g
7	Any other measures to achieve the potential yield	Maintain spacing (60x20 cm), timely follow standard package of practices for maize cultivation in India.

7. Application no. 

E14	ZM101	16	1120
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 filed on 05.08.2016 by **Dow AgroSciences India Pvt. Ltd., 1<sup>st</sup> Floor, Block B, Gate 02, Godrej IT Park, Godrej Business District, Pirojshanagar, L.B.S. Marg, Vikhroli (West), Mumbai-400079, India** for Extant (VCK) variety of crop **Maize** (*Zea mays* L.) having denomination **WCV02** 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** : WCV02  
**Applicant** : Dow AgroSciences India Pvt. Ltd.  
**Address of the applicant** : 1<sup>st</sup> Floor, Block B, Gate 02, Godrej IT Park, Godrej Business District, Pirojshanagar, L.B.S. Marg, Vikhroli (West), Mumbai-400079, India  
Nationality of applicant : USA  
**Application details**  
a. Number : 

E14	ZM101	16	1120
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b. Date of receipt : 05.08.2016  
c. Date of acceptance : --  
Crop (Taxonomical lineage) : Maize (*Zea mays* L.)  
Denomination : WCV02  
Type of variety : Extant (VCK)  
Classification of variety : Other (Inbred Line)  
Previously proposed denomination : Not applicable  
Name of parental material : WCV02, P3013  
Source of parental material : Own germplasm  
Name of reference varieties : HKI 161, HKI-193-1

**Variety description:**

A. Grouping characteristics	Remarks (measured values)
Tassel: Time of anthesis (on middle third of main axis, 50 % of plants) (Characteristic 4)	Late

Ear: Time of silk emergence (50% plants) (Characteristic 11)	Late	
Ear: Anthocyanin colouration of silks (on day of emergence) (Characteristic 12)	Absent	
Plant: Length (up to flag leaf) (Characteristic 15.1)	Short	
Ear: Type of grain (in middle third of ear) (Characteristic 22)	Flint	
<b>B. Distinct characteristics of candidate variety:</b> WCV02 has distinguishing characters as curved tassel attitude of lateral branches (in lower third of tassel), earanthocyanin colouration of silks (on day of emergence) absent, orange ear colour of top of grain.		
<b>C. Distinct characteristics of reference variety:</b> HKI 161 has distinguishing characters as straight tassel attitude of lateral branches (in lower third of tassel), ear anthocyanin colouration of silks (on day of emergence) present. HKI-193-1 has distinguishing characters as straight tassel attitude of lateral branches (in lower third of tassel), yellow with cap ear colour of top of grain.		
<b>D. Date of commercialization of the variety</b>	24.04.2013 (Hybrid D4141)	
<b>E. Agronomic and commercial attributes</b>		
<b>S. No.</b>	<b>Agronomic attributes</b>	<b>Details</b>
1	Days to flowering/anthesis (Early/Late)	>55 days (Late)
2	The best growing season to attain the potential yield (Zone wise)	Rabi, West Godavari, Andhra Pradesh, Zone IV
3	Cropping/ climatic zone in which the variety recommended for cultivation	Since it is an inbred so not recommended for commercial cultivation by farmers.
4	Resistance/ Tolerance to pest/ disease	Field tolerance to major pest and diseases
5	Seed yield/ac (Average)	12.14-15.18 q/ac
6	Thousand grain weight (gm)	> 300 g
7	Any other measures to achieve the potential yield	Maintain spacing (60x20 cm), timely follow standard package of practices for maize cultivation in India.

8. Application no. 

E1	BJ17	17	1869
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 filed on 18.9.2017 by **Indian Agricultural Research Institute, New Delhi-110012** for Extant (Notified) variety of crop **Indian Mustard (*Brassica juncea* (L.) Czern & Coss)** having denomination **Pusa Double Zero Mustard 31 (PDZ-1)** 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** : Pusa Double Zero Mustard 31 (PDZ-1)  
**Applicant** : Indian Agricultural Research Institute  
**Address of the applicant** : New Delhi-110012  
 Nationality of applicant : Indian  
**Application details**  
     a. Number : 

E1	BJ17	17	1869
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     b. Date of receipt : 18.09.2017  
     c. Date of acceptance : --  
 Crop (Taxonomical lineage) : Indian Mustard (*Brassica juncea*(L.) Czern&Coss)  
 Denomination : Pusa Double Zero Mustard 31 (PDZ-1)  
 Type of variety : Extant (Notified)  
 Classification of variety : Typical  
 Previously proposed denomination : Not applicable  
 Name of parental material : LES-1-27, NUDHYJ-3  
 Source of parental material : Own germplasm  
 Name of reference varieties : Pusa Mustard 21 (LES 1-27), Kranti  
 Notification details : S.O. 2238 (E), Dated: 29.06.2016

**Variety description:**

A. Grouping characteristics	Remarks (measured values)	
Leaf: Number of lobes (Characteristic 4)	Medium	
Flower: Time of flowering (Characteristic 8)	Late	
Plant: Main shoot length (Characteristic 12)	Long	
Silique: Number of seeds per silique (Characteristic 20)	Medium	
<b>B. Distinct characteristics of candidate variety:</b> <b>Pusa Double Zero Mustard 31 (PDZ-1)</b> has distinguishing characters like light green leaf colour, medium width of leaf, late flowering, short and narrow petals, short and medium silique, medium density of silique on main shoot, medium number of seeds per silique, yellow seed colour, high oil content, low erucic acid and glucosinolates in oil		
<b>C. Distinct characteristics of reference varieties:</b> <b>Pusa Mustard 21 (LES 1-27):</b> It has distinguishing characters as medium green leaf colour, narrow width of leaf, late flowering, short and medium width of petal, low silique density on main shoot, few seeds per silique, reddish brown seed colour, low oil content, and high glucosinolates. <b>Kranti</b> has distinguishing characters as medium green leaf colour, medium flowering, medium length and width of petals, medium silique, reddish brown seed colour, medium oil content, high erucic acid and glucosinolates in oil.		
<b>D. Date of commercialization of the variety</b>	29.06.2016	
<b>E. Agronomic and commercial attributes</b>		
S. No.	Agronomic attributes	Details
1	Days to Maturity: Early/Medium/Late	144 days (Medium)
2	Production condition: Suitability area in the country	North western plain zone- Delhi, Haryana, Rajasthan and UP

	: Time of sowing	October
	: Irrigated/ Rainfed	60-70 days after sowing
	: Low fertility/High fertility	-
3	Resistance/Tolerance to pest/s	White rust severity was statistically comparable to resistant, under artificial screening PDZ-1 is statistically at par with <i>Alternaria</i> blight tolerant check PHR2. Stem rot incidence is at par with resistant checks i.e. PHR2 and EC399301 during both years. Incidence/severity of other prevalent diseases like powdery and downy mildew and bacterial rot was at par with checks.
4	Zone wise yield potential (Average)	6.18 to 10.67 q/ac
5	Seed yield (Average)	8.68 q/ac
6	Seed colour	Yellow
7	Seed weight (1000 seeds weight in gram)	--
8	Seed oil content (average)	40.6%
9	Any other relevant information specific to the variety/hybrid.	It is a double zero (<2.0% erucic acid in oil and <30ppm glucosinolates in seed meal cake) variety.

9. Application no. 

E4	AH5	16	625
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 filed on 30.05.2016 by **Mahatma Phule Krishi Vidyapeeth, Dist Ahmednagar, Rahuri-413722**, for **Extant (Notified)** variety of crop **Groundnut (*Arachis hypogaea*L.)** having denomination **Phule Bharati (JL 776)** 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** : Phule Bharati (JL 776)  
**Applicant** : Mahatma Phule Krishi Vidyapeeth  
**Address of the applicant** : Dist- Ahmednagar, Rahuri – 413722.  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

E4	AH5	16	625
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b. Date of receipt : 30.05.2016  
c. Date of acceptance : --  
Crop (Taxonomical lineage) : Groundnut (*Arachis hypogaea*L.)  
Denomination : Phule Bharati (JL 776)

Type of variety : Extant (Notified)  
 Classification of variety : Typical  
 Previously proposed denomination : Not applicable  
 Name of parental material : (ICGV92069 x ICGV93184) x ICGV98300  
 Source of parental material : Own germplasm  
 Name of reference varieties : RHRG 6083  
 Notification details : S.O. 1228 (E), Dated: 07.5.2015

### Variety description:

A. Grouping characteristics	Remarks (measured values)
Plant: Growth habit (Characteristic 1)	Erect
Flower: Arrangement on side branches (Characteristic 6)	Alternate
Time of maturity (For curing) (Characteristic 8)	Early (90 to 95)
Kernel: Weight of 100 kernels (about 9% moisture) (Characteristic 17)	Low
<b>B. Distinct characteristics of candidate variety:</b> <b>Phule Bharati (JL 776)</b> has distinguishing characters like erect plant growth habit, small leaflet size, sparse stem pubescence, compound inflorescence, medium maturity, medium pod constriction, two seeded pods, present pod beak, rose and cylindrical kernel colour and shape.	
<b>C. Distinct characteristics of reference varieties:</b> <b>RHRG 6083:</b> It has distinguishing characters as spanish bunch plant growth habit, small leaflet size, sub-glabrous stem pubescence, simple inflorescence, medium maturity, slight pod constriction, two seeded pods, present pod beak, red and cylindrical kernel colour and shape.	
<b>D. Date of commercialization of the variety</b>	07.5.2015

### E. Agronomic and commercial attributes

S. No.	Agronomic attributes	Details
1	Plant growth habit	Erect
2	Days to Maturity	105-110 days (Medium)
3	Pod: Number of kernels (on 100 pod basis)	>60% ,2 seeded
4	Yield Potential (Average)	853.88 kg/ac
5	Kernel: Oil percentage	50%
6	Nutritive value	High
7	Resistance/ Tolerance to pests / Disease	Resistance to rust, <i>Spodopteralitura</i> and moderately resistant to late leaf spot diseases.
8	Any other relevant information specific to the variety	Variety has responded well to the early sowing (1716.67 kg/ac) as compared to check var. TKG 19A and was at par in normal and late sowing dates. In fertilizer level at 75% RDF variety has

	given 16.41% higher yield than TKG 19A variety.
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10. Application no. 

N1	CL2	17	166
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 filed on 15.03.2017 by **Indian Council of Agricultural Research, Krishi Bhawan, New Delhi, India** for New variety of crop **Turmeric** (*Curcuma longa* L.) having denomination **IISR PRAGATI** 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** : IISR PRAGATI  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Krishi Bhawan, New Delhi, India  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

N1	CL2	17	166
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b. Date of receipt : 15.03.2017  
c. Date of acceptance : --  
Crop (Taxonomical lineage) : Turmeric (*Curcuma longa* L.)  
Denomination : IISR PRAGATI  
Type of variety : New  
Classification of variety : Typical  
Previously proposed denomination : Not applicable  
Name of parental material : Germplasm accession no. 48 (IC 348918).  
Source of parental material : Own germplasm  
Name of reference varieties : SB 10757

**Variety description:**

<b>A. Grouping characteristics</b>	<b>Remarks (measured values)</b>
Plant :Height(Characteristic 2)	Medium
Leaf : Lamina length (Characteristic 7)	Long
Leaf : Lamina width (Characteristic 8)	Medium
Coma bract :Colour(Characteristic 14)	White
Rhizome: Habit(Characteristic 16)	Intermediate
Rhizome: Shape(Characteristic 17)	Straight
Rhizome: Number of mother rhizomes(Characteristic19)	One
Duration (Number of days)(Characteristic 23)	Short
Dry recovery(%)(Characteristic 24)	Intermediate

<b>B. Distinct characteristics of candidate variety:</b> IISR PRAGATI has distinguishing characters as medium plant height, long leaf lamina and white coma bract.		
<b>C. Distinct characteristics of reference variety:</b> SB 10757 has distinguishing characters as short plant height, medium leaf lamina and coloured coma bract.		
<b>D. Date of commercialization of the variety</b>		NA
<b>E. Agronomic and commercial attributes</b>		
S. No.	Agronomic attributes	Details
1	Plant growth habit	
2	Days to maturity (average)	180 days
3	Yield of rhizome per plant (g) (Average)	
4	Yield potential (Average)	13.43 kg/ac
5	Nutritive value (i) Curcumin (ii) Oleoresin	5.02 % 12.14 %
6	Dry recovery (%)	--
7	Resistance/ Tolerance to pests / Disease	Moderately tolerant to root knot nematode infestation
8	Any other relevant information specific to the variety	-

11. Application no. filed 

E3	CL3	11	65
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 on 05.01.2011 by **Indian Council of Agricultural Research, Krishi Bhawan, New Delhi, India** for Extant (VCK) variety of crop **Turmeric** (*Curcuma longa* L.) having denomination **KEDARAM** 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** : IISR KEDARAM  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Krishi Bhawan, New Delhi, India  
**Nationality of applicant** : Indian  
**Application details**  
a. Number : 

E3	CL3	11	65
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b. Date of receipt : 05.01.2011  
c. Date of acceptance : --  
**Crop (Taxonomical lineage)** : Turmeric (*Curcuma longa* L.)  
**Denomination** : IISR KEDARAM

Type of variety : Extant (VCK)  
 Classification of variety : Typical  
 Previously proposed : Not applicable  
 Denomination  
 Name of parental material : Germplasm accession no. 126  
 Source of parental material : Own germplasm  
 Name of reference varieties : Armoor

**Variety description:**

<b>A. Grouping characteristics</b>		<b>Remarks (measured values)</b>
Plant: Height(Characteristic 2)		Short
Leaf: Lamina length (Characteristic 7)		Long
Leaf: Lamina width (Characteristic 8)		Broad
Coma bract: Colour (Characteristic 14)		White
Rhizome: Habit (Characteristic 16)		Compact
Rhizome: Shape (Characteristic 17)		Curved
Rhizome: Number of mother rhizomes (Characteristic 19)		Two-three
Duration (Number of days) (Characteristic 23)		Long
Dry recovery (%) (Characteristic 24)		Intermediate
<b>B. Distinct characteristics of candidate variety:</b> IISR KEDARAM has distinguishing characters as semi erect plant leaf disposition, short leaf petiole length.		
<b>C. Distinct characteristics of reference variety:</b> Armoor has distinguishing characters as erect plant leaf disposition, intermediate leaf petiole length.		
<b>D. Date of commercialization of the variety</b>		24-03-2004
<b>E. Agronomic and commercial attributes</b>		
S. No.	Agronomic attributes	Details
1	Plant growth habit	Open
2	Days to maturity	215 days
3	Yield of rhizome per plant(Average)	60 g (dry)/plant
4	Yield potential (Average)	21.36.74 (dry) kg/ac
5	Nutritive value (i) Curcumin (ii) Oleoresin	5.70 % 13.65 %
6	Dry recovery (%)	19.50 %
7	Resistance/ Tolerance to pests / Disease	Leaf blotch
8	Any other relevant information specific to the variety	-

12. Application No. 

E1	ST1	19	43
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 filed on 10.04.2019 by **Indian Council of Agricultural Research, Krishi Bhawan, New Delhi-110001** for a Extant (Notified) Variety of crop **Potato** (*Solanum tuberosum* L.) having denomination **KUFRI MOHAN** the specification includes its drawing and or photograph(s) of which are given below, 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** : KUFRI MOHAN  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Krishi Bhawan, New Delhi-110001  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

E1	ST1	19	43
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b. Date of receipt : 10.04.2019  
c. Date of acceptance : --  
Crop (taxonomical lineage) : Potato (*Solanum tuberosum* L.)  
Denomination : KUFRI MOHAN  
Type of variety : Extant (Notified)  
Classification of variety : Typical  
Previously proposed : Not applicable  
Denomination :  
Name of parental material : MS/92-1090 x CP 1704  
Source of parental material : Parental line MS/92-1090 is advanced hybrid of Indian origin developed by CPRI, Shimla while CP1704 is an introduced material from France received in 1968 to be used as parental material.  
Name of reference varieties : KufriBahar, Kufri Badshah  
Notification details : Notification no. S.O. 3666 (E), dated: 06.12.2016

**Variety description:**

A. Group characteristics		Remarks (measured values)
Light sprout: Predominant colour (Characteristic 1)		White-green
Stem : Predominant colour (Characteristic 11)		Green
Flower: Corolla colour (Characteristic 29)		White
Tuber: Predominant skin colour (Characteristic 43)		White cream
<b>B. Distinct characteristics of candidate variety:</b> KUFRI MOHAN has distinguishing character as medium maturing, high yielding table purpose, tall with vigorous and semi compact canopy, ovoid tubers with shallow eyes and white flesh.		
<b>C. Distinct characteristics of reference varieties: -</b>		
<b>D. Date of commercialization of the variety</b>		06.12.2016
<b>E. Agronomic and commercial attributes</b>		
S.No.	Attributes	Details
1	Growth habit (determinate/indeterminate)	Determinate

2	Days to flowering/anthesis (average)	50-60 days
3	Days to maturity (average)	Medium maturity (90-100 days)
4	Planting material/seed material requirement	14-16 q/ac tubers of 40-60g
5	Fertilizer requirement to attain potential yield and time of application	
	Organic (per ha)	Green manure and 10t FYM incorporation in soil before planting
	Inorganic (per ha)	At modipuram, the optimum nitrogen, phosphorous and potassium doses are 219, 40 and 81 kg/ha, respectively with 50% N at the time of planting and 50% at earthing up. The full doses of phosphorous and potassium to be applied at the time of planting.
	Other fertilizers (per ac or per plant)	-
6	Spacing (cms) requirement to attain potential yield	
	Row to row	60cm
	Plant to plant	20cm
7	Soil requirement to attain potential yield	Neutral to slightly alkaline to slightly acidic alluvial soils, sandy loam in texture.
8	Plant protection measures to attain potential yield	Thimet @10kg/ha at earthing up and foliar spray of oxydemeton methyl @1.5ml/L or imidacloprid @0.3ml/L after 70-75 days of planting (seed crop only)
9	Sowing window requirement to attain potential yield (zonewise)	15 <sup>th</sup> October-5 <sup>th</sup> November in north central plains
10	Number of irrigations required to attain potential yield (zonewise)	According to soil type. Approx. 4-5 irrigations
11	Best growing season to attain potential yield (zonewise)	Rabi season
12	Name the cropping/climatic zone of India in which the varietal trials were conducted	Evaluated in replicated yield trials in northern plains (4 locations- Hisar, Jalandhar, Modipuram and Pantnagar), central plains (4 locations- Chindwara, Deesa, Raipur, Kota), eastern plains (8 locations- Bhubaneshwar, Dholi, Faizabad, Jorhat, Kalyani, Kanpur, Pashigat and Patna) and plateau regions (3 locations- Dharwad, Hassan and Pune)
13	Any other relevant information specific to the variety	Kufri Mohan is a medium maturing high yielding table purpose potato variety with moderate level of resistance to late blight.
<b>Commercial Attributes</b>		

1	Yield potential (average) per ha (t/ha)	120- 140 q/ac
2	Yield of tubers per plant (average)	450-500g

13. Application No. 

E1	VR1	19	79
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 filed on 09.05.2019 by **Anand Agricultural University, The Director of Research and Dean PG Studies, Anand Agricultural University, Anand-388110, Ta & Dist: Anand, Gujarat** for a Extant (Notified) Variety of crop **Green gram** (*Vigna radiata* (L.) Wilczek.) having denomination **GAM-5 (GUJARAT ANAND MUNGBEAN-5)** 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** : GAM-5 (GUJARAT ANAND MUNGBEAN-5)  
**Applicant** : Anand Agricultural University  
**Address of the applicant** : The Director of Research and Dean PG Studies, Anand Agricultural University, Anand-388110, Ta & Dist: Anand, Gujarat  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

E1	VR1	19	79
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b. Date of receipt : 09.05.2019  
c. Date of acceptance : --  
Crop (taxonomical lineage) : Green gram (*Vigna radiata* (L.) Wilczek.)  
Denomination : GAM-5 (GUJARAT ANAND MUNGBEAN-5)  
Type of variety : Extant (Notified)  
Classification of variety : Typical  
Previously proposed : Not applicable  
Denomination :  
Name of parental material : VMS-6  
Source of parental material : Selection from local materials (IC No.613362)  
Name of reference varieties : GM 4  
Notification details : Notification no. S.O. 1379 (E), dated: 27.03.2018

**Variety description:**

<b>A. Group characteristics</b>	<b>Remarks (measured values)</b>
Hypocotyl: Anthocyanin colouration (Characteristic 1)	-
Time of flowering (Characteristic 2)	Early
Seed: Lustre (Characteristic 22)	Shiny
Seed: Size (Characteristic 24)	Large
<b>B. Distinct characteristics of candidate variety:</b>	

<b>GAM-5 (GUJARAT ANAND MUNGBEAN-5)</b> has distinguishing character as semi erect plant growth type, stem colour green with purple splashes, dark green coloured leaves with purple leaf veins.		
<b>C. Distinct characteristics of reference varieties:</b> <b>GM-4</b> has dishtinguishing characters as spreading plant growth type, stem colour green and green coloured leaves with green leaf veins.		
<b>D. Date of commercialization of the variety</b>		27.03.2018
<b>E. Agronomic and commercial attributes</b>		
S. No.	Attributes	Details
1	Days to maturity: early/medium/late	Early
2	Production condition: suitability area in the country	Gujarat
	Time of sowing	Middle & north Gujarat: 1 <sup>st</sup> week of March South Gujarat: 15 <sup>th</sup> February
	Irrigated/rainfed	Irrigated
	Low fertility/high fertility of soil	-
3	Tolerance to adverse temperature/frost/heat- sensitive/tolerance	-
4	Resistant/tolerance to pest	Resistant to YMD
5	The best growing season to attend the potential yield	Summer
6	Number of pods per plant (average)	33 (21-44)
7	Zone wise yield potential	As this variety is recommended for Gujarat state only, zone wise data not provided
8	Seed yield q/ac (average)	7.24 q/ac
9	Any other relevant information specific to the variety/hybrid (low/medium/high water use efficiency type)	-

14. Application No. 

E1	CA1	19	91
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 filed on 04.06.2019 by **Mahatma Phule Krishi Vidyapeeth, Principal Scientist, Pulses Improvement Project, MPKV, Rahuri, Dist: Ahmednagar-413722** for a Extant (Notified) Variety of crop **Chickpea** (*Cicer arietinum* L.) having denomination **PHULE VIKRANT** 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** : PHULE VIKRANT  
**Applicant** : Mahatma Phule Krishi Vidyapeeth  
**Address of the applicant** : Principal Scientist, Pulses Improvement Project, MPKV, Rahuri, Dist: Ahmednagar-413722  
 Nationality of applicant : Indian  
**Application details**  
     a. Number : 

E1	CA1	19	91
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     b. Date of receipt : 04.06.2019  
     c. Date of acceptance : --  
 Crop (taxonomical lineage) : Chickpea (*Cicer arietinum* L.)  
 Denomination : PHULE VIKRANT  
 Type of variety : Extant (Notified)  
 Classification of variety : Typical  
 Previously proposed : Not applicable  
 Denomination :  
 Name of parental material : Digvijay x WCG 2000-2  
 Source of parental material : Not applicable  
 Name of reference varieties : Vijay, Vishal  
 Notification details : Notification no. S.O. 6318 (E), dated: 26.12.2018

**Variety description:**

A. Group characteristics		Remarks (measured values)
Time of flowering (Characteristic 3)		Early
Flower :Colour (Characteristic 9 )		Pink
Seed: Colour (Characteristic 15 )		Brown
Seed : Size (Characteristic 16 )		Small
<b>B. Distinct characteristics of candidate variety:</b> PHULE VIKRANT has distinguishing characteras semi erect plant growth habit, colour of foliage medium green, small seed size, angular seed shape.		
<b>C. Distinct characteristics of reference varieties:</b> Vijayhas distinguishing characters as spreading plant growth habit, colour of foliage medium green, very small seed size, angular seed shape. Vishal has distinguishing characters as semi erect plant growth habit, colour of foliage dark green, medium seed size, owl's head seed shape.		
<b>D. Date of commercialization of the variety</b>		31.10.2017
<b>E. Agronomic and commercial attributes</b>		
S.No.	Attributes	Details
1	Days to maturity: early/medium/late	Medium (105-110days)
2	Production condition:	Suitable for irrigated condition
	Suitability area in the country	WCZ(MS, West MP, Gujarat and South Rajasthan)
	Time of sowing	20 <sup>th</sup> October-10 <sup>th</sup> November
	Irrigated/rainfed	Irrigated
	Low fertility/high fertility of soil	High fertility of soil

3	Tolerance to disease and pests	Resistant to <i>Fusarium wilt</i>
4	Tolerance to adverse temperature/frost/heat and salinity	-
5	Grain characters	
	Physical	
	a) Kernel size (cm)	-
	b) Seed luster (present/absent)	-
	c) Seed colour	Yellowish brown
6	Zone wise yield potential (average) per ac (q/ac)	16.66 q/ac
7	Seed yield (q/ac) average	8.17 q/ac
8	Seed weight (100 seed weight in g)	19.9g
9	Any other relevant information specific to the variety/hybrid	-

15. Application No. 

E1	TD1	19	107
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 filed on 26.07.2019 by **Indian Council of Agricultural Research, Krishi Bhawan, New Delhi-110001** for a Extant (Notified) Variety of crop **Durum Wheat (*Triticum durum* Desf.)** having denomination **PUSA WHEAT 8777 (HI 8777)** 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** : PUSA WHEAT 8777 (HI 8777)  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Krishi Bhawan, New Delhi-110001  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

E1	TD1	19	107
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b. Date of receipt : 26.07.2019  
c. Date of acceptance : --  
Crop (taxonomical lineage) : Durum Wheat (*Triticum durum* Desf.)  
Denomination : PUSA WHEAT 8777 (HI 8777)  
Type of variety : Extant (Notified)  
Classification of variety : Typical  
Previously proposed : Not applicable  
Denomination :  
Name of parental material : B93/HD 4672//HI 8627  
Source of parental material : Not applicable  
Name of reference varieties : AKDW 2997-16 and UAS 446  
Notification details : Notification no. S.O. 1379 (E), dated: 27.03.2018

**Variety description:**

<b>A. Group characteristics</b>		<b>Remarks (measured values)</b>
Coleoptile colouration (Characteristic 1)		Green
Flag leaf : Anthocyanin coloration of auricle (Characteristic 4)		Present
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)		None
<p><b>B. Distinct characteristics of candidate variety:</b>  <b>PUSA WHEAT 8777 (HI 8777)</b> has distinguishing character as erect plant growth habit, waxiness on leaf sheath of flag leaf strong, waxiness on leaf blade of flag leaf medium, ear waxiness strong, peduncle waxiness strong, medium to long ear length, spreading awn attitude, and peduncle attitude at maturity is bent.</p>		
<p><b>C. Distinct characteristics of reference varieties:</b>  <b>AKDW 2997-16</b> has distinguishing characters as erect plant growth habit, waxiness on leaf sheath of flag leaf weak, waxiness on leaf blade of flag leaf weak, ear waxiness weak, peduncle waxiness weak, short ear length, medium awn attitude and peduncle attitude at maturity is straight.  <b>UAS 446</b> has distinguishing characters as semi erect plant growth habit, waxiness on leaf sheath of flag leaf strong, waxiness on leaf blade of flag leaf absent, ear waxiness absent, medium peduncle waxiness, medium ear length, appraised awn attitude and peduncle attitude at maturity is straight.</p>		
<b>D. Date of commercialization of the variety</b>		09.01.2018
<b>E. Agronomic and commercial attributes</b>		
<b>S.No.</b>	<b>Attributes</b>	<b>Details</b>
1	Growth habit	Erect
2	Days to heading (average)	55-60days
3	Days to physiological maturity (average)	105-110days
4	Seed rate per ac	50kg/ac
5	Recommended nutrition/ha schedule to attain potential yield and time of application	
	Organic (per ha)	
	Inorganic (per ac)	N:P:K 24:12:10 kg/ac ½ of fertilizer at sowing and remaining at first node stage
	Other fertilizers (per ac or per plant)	-
6	Spacing (cms) requirement	
	Row to row	20cm

	Plant to plant	5cm
7	Soil requirement to attain potential yield	Flat fertile soil
8	Plant protection measures to attain potential yield	If a field has termite infestation, then seed can be treated with imidacloprid or chlorpyrifos @5ml/kg seed. Seed treatment with N&P biofertilizers can also be done to improve nutrients availability to the crop
9	Sowing window requirement to attain potential yield (zone-wise)	15 <sup>th</sup> October-10 <sup>th</sup> November
10	Number of irrigations required to attain potential yield (zonewise)	One irrigation, if available to be given at late tillering (40-45 DAS) is recommended for this variety to get more grain yield. Irrigation at dough or ripe stage is not advisable for this variety and irrigation or rainfall at this stage may decrease grain yield and impair grain quality
11	Best growing season to attain potential yield (zonewise)	Peninsular zone comprising of Maharashtra, Karnataka and plains of Tamil Nadu for cultivation under rainfed and timely sown conditions. Crop to be sown during 15 <sup>th</sup> October to 10 <sup>th</sup> November
12	Name the cropping/climatic zone of India in which the varietal trials were conducted	Peninsular zone comprising of Maharashtra, Karnataka and plains of Tamil Nadu
13	Intercultural operations	One or two hand weeding at 4 or 4 and 8 week crop stage respectively, is safe and sufficient to control multiple weed flora. Weedicide 'Pensimethalin' applied as pre-emergence @1000ml a.i/ha in 500l of water which controls both grassy and non-grassy weeds. All other are post-emergence weedicides generally applied at 2-4 leaf stage of weeds in standing crop. For broad leaf weeds 2, 4-D @0.5kg a.i/ha or metsulfuron methyl @4g a.i/ha can be used. If there are only grassy weeds, clodinafop propargyl @60g a.i/ha should be applied. In case of multiple weed flora, sulfosulfuron @25g a.i/ha or ready mix herbicides like vesta or atlantis @400ml/ha may be applied
14	Any other relevant information specific to the variety/hybrid	
<b>Commercial Attributes</b>		
1	Yield potential (average) per ha (q/ha) (zone-wise)	4.66q/ac
2	Seed yield/ac (average)	3.00 q/ac



16. Application No. 

E2	TD2	19	108
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 filed on 26.07.2019 by **Indian Council of Agricultural Research, Krishi Bhawan, New Delhi-110001** for a Extant (Notified) Variety of crop **Durum Wheat (*Triticum durum Desf.*)** having denomination **PUSA TEJAS (HI 8759)** 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** : PUSA TEJAS (HI 8759)  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Krishi Bhawan, New Delhi-110001  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

E2	TD2	19	108
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b. Date of receipt : 26.07.2019  
c. Date of acceptance : --  
Crop (taxonomical lineage) : Durum Wheat (*Triticum durum Desf.*)  
Denomination : PUSA TEJAS (HI 8759)  
Type of variety : Extant (Notified)  
Classification of variety : Typical  
Previously proposed : Not applicable  
Denomination :  
Name of parental material : HI 8663/HI 8498  
Source of parental material : Not applicable  
Name of reference varieties : HI 8498 and MPO 1215 Notification details  
Notification no. : S.O. 1007 (E), dated: 30.03.2017

**Variety description:**

<b>A. Group characteristics</b>	<b>Remarks (measured values)</b>
Coleoptile colouration (Characteristic 1)	Green
Flag leaf : Anthocyanin coloration of auricle (Characteristic 4)	Present
Time of ear emergence (Characteristic 7)	Medium
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)	None
<b>B. Distinct characteristics of candidate variety:</b>	

**PUSA TEJAS (HI 8759)** has distinguishing characteras plant growth habit erect, foliage colour dark green, flag leaf attitude erect, waxiness on leaf blade of flag leaf strong, flag leaf width intermediate and awn length medium.

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

**HI 8498** has distinguishing characters as plant growth habit semi erect, foliage colour green, flag leaf attitude erect, waxiness on leaf blade of flag leaf absent, flag leaf width broad and awn length very long.

**MPO 1215** has distinguishing characters as plant growth habit semi erect, foliage colour dark green, flag leaf attitude semi erect, waxiness on leaf blade of flag leaf absent, flag leaf width broad and awn length very long.

**D. Date of commercialization of the variety** | 04.11.2016

**E. Agronomic and commercial attributes**

S.No.	Attributes	Details
1	Growth habit	Erect
2	Days to heading (average)	72days
3	Days to physiological maturity (average)	117days
4	Seed rate per ac	50kg/ac
5	Recommended nutrition/ha schedule to attain potential yield and time of application	
	Organic (per ha)	
	Inorganic (per ac)	N:P:K 48:24:12 kg/ac ½ of fertilizer at sowing and remaining at first node stage
	Other fertilizers (per ac or per plant)	-
6	Spacing (cms) requirement	
	Row to row	20cm
	Plant to plant	5cm
7	Soil requirement to attain potential yield	Flat fertile soil
8	Plant protection measures to attain potential yield	If a field has termite infestation, then seed can be treated with imidacloprid or chlorpyrifos @5ml/kg seed. Seed treatment with N&P biofertilizers can also be done to improve nutrients availability to the crop
9	Sowing window requirement to attain potential yield (zonewise)	10 <sup>th</sup> November-25 <sup>th</sup> November
10	Number of irrigations required to attain potential yield (zonewise)	In addition to one come up irrigation, 4-5 irrigations at different crop stages like first irrigation at crown root initiation (20-22 DAS) second at late tillering (40-42 DAS), third at late jointing (60-65 DAS), fourth at flowering (80-85 DAS) and fifth at milking stage (100-105 DAS) are recommended for this variety

11	Best growing season to attain potential yield (zonewise)	Central zone (MP, Chattisgarh, Gujarat, Kota div. of Rajasthan and Jhansi div. of UP. Crop to be sown between 10-25 November
12	Name the cropping/climatic zone of India in which the varietal trials were conducted	Central zone (MP, Chattisgarh, Gujarat, Kota div. of Rajasthan and Jhansi div. of UP
13	Intercultural operations	One or two hand weeding at 4 or 4 and 8 week crop stage respectively, is safe and sufficient to control multiple weed flora. Weedicide 'Pensimethalin' applied as pre-emergence @1000ml a.i/ha in 500l of water which controls both grassy and non-grassy weeds. All other are post-emergence weedicides generally applied at 2-4 leaf stage of weeds in standing crop. For broad leaf weeds 2, 4-D @0.5kg a.i/ha or metsulfuron methyl @4g a.i/ha can be used. If there are only grassy weeds, clodinafop propargyl @60g a.i/ha should be applied. In case of multiple weed flora, sulfosulfuron @25g a.i/ha or ready mix herbicides like vesta or atlantis @400ml/ha may be applied
14	Any other relevant information specific to the variety/hybrid	
<b>Commercial Attributes</b>		
1	Yield potential (average) (q/ac) (zone-wise)	12.22 q/ac
2	Seed yield/ac(average)	9.21 q/ac

17. Application No. 

E4	TA4	19	109
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 filed on 26.07.2019 by **Indian Council of Agricultural Research, Krishi Bhawan, New Delhi-110001** for a Extant (Notified) Variety of crop **Bread Wheat (*Triticum aestivum* L.)** having denomination **PUSA Wheat 1612 (HI 1612)** has been accepted and given registration number -----NA -----on ----- NA ----  
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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** : PUSA Wheat 1612 (HI 1612)  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Krishi Bhawan, New Delhi-110001  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

E4	TA4	19	109
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b. Date of receipt : 26.07.2019

c. Date of acceptance : --  
 Crop (taxonomical lineage) : Bread Wheat (*Triticum aestivum* L.)  
 Denomination : PUSA Wheat 1612 (HI 1612)  
 Type of variety : Extant (Notified)  
 Classification of variety : Typical  
 Previously proposed : Not applicable  
 Denomination :  
 Name of parental material : Kauz//Altar 84/AOS/3/Milan/Kauz/4/Huites  
 Source of parental material : CIMMYT nursery 2007-08: 28<sup>th</sup> ESWYT-113  
 Name of reference varieties : C 306 and HD 2888  
 Notification details : Notification no. S.O. 1379 (E), dated: 27.03.2018

### Variety description:

A. Group characteristics		Remarks (measured values)
Flag leaf : Anthocyanin coloration of auricle (Characteristic 4)		Green
Time of ear emergence (Characteristic 7)		Medium
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)		None
<b>B. Distinct characteristics of candidate variety:</b> <b>PUSA Wheat 1612 (HI 1612)</b> has distinguishing characteras semi erect plant growth habit, absent hairs on auricles of flag leaf, strong waxiness on leaf sheath of flag leaf, strong waxiness on leaf blade of flag leaf, strong ear waxiness, short awn length, spreading awn attitude, absent pubescence on outer glume,peduncle attitude at maturity is bent.		
<b>C. Distinct characteristics of reference varieties:</b> <b>C 306</b> has distinguishing characters as intermediate plant growth habit, moderate hairs on auricles of flag leaf, medium waxiness on leaf sheath of flag leaf, absent waxiness on leaf blade of flag leaf, ear waxiness absent, long awn length, medium awn attitude, moderate pubescence on outer glume, peduncle attitude at maturity is spreading. <b>HD 2888</b> has distinguishing characters as intermediate plant growth habit, very strong hairs on auricles of flag leaf, medium waxiness on leaf sheath of flag leaf, absent waxiness on leaf blade of flag leaf, ear waxiness absent, medium awn length, medium awn attitude, very strong pubescence on outer glume, peduncle attitude at maturity is straight.		
<b>D. Date of commercialization of the variety</b>		16.10.2018
<b>E. Agronomic and commercial attributes</b>		
S.No.	Attributes	Details
1	Growth habit	Semi-erect
2	Days to heading (average)	85-90days
3	Days to physiological maturity (average)	125-130days
4	Seed rate per ac	40kg

5	Recommended nutrition/ha schedule to attain potential yield and time of application	
	Organic (per ha)	
	Inorganic (per ha)	N:P:K 32:16:8 kg/ac ½ of fertilizer at sowing and remaining at first node stage
	Other fertilizers (per ac or per plant)	-
6	Spacing (cms) requirement	
	Row to row	20cm
	Plant to plant	5cm
7	Soil requirement to attain potential yield	Flat fertile soil
8	Plant protection measures to attain potential yield	If a field has termite infestation, then seed can be treated with imidacloprid or chlorpyrifos @5ml/kg seed.
9	Sowing window requirement to attain potential yield (zonewise)	25 <sup>th</sup> October-10 <sup>th</sup> November
10	Number of irrigations required to attain potential yield (zonewise)	In addition to one come up irrigation, two irrigations at different crop stages like first irrigation at late tillering (40-45 DAS), second at late jointing (70-75 DAS) are recommended for this variety. Irrigations at dough or ripe stage is not advisable for this variety and irrigations or rainfall at this stage may decrease grain yield and impair grain quality
11	Best growing season to attain potential yield (zonewise)	North eastern plains zone comprising of eastern UP, Bihar, Jharkhand, WB and Assam for cultivation under restricted irrigation and timely sown conditions. Crop to be sown between 25 <sup>th</sup> October-10 <sup>th</sup> November
12	Name the cropping/climatic zone of India in which the varietal trials were conducted	North eastern plains zone comprising of eastern UP, Bihar, Jharkhand, WB and Assam
13	Intercultural operations	One or two hand weeding at 4 or 4 and 8 week crop stage respectively, is safe and sufficient to control multiple weed flora. Weedicide 'Pensimethalin' applied as pre-emergence @1000ml a.i/ha in 500l of water which controls both grassy and non-grassy weeds. All other are post-emergence weedicides generally applied at 2-4 leaf stage of weeds in standing crop. For broad leaf weeds 2, 4-D @0.5kg a.i/ha or metsulfuronmethyl @4g a.i/ha can be used. If there are only grassy weeds, clodinafop

		propargyl @60g a.i/ha should be applied. In case of multiple weed flora, sulfosulfuron @25g a.i/ha or ready mix herbicides like vesta or atlantis @400ml/ha may be applied
14	Any other relevant information specific to the variety/hybrid	
<b>Commercial Attributes</b>		
1	Yield potential (average) (q/ac) (zone-wise)	8.18 q/ac
2	Seed yield/ac (average)	6.08 q/ac

18. Application No. 

E5	TA5	19	110
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 filed on 26.07.2019 by **Indian Council of Agricultural Research, Krishi Bhawan, New Delhi-110001** for a Extant (Notified) Variety of crop **Bread Wheat (*Triticum aestivum* L.)** having denomination **PUSA UJALA (HI 1605)** 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** : PUSA UJALA (HI 1605)  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Krishi Bhawan, New Delhi-110001  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

E5	TA5	19	110
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b. Date of receipt : 26.07.2019  
c. Date of acceptance : --  
Crop (taxonomical lineage) : Bread Wheat (*Triticum aestivum* L.)  
Denomination : PUSA UJALA (HI 1605)  
Type of variety : Extant (Notified)  
Classification of variety : Typical  
Previously proposed : Not applicable  
Denomination :  
Name of parental material : BOW/VEE/5/ND/V G9144//KAL/BB/3/YACO/4/  
CHIL/6/CASKOR/3/CROC\_1/AE.SQUARROSA(224)//  
OPATA/7/PASTOR//MILAN/KAUZ/3/BAV92  
Source of parental material : CIMMYT nursery 2011-12: 4CSISA-DRYT-5203  
Name of reference varieties : NI 5439, NIAW 1415 and DBW 93  
Notification details : Notification no. S.O. 1007 (E), dated: 30.03.2017

**Variety description:**

A. Group characteristics	Remarks (measured values)
Flag leaf : Anthocyanin coloration of auricle (Characteristic 4)	Purple

Time of ear emergence (Characteristic 7)	Medium	
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)	Medium	
<b>B. Distinct characteristics of candidate variety:</b>		
<b>PUSA UJALA (HI 1605)</b> has distinguishing characters waxiness on leaf blade of flag leaf strong, ear waxiness strong, medium plant height, long ear length, spreading awn attitude, straight lower glume shoulder shape.		
<b>C. Distinct characteristics of reference varieties:</b>		
<b>NI 5439</b> has distinguishing characters as waxiness on leaf blade of flag leaf absent, ear waxiness medium, tall plant height, medium ear length, medium awn attitude, straight elevated lower glume shoulder shape.		
<b>NIAW 1415</b> has distinguishing characters as waxiness on leaf blade of flag leaf absent, ear waxiness medium, short plant height, long ear length, medium awn attitude, round lower glume shoulder shape.		
<b>DBW 93</b> has distinguishing characters as waxiness on leaf blade of flag leaf medium, ear waxiness medium, short plant height, medium ear length, medium awn attitude, elevated lower glume shoulder shape.		
<b>D. Date of commercialization of the variety</b>	04.11.2016	
<b>E. Agronomic and commercial attributes</b>		
<b>S.No.</b>	<b>Attributes</b>	<b>Details</b>
1	Growth habit	Semi-erect
2	Days to heading (average)	60days
3	Days to physiological maturity (average)	105days
4	Seed rate per ac	40kg/ac
5	Recommended nutrition/ha schedule to attain potential yield and time of application	
	Organic (per ha)	
	Inorganic (per ac)	N:P:K 32:16:8 kg/ac ½ of fertilizer at sowing and remaining at first node stage
6	Other fertilizers (per ac or per plant)	-
	Spacing (cms) requirement	
	Row to row	20cm
	Plant to plant	5cm
7	Soil requirement to attain potential yield	Flat fertile soil
8	Plant protection measures to attain potential yield	If a field has termite infestation, then seed can be treated with imidacloprid or chlorpyrifos @5ml/kg seed. Seed treatment

		with N & P bio-fertilizers can also be done to improve nutrients availability to the crop
9	Sowing window requirement to attain potential yield (zonewise)	25 <sup>th</sup> October-10 <sup>th</sup> November
10	Number of irrigations required to attain potential yield (zonewise)	In addition to one come up irrigation, two irrigations at different crop stages like first irrigation at late tillering (40-45 DAS), second at late jointing (70-75 DAS) are recommended for this variety. Irrigations at dough or ripe stage is not advisable for this variety and irrigations or rainfall at this stage may decrease grain yield and impair grain quality
11	Best growing season to attain potential yield (zonewise)	Peninsular zone comprising of Maharashtra, Karnataka and plains of Tamil Nadu for cultivation under restricted irrigation and timely sown conditions. Crop to be sown between 25 <sup>th</sup> October-10 <sup>th</sup> November
12	Name the cropping/climatic zone of India in which the varietal trials were conducted	Peninsular zone comprising of Maharashtra, Karnataka and plains of Tamil Nadu
13	Intercultural operations	One or two hand weeding at 4 or 4 and 8 week crop stage respectively, is safe and sufficient to control multiple weed flora. Weedicide 'Pensimethalin' applied as pre-emergence @1000ml a.i/ha in 500l of water which controls both grassy and non-grassy weeds. All other are post-emergence weedicides generally applied at 2-4 leaf stage of weeds in standing crop. For broad leaf weeds 2, 4-D @0.5kg a.i/ha or metsulfuron methyl @4g a.i/ha can be used. If there are only grassy weeds, clodinafop propargyl @60g a.i/ha should be applied. In case of multiple weed flora, sulfosulfuron @25g a.i/ha or ready mix herbicides like vesta or atlantis @400ml/ha may be applied
14	Any other relevant information specific to the variety/hybrid	
<b>Commercial Attributes</b>		
1	Yield potential (average) (q/ac) (zonewise)	7.12 q/ac
2	Seed yield/ac (average)	4.71 q/ac

19. Application No. 

E3	TA3	19	106
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 filed on 23.07.2019 by **Indian Council of Agricultural Research, Krishi Bhawan, New Delhi-110001** for a Extant (Notified) Variety of



crop **Bread Wheat** (*Triticum aestivum* L.) having denomination **Karan Vandana (DBW 187)** 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** : Karan Vandana (DBW 187)  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Krishi Bhawan, New Delhi-110001  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

E3	TA3	19	106
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b. Date of receipt : 23.07.2019  
c. Date of acceptance : --  
Crop (taxonomical lineage) : Bread Wheat (*Triticum aestivum* L.)  
Denomination : Karan Vandana (DBW 187)  
Type of variety : Extant (Notified)  
Classification of variety : Typical  
Previously proposed : Not applicable  
Denomination :  
Name of parental material : NAC/TH.AC//3\*PVN/3/MIRLO/BUC/4/2\*PASTOR/5  
/KACHU/6/KACHU  
Source of parental material : CIMMYT, Mexico  
Name of reference varieties : DBW 39 and WH 1021  
Notification details : Notification no. S.O. 1498 (E), dated: 01.04.2019

**Variety description:**

<b>A. Group characteristics</b>	<b>Remarks (measured values)</b>
Flag leaf : Anthocyanin coloration of auricle (Characteristic 4)	Absent
Time of ear emergence (Characteristic 7)	Medium
Plant length (Characteristic 15)	Medium
Awns or Scurs presence (Characteristic 18)	Awns present
Outer glume : Pubescence (Characteristic 23)	Absent
Ear :Colour (Characteristic 24 )	White
Season type (Characteristic 37)	Spring
Grain Hardness (Characteristic 38)	Hard
<b>B. Distinct characteristics of candidate variety:</b> <b>Karan Vandana (DBW 187)</b> has distinguishing character as absent flag leaf hairs on auricles, medium waxiness on leaf sheath of flag leaf, very long ear length.	
<b>C. Distinct characteristics of reference varieties:</b>	

<b>DBW 39</b> has distinguishing characters as medium flag leaf hairs on auricles, strong waxiness on leaf sheath of flag leaf, long ear length.		
<b>WH 1021</b> has distinguishing characters as medium flag leaf hairs on auricles, very strong waxiness on leaf sheath of flag leaf, medium ear length.		
<b>D. Date of commercialization of the variety</b>		01.04.2019
<b>E. Agronomic and commercial attributes</b>		
<b>S.No.</b>	<b>Attributes</b>	<b>Details</b>
1	Growth habit	Intermediate
2	Days to heading (average)	77 (62-85)days
3	Days to physiological maturity (average)	120 (110-140)days
4	Seed rate per ac	40kg/ac line sowing with spacing of 20cm between the rows
5	Recommended nutrition/ha schedule to attain potential yield and time of application	
	Organic (per ha)	
	Inorganic (per ha)	For medium fertility soil N: 48-60kg/ac : P 16-24kg/ac : K 16kg/ac fertilizer application should be based on soil test
	Other fertilizers (per ac or per plant)	-
6	Spacing (cms) requirement	
	Row to row	20cm
	Plant to plant	5cm
7	Soil requirement to attain potential yield	Medium fertility soil, flat fertile soil
8	Plant protection measures to attain potential yield	Seed treatment: Vitavax (Carboxin 37.5%+Thiram 37.5%) @2-3g/kg 5% Aldrin or Chlordane dust with the soil just at the time of sowing or during preparation of the land for effective control of termite
9	Sowing window requirement to attain potential yield (zonewise)	5 <sup>th</sup> -25 <sup>th</sup> November
10	Number of irrigations required to attain potential yield (zonewise)	5-6 irrigations (at crown root initiation, tiller completion, late jointing, flowering, milk and dough stages)
11	Best growing season to attain potential yield (zonewise)	North eastern plains zone (eastern UP, Bihar, Jharkhand, Odisha, WB, Assam and plains of north eastern states) crop to be sown between 5 <sup>th</sup> -25 <sup>th</sup> November
12	Name the cropping/climatic zone of India in which the varietal trials were conducted	North eastern plains zone (eastern UP, Bihar, Jharkhand, Odisha, WB, Assam and plains of north eastern states)
13	Intercultural operations	For the control of broad leaved weeds 2,4 D @500g/ha or metasulfuron active ingredient

		@4g/ha or carfentrazone @20g/ha can be sprayed using about 250l of water/ha. For the control of grasses isoproturon @1000g /clodinafop @60g/fenoxaprop @100g/sulfosulfron @25g/ha should be used. In isoproturon resistant Phalaris. <i>minor</i> infested areas clodinafop or fenoxaprop or sulfosulfuron can be used. For the control of complex weed flora combination of isoproturon with 2,4-D/metsulfuron or sulfosulfuron with metsulfuron can be applied at 30-35 DAS at sufficient soil moisture.
14	Any other relevant information specific to the variety/hybrid	
<b>Commercial Attributes</b>		
1	Yield potential (average) per ha (q/ha) (zonewise)	10.36q/ac
2	Seed yield/ac (average)	7.8 q/ac

20. Application No. 

E2	ST2	19	44
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 filed on 11.04.2019 by **Indian Council of Agricultural Research, Krishi Bhawan, New Delhi-110001** for a Extant (Notified) Variety of crop **Potato** (*Solanum tuberosum* L.) having denomination **KUFRI FRYSONA** 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** : KUFRI FRYSONA  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Krishi Bhawan, New Delhi-110001  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

E2	ST2	19	44
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b. Date of receipt : 11.04.2019  
c. Date of acceptance : --  
Crop (taxonomical lineage) : Potato (*Solanum tuberosum* L.)  
Denomination : KUFRI FRYSONA  
Type of variety : Extant (Notified)  
Classification of variety : Typical  
Previously proposed : Not applicable  
Denomination :  
Name of parental material : MP/92-30 x MP/90-94

Source of parental material : Both parental lines MP/92-30 and MP/90-94 are advanced hybrids of Indian origin developed by CPRI, Shimla  
 Name of reference varieties : Kufri Surya and Kufri Chipsona-1  
 Notification details : Notification no. S.O. 1979 (E), dated:12.08.2010

**Variety description:**

<b>A. Group characteristics</b>		<b>Remarks (measured values)</b>
Lightsprout: Predominant colour (Characteristic 1)		Red-purple
Stem : Predominant colour (Characteristic 11)		Green
Flower: Corolla colour (Characteristic 29)		Red violet
Tuber: Predominant skin colour (Characteristic 43)		White cream
<b>B. Distinct characteristics of candidate variety:</b> KUFRI FRYSONA has distinguishing character as oblong tuber shape, off-white flesh, 75-100mm tuber size		
<b>C. Distinct characteristics of reference varieties:</b> Kufri Surya has distinguishing characters as oblong tuber shape, yellow flesh, 72-102mm tuber size Kufri Chipsona-1 has distinguishing characters as oval-oblong tuber shape, off-white, 72-90mm tuber size		
<b>D. Date of commercialization of the variety</b>		12.08.2010
<b>E. Agronomic and commercial attributes</b>		
<b>S.No.</b>	<b>Attributes</b>	<b>Details</b>
1	Growth habit (determinate/indeterminate)	Determinate
2	Days to flowering/anthesis (average)	50-60 days
3	Days to maturity (average)	110-120days
4	Planting material/seed material requirement	10-12q/ac of 40-50g tubers
5	Fertilizer requirement to attain potential yield and time of application	
	Organic (per ha)	Green manure and 10t FYM incorporation in soil before planting
	Inorganic (per ac)	Fertilizers 108kg N, 32kg P <sub>2</sub> O <sub>5</sub> and 60kg K <sub>2</sub> O with 50% N applied at the time of planting and the remaining 50% at earthing up.
6	Other fertilizers (per ac or per plant)	-
	Spacing (cms) requirement to attain potential yield	
	Row to row	67.5cm
	Plant to plant	25cm

7	Soil requirement to attain potential yield	Neutral to slightly alkaline to slightly acidic alluvial soils, sandy loam in texture.
8	Plant protection measures to attain potential yield	Imidacloprid 200 SL @0.3ml/L or Thiamethoxam 25 WG @0.5g/L for virus vectors (seed crop only). Need based sprays of Mancozeb (0.25%) and Cymoxnil + Mancozeb (0.3%) for late blight
9	Sowing window requirement to attain potential yield (zonewise)	Second fortnight of October in north central plains
10	Number of irrigations required to attain potential yield (zonewise)	According to soil type. Approx. 4-5 irrigations
11	Best growing season to attain potential yield (zonewise)	Rabi season
12	Name the cropping/climatic zone of India in which the varietal trials were conducted	Patna (Bihar), Meerut, Babugarh, Faizabad, Ghaziabad, Bisoli (Badaun), Timarwa (Farrukhabad) and Sadabad (Agra) in UP, Datoda (Indore) in MP, Burdhan, Kalyani (WB), Jalandhar (Punjab), Bhubaneshwar (Orissa), Kota (Rajasthan) and Hisar (Haryana)
13	Any other relevant information specific to the variety	KufriFrysona is first high yielding potato variety for French fries in India
<b>Commercial Attributes</b>		
1	Yield potential (average) per ac	120-140 q/ac
2	Yield of tubers per plant (average)	500-600g

21. Application No. 

N39	OS762	14	1206
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 filed on 21.05.2014 by **Bayer Crop Science LP, 2 T.W. Alexander Drive, Research Triangle Park, NC 277009** for **New** variety of crop **Rice** (*Oryza sativa* L. ) having denomination **B099** 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** : B099  
**Applicant** : Bayer Crop Science LP  
**Address of the applicant** : 2 T.W. Alexander Drive, Research Triangle Park, NC 277009  
**Nationality of applicant** : Indian  
**Application details**  
a. Number : 

N39	OS762	14	1206
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b. Date of receipt : 21.05.2014  
c. Date of acceptance : --  
Crop (Taxonomical lineage) : Rice (*Oryza sativa* L.)

Denomination	: B099
Type of variety	: New
Classification of variety	: Typical
Previously proposed denomination	: Not applicable
Name of parental material	: B067, B006
Source of parental material	: Own germplasm
Name of reference varieties	: IR 64, Karjat 4

### Variety Description:

A. Grouping Characteristics	Remarks (measured values)
Basal leaf: Sheath colour (Characteristic 2)	Green
Time of heading (50% of plants with panicles) (Characteristic 20)	Medium
Stem: Length (excluding panicle; excluding floating rice) (Characteristic 29)	Very short
Decorticated grain: Length (Characteristic 54)	Very short
Decorticated grain: Shape (in lateral view) (Characteristic 56)	Medium slender
Decorticated grain: Colour (Characteristic 57)	Light brown
Endosperm: Content of amylose (Characteristic 59)	Medium
Decorticated grain: Aroma (Characteristic 62)	Absent
<b>B. Distinct Characteristics: B099</b> has distinguishing character as Panicle: Attitude of branches Erect to semi-Erect.	
<b>C. Reference variety: IR 64</b> has distinguishing character as Panicle: Attitude of branches Semi-erect to Spreading. <b>Karjat 4</b> has distinguishing character as Panicle: Attitude of branches Semi-erect to Spreading.	
<b>D. Date of commercialization of the variety</b>	--
<b>E. Agronomic and Commercial Attributes</b>	

Sl.no.	Agronomic and Commercial Attributes	Details
1.	Days to flowering/Anthesis (Average)	91-110 days
2.	Days to Maturity (Early/Medium/Late)	121-140 days
3.	Production condition: suitable area in the country	Karimnagar, Warangal, Khamam (AP and Telangana)
4.	Time of Sowing	First week of June
	Irrigated /Ranifed	Irrigated
	Low fertility /High fertility of Soil	Both
5.	Tolerance to Disease and Pests	NA
6.	Tolerance to adverse Temperature/ Frost/Heat/Salinity	NA
7.	Grain characters physical	

	a) Kernal size	Long
	b) Seed lustre (Present/Absent)	NA
	c) Seed colour	Dark brown
8.	Grain yield per hectare (kg/ha)	3-4 t/ha
9.	Seed: weight (100 seed weight in g)	Low (15-20 g)
10.	Any other relevant information specific to the variety/Hybrid to attain potential yield	Timely sowing and following package of practices

22. Application No. 

F709	OS766	15	1797
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 filed on **29.09.2015** by **Amarkan Rural Socio-Environmental Welfare Society (ARSW Society), Village: Ranbahal, PO: Amarkan, Dist: Bankura** for **Farmer** variety of crop **Rice** (*Oryza sativa* L.) having denomination **KHAJURCHARI-III** 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** : KHAJURCHARI-III  
**Applicant** : Amarkan Rural Socio-Environmental Welfare Society (ARSW Society)  
**Address of the applicant** : Village: Ranbahal, PO: Amarkan, Dist: Bankura  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

F709	OS766	15	1797
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b. Date of receipt : 29.09.2015  
c. Date of acceptance : --  
Crop (Taxonomical lineage) : Rice (*Oryza sativa* L.)  
Denomination : KHAJURCHARI-III  
Type of variety : Farmer  
Classification of variety : Typical  
Previously proposed denomination : Not applicable  
Name of reference varieties : BPT-5204, ASD 3

**Variety description:**

<b>A. Grouping characteristics</b>	<b>Remarks (measured values)</b>
Basal leaf: Sheath colour(Characteristic 2)	Green
Time of heading (50% of plants with panicles) (Characteristic 20)	Late

Stem: Length (excluding panicle; excluding floating rice) (Characteristic 29)	Short (91-110 cm)
Decorticated grain: Length(Characteristic 54)	Short
Decorticated grain: Shape (in lateral view) (Characteristic 56)	Medium slender
Decorticated grain: Colour (Characteristic 57)	Light brown
Endosperm: Content of amylase(Characteristic 59)	High (26-30%)
Decorticated grain: Aroma (Characteristic 62)	Absent
<b>B. Distinct characteristics of candidate variety:</b> <b>KHAJURCHARI-III</b> has distinguishing character Medium green colour of the leaf Intensity; Weak spikelet density of pubescence of lemma; Panicles exertion: Well exerted.	
<b>C. Distinct characteristics of reference varieties:</b> <b>BPT-5204</b> has distinguishing character Dark green colour of the leaf Intensity; Medium spikelet density of pubescence of lemma; Panicles exertion: Mostly exerted. <b>ASD 3</b> has distinguishing character Dark green colour of the leaf Intensity; Weak spikelet density of pubescence of lemma; Panicles exertion: Well exerted.	
<b>Agronomic and Commercial Attributes</b>	<b>Details</b>
1 Days to flowering/Anthesis (Average)	82 days
2 Days to Maturity (Early/Medium/Late)	Late
3 Production condition: suitable area in the country	Red and lateritic agro-climatic zone of the West Bengal
4 Time of Sowing	Kharif season (June-July to September-October)
5 Irrigated /Rainfed	Rainfed medium land
6 Low fertility /High fertility of Soil	Low fertility
7 Tolerance to Disease and Pests	Not evaluated
8 Tolerance to adverse Temperature/ Frost/Heat/Salinity	Not evaluated
9 Grain characters physical	
a) Kernel size	Medium slender
b) Seed lustre	Absent
c) Seed colour	Straw
10 Grain yield per hectare (kg/ha)	4773 kg/ha
11 Seed weight (100 seed weight in g)	2.57 g
12 Any other relevant information specific to the variety/Hybrid to attain potential yield	Presence of multiple spikelets in the nodes of the secondary branching of the panicle

23. Application No. 

F711	OS768	15	1799
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 filed on **29.09.2015** by **Amarkanan Rural Socio-Environmental Welfare Society (ARSW Society), Village: Ranbahal, PO: Amarkanan,**



**Dist: Bankura** for **Farmer** variety of crop **Rice** (*Oryza sativa* L.) having denomination **KALO GANDHESWARI** 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** : KALO GANDHESWARI  
**Applicant** : Amarkanan Rural Socio-Environmental Welfare Society (ARSW Society)  
**Address of the applicant** : Village: Ranbahal, PO: Amarkanan, Dist: Bankura  
**Nationality of applicant** : Indian  
**Application details**  
a. Number : 

F711	OS768	15	1799
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b. Date of receipt : 29.09.2015  
c. Date of acceptance : --  
**Crop (Taxonomical lineage)** : Rice (*Oryza sativa* L.)  
**Denomination** : KALO GANDHESWARI  
**Type of variety** : Farmer  
**Classification of variety** : Typical  
**Previously proposed denomination** : Not applicable  
**Name of reference varieties** : BPT 5204, ASD 3, NLR 33358

**Variety description:**

<b>A. Grouping characteristics</b>	<b>Remarks (measured values)</b>
Basal leaf: Sheath colour(Characteristic 2)	Green
Time of heading (50% of plants with panicles)(Characteristic 20)	Late
Stem: Length (excluding panicle; excluding floating rice)(Characteristic 29)	Medium
Decorticated grain: Length(Characteristic 54)	Short
Decorticated grain: Shape (in lateral view)(Characteristic 56)	Medium slender
Decorticated grain: Colour(Characteristic 57)	Light brown
Endosperm: Content of amylase(Characteristic 59)	Medium
Decorticated grain: Aroma(Characteristic 62)	Absent
<b>B. Distinct characteristics of candidate variety:</b> <b>KALO GANDHESWARI</b> has distinguishing character Spikelet: weak density of pubescence of lemma, Narrow width decorticated grain.	

<b>C. Distinct characteristics of reference varieties:</b>		
<b>BPT 5204</b> has distinguishing character Spikelet: medium density of pubescence of lemma, medium width decorticated grain		
<b>T-23</b> has distinguishing character Spikelet: strong density of pubescence of lemma, medium width decorticated grain		
<b>Agronomic and Commercial Attributes</b>		
<b>Details</b>		
1	Days to flowering/Anthesis (Average)	98 days
2	Days to Maturity (Early/Medium/Late)	Late
3	Production condition: suitable area in the country	Red and lateritic agro-climatic zone of the West Bengal
4	Time of Sowing	Kharif season (June-July to September-October)
5	Irrigated /Rainfed	Rainfed medium land
6	Low fertility /High fertility of Soil	Low fertility
7	Tolerance to Disease and Pests	Not evaluated
8	Tolerance to adverse Temperature/ Frost/Heat/Salinity	Not evaluated
9	Grain characters physical	
	a) Kernel size	Short slender
	b) Seed lustre	Absent
	c) Seed colour	Light brown
10	Grain yield per hectare (kg/ha)	906 kg/ha too low, check
11	Seed weight (100 seed weight in g)	1.4g check
12	Any other relevant information specific to the variety/Hybrid to attain potential yield	Fragrant Variety

24. Application No. 

F710	OS767	15	1798
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 on **29.09.2015** by **Amarkanan Rural Socio-Environmental Welfare Society (ARSW Society), Village: Ranbahal, PO: Amarkanan, Dist: Bankura** for Farmer variety of crop **Rice (*Oryza sativa* L.)** having denomination **MIHI GANDHESWARI** 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** : MIHI GANDHESWARI

**Applicant** : Amarkanan Rural Socio-Environmental Welfare Society (ARSW Society)  
**Address of the applicant** : Village: Ranbahal, PO: Amarkanan, Dist: Bankura  
Nationality of applicant : Indian  
**Application details**

F710	OS767	15	1798
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a. Number :  
b. Date of receipt : 29.09.2015  
c. Date of acceptance : --  
Crop (Taxonomical lineage) : Rice (*Oryza sativa* L.)  
Denomination : MIHI GANDHESWARI  
Type of variety : Farmer  
Classification of variety : Typical  
Previously proposed denomination : Not applicable  
Name of reference varieties : Savitri, KARJAT 3

**Variety description:**

A. Grouping characteristics	Remarks (measured values)
Basal leaf: Sheath colour(Characteristic 2)	Green
Time of heading (50% of plants with panicles)(Characteristic 20)	Late
Stem: Length (excluding panicle; excluding floating rice)(Characteristic 29)	Very short
Decorticated grain: Length(Characteristic 54)	Short
Decorticated grain: Shape (in lateral view)(Characteristic 56)	Short bold
Decorticated grain: Colour(Characteristic 57)	White
Endosperm: Content of amylose(Characteristic 59)	Medium
Decorticated grain: Aroma(Characteristic 62)	Absent
<b>B. Distinct characteristics of candidate variety:</b> <b>MIHI GANDHESWARI</b> has distinguishing character Long (>45 cm) leaf length of blade, Long (26-30 cm) panicle length of main axis; Medium content of amylose	
<b>C. Distinct characteristics of reference varieties:</b> <b>Savitri</b> has distinguishing character Leaf: Length of blade:Medium, Panicle: Length of main axis: Short; Endosperm: Content of amylose high <b>KARJAT 3</b> has distinguishing character Leaf: Length of blade:Medium; Panicle: Length of main axis:Short; Endosperm: Content of amylose:Medium.	
<b>D. Agronomic and Commercial Attributes</b>	
Agronomic Attributes	Details
1 Days to flowering/Anthesis (Average)	75 days
2 Days to Maturity (Early/Medium/Late )	Late
3 Production condition: suitable area in the country	Red and lateritic agro-climatic zone of the West Bengal

4	Time of Sowing	Kharif season (June-July to September-October)
5	Irrigated /Rainfed	Rainfed medium land
6	Low fertility /High fertility of Soil	Low fertility
7	Tolerance to Disease and Pests	Not evaluated
8	Tolerance to adverse Temperature/ Frost/Heat/Salinity	Not evaluated
9	Grain characters physical	
	a) Kernel size	Short bold
	b) Seed 60uster	Absent
	c) Seed colour	--
10	Grain yield per hectare (kg/ha)	850 kg/ha
11	Seed weight (100 seed weight in g)	1.36g
12	Any other relevant information specific to the variety/Hybrid to attain potential yield	Fragrant Variety

25. Application No. 

F708	OS765	15	1796
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 filed on **29.09.2015** by **Amarkanan Rural Socio-Environmental Welfare Society (ARSW Society), Village: Ranbahal, PO: Amarkanan, Dist: Bankura** for farmer variety of crop **Rice (*Oryza sativa* L.)** having denomination **PARAMANANDA** 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** : PARAMANANDA  
**Applicant** : Amarkanan Rural Socio-Environmental Welfare **Society** (ARSW Society)  
**Address of the applicant** : Village: Ranbahal, PO: Amarkanan, Dist: Bankura  
Nationality of applicant : Indian  
Application details : 

F708	OS765	15	1796
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a. Number :  
b. Date of receipt : 29.09.2015  
c. Date of acceptance : --  
Crop (Taxonomical lineage) : Rice (*Oryza sativa* L.)  
Denomination : PARAMANANDA  
Type of variety : Farmer  
Classification of variety : Typical  
Previously proposed denomination : Not applicable  
Name of reference varieties : RCM 5, NLR 3049

**Variety description:**

<b>A. Grouping characteristics</b>		<b>Remarks (measured values)</b>
Basal leaf: Sheath colour(Characteristic 2)		Green
Time of heading (50% of plants with panicles)(Characteristic 20)		Medium
Stem: Length (excluding panicle; excluding floating rice)(Characteristic 29)		Short (91-110 cm)
Decorticated grain: Length(Characteristic 54)		Medium
Decorticated grain: Shape (in lateral view)(Characteristic 56)		Long bold
Decorticated grain: Colour(Characteristic 57)		White
Endosperm: Content of amylase(Characteristic 59)		Medium
Decorticated grain: Aroma(Characteristic 62)		Present
<b>B. Distinct characteristics of candidate variety:</b>		
<b>PARAMANANDA</b> has distinguishing character Leaf: Pubescence of blade surface: Strong; Flag leaf: Attitude of blade (early observation): Horizontal; Spikelet: Colour of stigma: Yellow; Flag leaf: Attitude of blade (late observation):Horizontal; Panicle: Curvature of main axis: Semi-straight; Panicle: Awns: Present.		
<b>C. Distinct characteristics of reference varieties:</b>		
<b>RCM 5</b> has distinguishing character: Leaf: Pubescence of blade surface: Weak; Flag leaf: Attitude of blade (early observation): Semi-erect; Spikelet: Colour of stigma: Purple; Flag leaf: Attitude of blade (late observation): Deflexed; Panicle: Curvature of main axis: Semi- Deflexed; Panicle: Awns: Absent.		
<b>NLR 3049</b> has distinguishing characterLeaf: Pubescence of blade surface: Very strong; Flag leaf: Attitude of blade (early observation): Erect, Spikelet: Colour of stigma: White; Flag leaf: Attitude of blade (late observation):Horizontal; Panicle: Curvature of main axis; Semi- Semi-straight; Panicle: Awns: Absent		
<b>D. Agronomic and Commercial Attributes</b>		
<b>Agronomic Attributes</b>		<b>Details</b>
1	Days to flowering/Anthesis (Average)	73 days
2	Days to Maturity (Early/Medium/Late )	Late
3	Production condition: suitable area in the country	Red and lateritic agroclimatic zone of the West Bengal
4	Time of Sowing	Kharif season (June-July to September-October)
5	Irrigated /Rainfed	Rainfed medium land
6	Low fertility /High fertility of Soil	Low fertility
7	Tolerance to Disease and Pests	Not evaluated
8	Tolerance to adverse Temperature/ Frost/Heat/Salinity	Not evaluated
9	Grain characters physical grain or seed	
	a) Kernel size	Long Bold
	b) Seed lustre	Absent
	c) Seed colour	
10	Grain yield per hectare (kg/ha)	690 kg/ha
11	Seed weight (100 seed weight in g)	2.61 g

12	Any other relevant information specific to the variety/Hybrid to attain potential yield	Fragrant variety with awn
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26. Application No. 

F717	OS774	15	1805
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 filed on **29.09.2015** by **Amarkan Rural Socio-Environmental Welfare Society (ARSW Society)**, **Village: Ranbahal, PO: Amarkan, Dist: Bankura** for **farmer** variety of crop **Rice (*Oryza sativa L.*)** having denomination **SHYAM** 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** : SHYAM  
**Applicant** : Amarkan Rural Socio-Environmental Welfare Society (ARSW Society)  
**Address of the applicant** : Village: Ranbahal, PO: Amarkan, Dist: Bankura  
**Nationality of applicant** : Indian  
**Application details**  
a. Number : 

F717	OS774	15	1805
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b. Date of receipt : 29.09.2015  
c. Date of acceptance : --  
**Crop (Taxonomical lineage)** : Rice (*Oryza sativa L.*)  
**Denomination** : SHYAM  
**Type of variety** : Farmer  
**Classification of variety** : Typical  
**Previously proposed denomination** : Not applicable  
**Name of reference varieties** : Salivahana

**Variety description:**

<b>A. Grouping characteristics</b>	<b>Remarks (measured values)</b>
Basal leaf: Sheath colour(Characteristic 2)	Green
Time of heading (50% of plants with panicles) (Characteristic 20)	Late
Stem: Length (excluding panicle; excluding floating rice) (Characteristic 29)	Short (91-110 cm)
Decorticated grain: Length(Characteristic 54)	Short
Decorticated grain: Shape (in lateral view) (Characteristic 56)	Short bold
Decorticated grain: Colour (Characteristic 57)	Light brown
Endosperm: Content of amylase (Characteristic 59)	Medium

Decorticated grain: Aroma (Characteristic 62)		Absent
<b>B. Distinct characteristics of candidate variety:</b>		
SHYAM has distinguishing character Flag leaf: Attitude of blade (early observation): Semi-erect; Spikelet: Density of pubescence of lemma: Weak; Decorticated grain: Width: Narrow		
<b>C. Distinct characteristics of reference varieties:</b>		
Salivahanah has distinguishing character Erect; Spikelet: Density of pubescence of lemma: Strong; Decorticated grain: Width: Medium		
<b>D. Agronomic and Commercial Attributes</b>		
S.no.	Agronomic and Commercial Attributes	Details
1	Days to flowering/Anthesis (Average)	80 days
2	Days to Maturity (Early/Medium/Late)	Late
3	Production condition: suitable area in the country	Red and lateritic agroclimatic zone of the West Bengal
4	Time of Sowing	Kharif season (June-July to September-October)
5	Irrigated /Rainfed	Rainfed medium land
6	Low fertility /High fertility of Soil	Low fertility
7	Tolerance to Disease and Pests	Not evaluated
8	Tolerance to adverse Temperature/ Frost/Heat/Salinity	Not evaluated
9	Grain characters physical	
	a) Kernel size	Short bold
	b) Seed lustre (Present/Absent)	Absent
	c) Seed colour	Straw
10	Grain yield per hectare (kg/ha)	859 kg/ha
11	Seed weight (100 seed weight in g)	1.37g
12	Any other relevant information specific to the variety/Hybrid to attain potential yield	Fragrant Variety

27. Application No. 

F716	OS773	15	1804
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 filed on **29.09.2015** by **Amarkan Rural Socio-Environmental Welfare Society (ARSW Society), Village: Ranbahal, PO: Amarkan, Dist: Bankura** for **farmer** variety of crop **Rice** (*Oryza sativa* L.) having denomination **MOTIBAS** 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** : MOTIBAS  
**Applicant** : Amarkanan Rural Socio-Environmental Welfare Society (ARSW Society)  
**Address of the applicant** : Village: Ranbahal, PO: Amarkanan, Dist: Bankura  
 Nationality of applicant : Indian  
 Application details :  
     a. Number : 

F716	OS773	15	1804
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     b. Date of receipt : 29.09.2015  
     c. Date of acceptance : --  
 Crop (Taxonomical lineage) : Rice (*Oryza sativa* L.)  
 Denomination : MOTIBAS  
  
 Type of variety : Farmer  
 Classification of variety : Typical  
 Previously proposed denomination : Not applicable  
 Name of reference varieties : Ambemohar 157, BASMATI 370, PA 6444

**Variety description:**

<b>A. Grouping characteristics</b>	<b>Remarks (measured values)</b>
Basal leaf: Sheath colour(Characteristic 2)	Green
Time of heading (50% of plants with panicles) (Characteristic 20)	Medium
Stem: Length (excluding panicle; excluding floating rice) (Characteristic 29)	Short (91-110 cm)
Decorticated grain: Length (Characteristic 54)	Short
Decorticated grain: Shape (in lateral view) (Characteristic 56)	Short slender
Decorticated grain: Colour (Characteristic 57)	White
Endosperm: Content of amylase (Characteristic 59)	Medium
Decorticated grain: Aroma (Characteristic 62)	Present
<b>B. Distinct characteristics of candidate variety:</b> <b>MOTIBAS</b> has distinguishing character Panicle: Length of main axis: Long (26-30 cm); Decorticated grain: Width: Narrow; Decorticated grain: Shape (in lateral view): Short slender.	
<b>C. Distinct characteristics of reference varieties:</b> <b>Ambemohar 157</b> has distinguishing character Panicle: Length of main axis: Medium; Decorticated grain: Width: Medium; Decorticated grain: Shape (in lateral view): Short bold <b>BASMATI 370</b> has distinguishing character Panicle: Length of main axis: Short; Decorticated grain: Width: Narrow; Decorticated grain: Shape (in lateral view): Long slender. <b>PA 6444</b> has distinguishing character Panicle: Length of main axis: Short; Decorticated grain: Width: Medium; Decorticated grain: Shape (in lateral view): Long bold	
<b>D. Agronomic and Commercial Attributes</b>	

S.No.	Agronomic and Commercial Attributes	Details
1	Days to flowering/Anthesis (Average)	70 days
2	Days to Maturity (Early/Medium/Late)	Late



3	Production condition: suitable area in the country	Red and lateritic agro-climatic zone of the West Bengal
4	Time of Sowing	Kharif season (June-July to September-October)
5	Irrigated /Rainfed	Rainfed medium land
6	Low fertility /High fertility of Soil	Low fertility
7	Tolerance to Disease and Pests	Not evaluated
8	Tolerance to adverse Temperature/ Frost/Heat/Salinity	Not evaluated
9	Grain characters physical	
	a) Kernal size	Short bold
	b) Seed lustre (Present/Absent)	Absent
	c) Seed colour	Straw
10	Grain yield per hectare (kg/ha)	850 kg/ha
11	Seed weight (100 seed weight in g)	1.12g
12	Any other relevant information specific to the variety/Hybrid to attain potential yield	Fragrant Variety

28. Application No. 

E1	GE1	19	4
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 filed on 14.01.2019 by **Anand Agricultural University, Anand - 388110, Gujarat, India** for Extant (Notified) variety of crop **Diploid Cotton (*Gossypium Herbaceum*L.)** having denomination **Gujarat Anand Desi Cotton-2 (GADC-2)** 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** : Gujarat Anand Desi Cotton-2 (GADC-2)

**Applicant** : Anand Agricultural University

**Address of the applicant** : Anand - 388110, Gujarat, India

Nationality of applicant : Indian

**Application details**

a. Number : 

E1	GE1	19	4
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b. Date of receipt : 14.01.2019

c. Date of acceptance : --

Crop (Taxonomical Lineage) : Diploid Cotton (*Gossypium Herbaceum*L.)

Denomination : Gujarat Anand Desi Cotton-2 (GADC-2)

Type of variety : Extant (Notified)

Classification of variety : Typical,  
 Previously proposed denomination : Not applicable  
 Name of parental material : Gvhv 133 x Gvhv 473  
 Source of parental material : Anand Agricultural University.  
 Name of reference varieties : G Cot 21, Anand Desi Cotton-1 (ADC-1)  
 Notifications details : Number S.O. 1379(E). Dated 27-03-2018

### Variety Description:

<b>A. Group Characteristics</b>		<b>Remark (measured values)</b>
Leaf : Shape (Characteristic 6)		Palmate
Flower : Petal colour (Characteristic 10)		Yellow
Flower : Pollen colour (Characteristic 14)		Yellow
Boll : Shape (Characteristic 17)		Ovate
Fibre : Length (Characteristic 27)		Medium (20.5 - 24.5 mm)
<b>B. Distinct characteristics of candidate variety:</b> Gujarat Anand Desi Cotton-2 (GADC-2) has distinguishing characters like Fibre: Fineness (Micronaire value): Medium.		
<b>C. Distinct characteristics of reference varieties:</b> G Cot 21 and Anand Desi Cotton-1 (ADC-1) have distinguishing characters like Fibre: Fineness (Micronaire value): Coarse.		
<b>D. Date of commercialization of the variety</b>		June 2016
<b>E. Agronomic and commercial attributes</b>		
<b>S.No.</b>	<b>Agronomic attributes</b>	<b>Details</b>
1	Growth habit (Determinate/Indeterminate)	Determinate
2	Days to flowering/Anthesis (Average)	Late (>60 days)
3	Days to physiological maturity (Average)	195 Days
4	Seed rate per acre	3kg/Ac
5	Recommended Nutrition/acre schedule to attain potential yield and time of application	
6	Organic (per acre)	4 tons
7	Inorganic (per ha)	20 : 00 : 00 NPK Kg/ha
	Row to row	120
	Plant to plant	30
8	Number of irrigations required to attain potential yield	One irrigated 20 days after withdrawal of monsoon, if required
9	The best growing season to attain the potential yield (Zonewise)	<i>kharif</i>
10	Name the cropping/climatic zone of India in which the varietal/hybrid trials were conducted	North-West Agro Climatic Zone V and Bhal and Coastal Zone VII
11	Intercultural operations (including training, pruning & nipping)	-NA-

	Commercial attributes	Details
1	Yield of Kapas/acre (Average)	6.56 q/acre
2	Yield of Lint/acre (Average)	3.11 q/acre

29. Application No. 

N9	OS39	13	80
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 filed on 05.03.2013 by for Nuziveedu Seeds Ltd. Survey No. 69, Gundlapochampally (Vill. and Panchayat), Medchal-Mandal, Rangareddy-Dist.501401 for **New variety** of crop **Rice** (*Oryza sativa*L.) having denomination **NP-9361** 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-110012.

**Passport data of the variety** : NP-9361  
**Applicant** : Nuziveedu Seeds Ltd  
**Address of the applicant** : Nuziveedu Seeds Ltd. Survey No. 69, Gundlapochampally (Vill. and Panchayat), Medchal-Mandal, Rangareddy-Dist.501401  
**Nationality** : Indian  
**Application details**  
a. Number : 

N9	OS39	13	80
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b. Date of receipt : 05.03.2013  
c. Date of acceptance : --  
Crop (Taxonomical Lineage) : Rice (*Oryza sativa* L.)  
Denomination : NP-9361  
Type of variety : New  
Classification of variety : Typical  
Previously proposed denomination : Not applicable  
Name of parental material : PRN 14-9 x PRN 4291  
Source of parental material : Own germplasm  
Name of reference varieties : Salivahana, Savitri

**Variety Description:**

A. Group Characteristics	Remark (measured values)
Basal leaf: Sheath colour (Characteristic 2)	Green
Time of heading: (50% of plant with panicles) (Characteristic 20)	Medium
Stem: Length (Characteristic 29)	-
Decorticated grain Length: (Characteristic54)	Medium

Decorticated grain: Shape (Characteristic 56)	Medium slender	
Decorticated grain: Colour (Characteristic 57)	White	
Endosperm: Content of Amylose (Characteristic 59)	Medium	
Decorticated grain: Aroma (Characteristic 62)	Absent	
<b>B. Distinct characteristics of candidate variety:</b>		
NP-9361 has distinguishing character as: Leaf: length of blade is medium; Time of heading: (50% of plant with panicles is medium; Decorticated grain: Length is medium; Decorticated grain: Shape is medium slender		
<b>C. Distinct characteristics of reference variety:</b>		
Salivahana has distinguishing character as: Leaf: length of blade is long Time of heading: (50% of plant with panicles is late Decorticated grain: Length is long Decorticated grain: Shape is long bold Savitri has distinguishing character as: Leaf: length of blade is long Time of heading: (50% of plant with panicles is late Decorticated grain: Length is long Decorticated grain: Shape is long bold		
<b>D. Date of commercialization of the variety</b>	NA	
<b>E. Agronomic and commercial attributes</b>		
<b>S.No.</b>	<b>Agronomic attributes</b>	<b>Details</b>
1	Days to flowering/Anthesis (Average)	105 days
2	Days to physiological maturity (Average)	135 days
3	Sowing -Time	First to second week of June
4	Irrigated / rainfed.	Irrigated
5	Average yield of grain	5575 kg/ha
6	Tolerance to disease and pest	Resistant to BPH

30. Application No. 

N21	OS86	13	339
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 filed on 21.06.2013 by for Nuziveedu Seeds Ltd. Survey No. 69, Gundlapochampally (Vill. and Panchayat), Medchal-Mandal, Rangareddy-Dist. 501401 for **New variety** of crop **Rice** (*Oryza sativa*L.) having denomination **NPS-2098R** 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-110012.

**Passport data of the variety** : NPS-2098R

**Applicant** : Nuziveedu Seeds Ltd.  
**Address of the applicant** : Survey No. 69, Gundlapochampally (Vill. and Panchayat), Medchal-Mandal, Rangareddy- Dist.501401  
Nationality : Indian  
**Application details**  
a. Number : 

N21	OS86	13	339
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b. Date of receipt : 21.06.2013  
c. Date of acceptance : --  
Crop (Taxonomical Lineage) : Rice (*Oryza sativa* L.)  
Denomination : NPS-2098R  
Type of variety : New  
Classification of variety : Other (Inbred Parental Line)  
Previously proposed denomination : Not applicable  
Name of parental material : NPS - 2052 x NPS - 2008  
Source of parental material : Own germplasm  
Name of reference varieties : BPT - 5204, MTU 1010

**Variety Description:**

<b>A. Group Characteristics</b>	<b>Remark (measured values)</b>
Basal leaf: Sheath colour (Characteristic 2)	Green
Time of heading: (50% of plant with panicles) (Characteristic 20)	Medium
Stem: Length (Characteristic 29)	Medium
Decorticated grain Length: (Characteristic 54)	Long
Decorticated grain: Shape (Characteristic 56)	Long slender
Decorticated grain: Colour (Characteristic 57)	White
Endosperm:Content of Amylose (Characteristic 59)	Medium
Decorticated grain: Aroma (Characteristic 62)	Absent
<b>B. Distinct characteristics of candidate variety:</b> <b>NPS-2098R</b> has distinguishing character as Stem : length is medium; Panicle : length of main axis is long; Panicle : length of main axis is drooping; Panicle : number per plant is medium	

<b>C. Distinct characteristics of reference variety:</b>		
<b>BPT- 5204</b> has distinguishing character as Stem : length is very short; Panicle : length of main axis is short Panicle : length of main axis is deflexed; Panicle : number per plant is few		
<b>MTU 1010</b> has distinguishing character as Stem : length is short; Panicle: length of main axis is medium; Panicle : length of main axis is semi- straight; Panicle : number per plant is medium		
<b>D. Date of commercialization of the variety</b>		-
<b>E. Agronomic and commercial attributes</b>		
<b>S.No.</b>	<b>Agronomic attributes</b>	<b>Details</b>
1	Days to flowering/Anthesis (Average)	102-105 days
2	Production condition : suitable area in the country	Irrigated rice growing areas (seed production areas of Karimnagar, Karnatka, Chhattisgarh, Odisha.)
3	Irrigated / rainfed. Sowing -Time	Irrigated
4	Sowing -Time	Kharif: 15 <sup>th</sup> Jun - 15 <sup>th</sup> July Rabi: first fortnight of November.
5	Average yield of grain	5.0-5.5 t/ha
6	Tolerance to disease and pest	Moderate resistance to bacterial leaf blight

31. Application No. 

N46	OS799	14	1263
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 filed on 10.06.2014 by for Bayer Crop Science LP2 T.W. Alexander Drive, Research Triangle Park, NC 277009, USA **New** variety of crop **Rice** (*Oryza sativa*L.) having denomination **M048** 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-110012.

**Passport data of the variety** : M048  
**Applicant** : Bayer Crop Science.  
**Address of the applicant** : LP 2 T.W. Alexander Drive, Research Triangle Park, NC 277009, USA  
Nationality : USA  
**Application details**  
a. Number : 

N46	OS799	14	1263
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b. Date of receipt : 10.06.2014

c. Date of acceptance : --  
 Crop (Taxonomical Lineage) : Rice (*Oryza sativa* L.)  
 Denomination : M048  
 Type of variety : New  
 Classification of variety : Typical  
 Previously proposed denomination : Not applicable  
 Name of parental material : G1198 x G5898  
 Source of parental material : Own germplasm  
 Name of reference varieties : IR 64, Jaya

**Variety Description:**

<b>A. Grouping Characteristics</b>		<b>Remark (measured values)</b>
Basal leaf: Sheath colour (Characteristic 2)		Green
Time of heading (50% of plants with panicles) (Characteristic 20)		Late
Stem: Length (excluding panicle; excluding floating rice) (Characteristic 29)		Medium
Decorticated grain: Length (Characteristic 54)		Medium
Decorticated grain: Shape (in lateral view) (Characteristic 56)		Short bold
Decorticated grain: Colour (Characteristic 57)		Light brown
Endosperm: Content of amylose (Characteristic 59)		Medium
Decorticated grain: Aroma (Characteristic 62)		Present
<b>B. Distinct characteristics of candidate variety:</b>		
M 048 has distinguishing character as Leaf: length of blade is Medium; Leaf: width of blade is Broad; Decorticated grain: Length is Medium; Decorticated grain: Shape is Short bold		
<b>C. Distinct characteristics of reference variety:</b>		
IR 64 has distinguishing character as Leaf: length of blade is Short; Leaf: width of blade is Medium; Decorticated grain: Length is Long; Decorticated grain: Shape is Long slender		
Jaya has distinguishing character as Leaf: length of blade is Short; Decorticated grain: Length is Long; Decorticated grain: Shape is Long bold		
<b>D. Date of commercialization of the variety</b>		NA
<b>E. Agronomic and commercial attributes</b>		
<b>S.No.</b>	<b>Agronomic attributes</b>	<b>Details</b>
1	Days to flowering/Anthesis (Average)	111-130 days
2	Days to physiological maturity (Average)	141-160 days

3	Production condition: suitable area in the country	Karimnagar, Warangal, Khamam (AP and Telangana)
4	Irrigated / rainfed. Sowing -Time	Irrigated: 1st week of June
5	Grain weight (1000 grain weight in gram)	21-25g
6	Average yield of grain	4-5 t/ha
7	Tolerance to disease and pest	Resistant to BPH

32. Application No. 

N48	OS801	14	1265
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 filed on 10.06.2014 by for Bayer Crop Science LP2 T.W. Alexander Drive, Research Triangle Park, NC 277009, USA **New** variety of crop **Rice** (*Oryza sativa*L.) having denomination **B 126** 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-110012.

**Passport data of the variety** : B 126  
**Applicant** : Bayer Crop Science.  
**Address of the applicant** : LP 2 T.W. Alexander Drive, Research Triangle Park, NC 277009, USA  
Nationality : USA  
**Application details**  
a. Number : 

N48	OS801	14	1265
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b. Date of receipt : 10.06.2014  
c. Date of acceptance : --  
Crop (Taxonomical Lineage) : Rice (*Oryza sativa* L.)  
Denomination : B 126  
Type of variety : New  
Classification of variety : Typical  
Previously proposed denomination : Not applicable  
Name of parental material : (G0086/G1181) x (G0086/G1183)  
Source of parental material : Own germplasm  
Name of reference varieties : IR 64 and Govind

**Variety Description:**

A. Grouping Characteristics	Remark (measured values)
Basal leaf: Sheath colour (Characteristic 2)	Green



Time of heading (50% of plants with panicles) (Characteristic 20)	Medium	
Stem: Length (excluding panicle; excluding floating rice) (Characteristic 29)	Very short	
Decorticated grain: Length (Characteristic 54)	Long	
Decorticated grain: Shape (in lateral view) (Characteristic 56)	Long slender	
Decorticated grain: Colour (Characteristic 57)	Light brown	
Endosperm: Content of amylose (Characteristic 59)	Low	
Decorticated grain: Aroma (Characteristic 62)	Absent	
<b>B. Distinct characteristics of candidate variety:</b> <b>B 126</b> has distinguishing character as Flag leaf attitude of blade (early observation): Semi-erect; Panicle attitude of branches: erect to semi erect.		
<b>C. Distinct characteristics of reference variety:</b> <b>IR 64</b> and <b>Govind</b> have distinguishing character as Flag leaf attitude of blade (early observation): erect; Panicle attitude of branches: semi erect -spreading		
<b>D. Date of commercialization of the variety</b>	NA	
<b>E. Agronomic and commercial attributes</b>		
<b>S.No.</b>	<b>Agronomic attributes</b>	<b>Details</b>
1	Days to flowering/Anthesis (Average)	121-140 days
2	Days to physiological maturity (Average)	91-110 days
3	Production condition: suitable area in the country	Karimnagar, Warangal, Khamam (AP and Telangana)
4	Irrigated / rainfed. Sowing -Time	Irrigated: 1 <sup>st</sup> week of June
5	Grain weight (1000 grain weight in g)	15-20 g
6	Average yield of grain	4-5 t/ha
7	Tolerance to disease and pest	Resistant to BPH

33. Application No. 

E87	OS472	16	1738
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 filed on 13.10.2016 by **G.B. Pant University of Agriculture and Technology Department of Genetics & Plant Breeding, G.B.P.U.A.T, Pantnagar-263145, Dist. U.S. Nagar** for Extant (Notified) variety of crop **Rice (*Oryza sativa* L.)** having denomination **Pant Basmati- 1 (IET 21665) (RP 36444-1-9-5-5)** 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-110012.

**Passport data of the variety** : Pant Basmati- 1 (IET 21665) (RP 36444-1-9-5-5)  
**Applicant** : G.B. Pant University of Agriculture and Technology  
**Address of the applicant** : Department of Genetics & Plant Breeding, G.B.P.U.A.T, Pantnagar-263145, Distt. U.S. Nagar  
Nationality : Indian  
**Application details**  
a. Number: 

E87	OS472	16	1738
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b. Date of receipt :13.10.2016  
c. Date of acceptance : -  
Crop (Taxonomical Lineage) : Rice (*Oryza sativa* L.)  
Denomination : Pant Basmati- 1 (IET 21665) (RP 36444-1-9-5-5)  
Type of variety : Extant (Notified)  
Classification of variety : Typical  
Previously proposed denomination : Not applicable  
Name of parental material : Pusa Basmati 1 x IET12603  
Source of parental material : Own germplasm,  
Name of reference varieties : Taroari Basmati, Pusa Basmati 1  
Notification Details : Number: S.O.112.(E). Dated: 12.01.2015

**Variety Description:**

<b>A. Group characteristics</b>	<b>Remark (measured values)</b>
Basal leaf: Sheath colour (Characteristic 2)	Green
Time of heading (50% of plants with panicles) (Characteristic 20)	Medium
Stem: Length (excluding panicle; excluding floating rice) (Characteristic 29)	Short
Decorticated grain: Length (Characteristic 54)	Very short
Decorticated grain: Shape (in lateral view) (Characteristic 56)	Extra long slender
Decorticated grain: Colour (Characteristic 57)	-
Endosperm: Content of amylose (Characteristic 59)	Medium
Decorticated grain: Aroma (Characteristic 62)	Present
<b>B. Distinct characteristics of candidate variety:</b>	

<b>Pant Bansmati 1 (IET 21665)(RP 36444-1-9-5-5)</b> has distinguishing character as Flag Leaf: attitude of blade is semi erect; Panicle: attitude of branches is spreading, Decorticated grain: shape is extra long slender		
<b>C. Distinct characteristics of reference varieties:</b>		
<b>Taroari Basmati</b> has distinguishing character as Flag Leaf: attitude of blade is erect; Panicle: attitude of branches is semi erect to spreading; Decorticated grain: shape is long slender		
<b>Pusa Basmati 1</b> has distinguishing character as Flag Leaf: attitude of blade is semi erect; Panicle: attitude of branches is semi erect; Decorticated grain: shape is short bold		
<b>D. Date of commercialization of the variety</b>		15.05.2016
<b>E. Agronomic and commercial attributes</b>		
<b>S.No.</b>	<b>Agronomic attributes</b>	<b>Details</b>
1	Days to flowering/Anthesis (Average) seeding to flowering and seed to seed	110 days
2	Seed rate	50 kg/ha
3	Days to physiological maturity (Average)	140-145 days
4	Time of sowing	Second fortnight of May- First week of June
5	Grain kernel size	length 7.7 mm
6	Grain weight (1000 grain weight in g)	22.96g
7	Average yield of seed	48.7 q/ha
8	Plant height	113 cm
9	L/B ratio	4.39
10	Kernel length (mm)	7.73
11	Kernel breadth (mm)	1.76

34. Application No. 

E1	OS1	17	12
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 filed on 17.01.2017 by **Indira Gandhi Krishi Vishwavidyalaya** for **Extant variety** (Notified) of crop **Rice** (*Oryza sativa* L.) having denomination **Vishnubhog Selection-1** 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-110012.

**Passport data of the variety** : Vishnubhog Selection-1  
**Applicant** : Indira Gandhi Krishi Vishwavidyalaya

**Address of the applicant** : Department of Genetics & Plant Breeding, Indira Gandhi Krishi Vishwavidyalaya Raipur-492006(Chhattisgarh)

Nationality of applicant : Indian

**Application details**

a. Number	: E1	OS1	17	12
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b. Date of receipt : 17.01.2017

c. Date of acceptance : --

Crop(Taxonomical Lineage) : Rice (*Oryza sativa* L.)

Denomination : Vishnubhog Selection-1

Type of variety : Extant

Classification of variety : Typical

Previously proposed denomination : Not applicable

Name of parental material : Local landrace of Vishnubhog

Source of parental material : Own germplasm

Notification Details : Number: S.O. 2238(E). Dated: 29.06.2016

Name of reference varieties : Badshahbhog, Poornima

**Variety Description:**

<b>A. Grouping characteristics</b>	<b>Remarks (measured values)</b>
Basal leaf: Sheath colour(Characteristic 2)	Green
Time of heading (50% of plants with panicles)(Characteristic 20)	Late
Stem: Length (excluding panicle; excluding floating rice)(Characteristic 29)	Short
Decorticated grain: Length(Characteristic 54)	Very short
Decorticated grain: Shape (in lateral view)(Characteristic 56)	Short bold
Decorticated grain: Colour(Characteristic 57)	White
Endosperm: Content of amylase(Characteristic 59)	Medium
Decorticated grain: Aroma(Characteristic 62)	Present
<b>B. Distinct characteristics of candidate varieties:</b>	
<b>Vishnubhog Selection-1</b> has distinguishing character as Time of Heading (50% of plants with Panicles): Late; Panicle Curvature of main axis: Semi-straight; Panicle exertion: Well exerted Decorticated grain shape in lateral view: Medium Slender	
<b>C. Distinct characteristics of reference varieties:</b>	
<b>Badshahbhog</b> has distinguishing character as Time of Heading (50% of plants with Panicles): Very late; Panicle: Curvature of main axis: Straight; Panicle exertion: Exerted, Decorticated grain shape in lateral view: Short bold	

<b>Poornima</b> has distinguishing character as Time of Heading (50% of plants with Panicles): Early; Panicle: Curvature of main axis: Semi-straight; Panicle exertion: Exerted; Decorticated grain shape in lateral view: Long slender		
<b>D. Date of commercialization of the variety</b>		29.06.2016
<b>E. Agronomic and commercial attributes</b>		
<b>S.No.</b>	<b>Agronomic attributes</b>	<b>Details</b>
1	Days to flowering: Anthesis (Average 50%	114-116 days
2	Days to physiological maturity (Average)	138-142 days
3	Production condition: suitable area in the country	All three agro-climatic zones of Chhattisgarh
4	Irrigated / rainfed	Irrigated & Rainfed low to mid low land condition
5	Grain weight (1000 grain weight in g)	14.28 g
6	Average yield of seed	4224 kg/ha
7	Plant height	142 cm
8	Fertilizer responsiveness	At the recommended dose of fertilizer N:P:K 50:40:30

35. Application No. 

N27	OS46	09	365
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 filed on 07.09.2009 by **Pan Seeds Pvt Ltd., 69A Satish Mukherjee Road, Kolkata-700026** for New variety of crop **Rice (*Oryza sativa* L.)** having denomination ANS 025 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-110012.

**Passport data of the variety** : ANS 025  
**Applicant** : Pan Seeds Pvt. Ltd.  
**Address of the applicant** : 69A Satish Mukherjee Road, Kolkata-700026  
**Nationality** : Indian  
**Application details**  
a. Number : 

N27	OS46	09	365
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b. Date of receipt : 07.09.2009  
c. Date of acceptance : -  
**Crop (Taxonomical Lineage)** : Rice (*Oryza sativa* L.)  
**Denomination** : ANS 025  
**Type of variety** : New

Classification of variety : Typical  
 Previously proposed denomination : Not applicable  
 Name of parental material : ANNADA x JALDI MINIKIT  
 Source of parental material : Own germplasm  
 Name of reference varieties : Jaya &Dhanrasi

**Variety Description:**

<b>A. Grouping Characteristics</b>		<b>Remark (measured values)</b>
Basal leaf: Sheath colour (Characteristic 2)		Purple lines
Time of heading: (50% of plant with panicles) (Characteristic 20)		Medium
Stem: Length (Characteristic 29)		Very Short
Decorticated grain Length: (Characteristic 54)		Short
Decorticated grain: Shape (Characteristic 56)		Short bold
Decorticated grain: Colour (Characteristic 57)		White
Endosperm: Content of Amylose (Characteristic 59)		Intermediate
Decorticated grain: Aroma (Characteristic 62)		Absent
<b>B. Distinct characteristics of candidate variety:</b>		
ANS 025 has distinguishing character as Time of heading: (50% of palnt with panicles) is Early, Spikelet: colour of stigma is purple; Stem anthocyanin coloration of nodes: present		
<b>C. Distinct characteristics of reference variety:</b>		
Jaya &Dhanrasi have distinguishing character as Time of heading: (50% of palnt with panicles) is medium –very late, Spikelet: colour of stigma is white; Stem anthocyanin coloration of nodes: absent		
<b>D. Date of commercialization of the variety</b>		NA
<b>E. Agronomic and commercial attributes</b>		
<b>S.No.</b>	<b>Agronomic attributes</b>	<b>Details</b>
1	Days to flowering/Anthesis (Average)	85 days
2	Production condition: suitable area in the country	West Bengal, Bihar, Jharkhand,
3	Sowing -Time	Kharif –June - July Boro- Nov - January
4	Irrigated / rainfed.	Irrigated
5	Seed colour	White
6	Average yield of grain	6000-6500 kg/ha
7	Tolerance to disease and pest	WBPH, YSB

36. Application No. 

E1	JO1	12	73
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 filed on 26-03-2012 by Indian Council of Agricultural Research for **New** variety of crop **Jute** (*Corchorus olitorius*L.) having denomination **JRO 2407 (Samapti)** 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-110012.

**Passport data of the variety** : JRO 2407 (Samapti)  
**Applicant** : Indian Council of Agricultural Research  
**Address of the applicant** : Krishi Bhawan, New Delhi-110114  
**Nationality of applicant** : Indian  
**Application details**  
a. Number 

E1	JO1	12	73
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b. Date of receipt : 26-03-2012  
c. Date of acceptance :  
**Crop (Taxonomical Lipdianeage)** : Jute (*Corchorus olitorius*L.)  
**Denomination** : JRO 2407 (Samapti)  
**Type of variety** : New  
**Classification of variety** : Typical Variety  
**Previously proposed denomination** : Not applicable  
**Name of parental material** : KEN/SM/024 x JRO 524  
**Source of parental material** : Own germplasm.  
**Name of reference varieties** : JRO 878, S 19 (Subala)

**Variety Description:**

<b>A. Group Characteristics</b>	<b>Remark (measured values)</b>
Seedling: Premature flowering resistance ( <i>C.olitorius</i> varieties only) (Characteristics 1)	Present
Stem: Colour (Characteristics 6)	Red
Time of Flowering 50% of the plants with at least one open flower (Characteristics 12)	Late
<b>B. Distinct characteristics of candidate variety:</b> <b>JRO 2407 (Samapti)</b> has distinguishing character as: Stem: colour: Red; Seed: colour: Green	
<b>C. Distinct characteristics of reference varieties:</b> <b>JRO 878</b> has distinguishing character as: Stem: colour: Purple Seed: colour: Black	

<b>S 19 (Subala)</b> has distinguishing character as: Stem: colour: Purple; Seed: colour: Steel Grey		
<b>D. Date of commercialization of the variety</b>	NA	
<b>E. Agronomic and commercial attributes</b>		
<b>S.No.</b>	<b>Agronomic attributes</b>	<b>Details</b>
1	Day to harvestable maturity	115-120 days
2	Time of 50% flowering	Late: 150 days
3	Pod pigmentation	Red
4	Average yield	35-40 q/ha
5	Fiber fineness	Very Fine (2.3 tex)
6	Fiber strength	Fairly good 26.27 g/tex

37. Application No. 

E16	OS130	18	663
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 on 24-07-2018 by **Nuziveedu Seeds Ltd., Survey No. 69, Kandlakoya Gundlapochampally Vill. Medchal Mandal, R.R Dist. 501401** for **Extant** variety (Notified) of crop **Rice (*Oryza sativa*L.)** having denomination **Surabhi (IET24760)** 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 – 110012.

**Passport data of the variety** : Surabhi (IET 24760)  
**Applicant Name** : Nuziveedu Seeds Ltd.  
**Address of the applicant** : SurveyNo.69, Kandlakoya Gundlapochampally Vill. Medchal Mandal, R.R Dist. 501401  
Nationality of applicant : Indian  
**Application details**  
a. Number : 

E16	OS130	18	663
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b. Date of receipt : 24-07-2018  
c. Date of acceptance :  
Crop (Taxonomical lineage) : Rice (*Oryza sativa* L.)  
Denomination : Surabhi (IET24760)  
Type of variety : Extant  
Classification of variety : Typical  
Previously proposed



denomination : Not applicable  
 Name of parental material : PRN 19045 x PRN 14  
 Source of parental material : Own germplasm  
 Name of reference varieties : BPT 5204, PUSA 834  
 Notification details : No.S.O.399 (E), dtd.24.01.2018

**Variety Description:**

<b>A. Grouping Characteristics</b>	<b>Remark (measured values)</b>
Basal leaf: Sheath colour (Characteristic 2)	Green
Time of heading (50% of plants with panicles) (Characteristic 20)	Medium
Stem: Length (excluding panicle; excluding floating rice) (Characteristic 29)	Very short
Decorticated grain: Length (Characteristic 54)	Medium
Decorticated grain: Shape (in lateral view) (Characteristic 56)	Medium slender
Decorticated grain: Colour (Characteristic 57)	White
Endosperm: Content of amylose (Characteristic 59)	Medium
Decorticated grain: Aroma (Characteristic 62)	Absent
<b>B. Distinct characteristics of candidate variety:</b> <b>Surabhi(IET24760)</b> has distinguishing characters as Leaf intensity of green colour: Medium; Stem: thickness: Thin; Panicle: secondary branching: Strong; Grain weight of 1000 fully developed grain: Very low	
<b>C. Distinct characteristics of reference varieties:</b> <b>BPT 5204</b> has distinguishing character as Leaf intensity of green colour: Light; Stem: thickness: Thick; Panicle: secondary branching: Weak; Grain: Weight of 1000 fully developed grain: Low <b>PUSA 834</b> has distinguishing character as Leaf intensity of green colour: Medium; Stem: thickness: Thick; Panicle: secondary branching: Clustered; Grain: Weight of 1000 fully developed grain: Medium	
<b>D. Date of commercialization of the variety</b>	Not commercialized
<b>E. Agronomic and commercial attributes</b>	
<b>Agronomic attributes</b>	<b>Details</b>
Day to flowering/Anthesis(Average)	107 day
Day to Maturity(Early/Medium/Late)	135-140 day
Plant Height	90 cm
Production condition: suitable area in the country	Western zone: Maharashtra, Gujarat during kharif season

Time of sowing	15 <sup>th</sup> June to 15 <sup>th</sup> July during kharif season
Fertilizer requirement	40:40:60 (N.P.K. kg/ha) Zinc 50kg/ha
Seed Rate	25 kg/ha
<b>Commercial attributes</b>	
Irrigation	Maintain water depth of 2 cm from transplanting till harvesting
Seed colour	white
Grain yield per hectare(kg/ha)	5.5 to 6.0 tons/ ha
Seed: Weight(1000 seed weight in gm)	14.8 gm
Any other relevant information specific to the variety/ Hybrid to attain potential yield	-

**Guidelines for the conduct of Test for  
Distinctiveness, Uniformity and Stability**

**On**

**CROSSANDRA (*Crossandrafundibuliformis* (L.) Nees.)**



**Protection of Plant Varieties and Farmers Rights Authority (PPV&FRA),  
Govt. Of India, New Delhi**

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## **CROSSANDRA** (*Crossandrainfundibuliformis* (L.) Nees.)

### **Introduction**

Crossandra (*Crossandrainfundibuliformis* (L.) Nees) is commonly known as *firecracker flower* in English, *Kanaka-ambaram* in Tamil, Malayalam and Telugu, *Aboli* in Marathi, *Kanakambara* in Kannada. Its flowers are very popular due to their attractive brightcolour, light weight, and free flowing nature. Flowers are used for making garlands, offered to temple deities and also used for adorning women's hair. It belongs to the family *Acanthaceae*. It is mainly grown in open field conditions and mostly grown under tropical climate. In India, crossandra is commercially cultivated in Southern States.

### **I. Subject**

These Test Guidelines shall apply to all the varieties of *Crossandra* (*Crossandrainfundibuliformis* (L.) Nees.)

### **II. Plant Material Required**

1. The Protection of Plant Varieties & Farmers' Rights Authority (PPV&FRA) shall decide when, where and in what quantity and quality the plant material are required for testing of a variety denomination for registration under the Protection of Plant Varieties and Farmers" Rights (PPV&FR) Act, 2001. Applicants submitting such material from a country other than India shall make sure that all customs and quarantine requirements stipulated under relevant national legislations and regulations are complied with.
2. For both the varieties, hybrid selections or mutants, 100 terminal rooted cuttings in plugs or pro-trays (50 for each center) of 6 cm to 8 cm taken from mother plants shall be required for DUS testing. If, however, any material for DUS test has a specific requirement for the expression of characters, the same shall be specified by the applicant.

3. The plant material supplied shall be healthy, not lacking in vigour or affected by any pest or disease and it should certify that it shall also possess the highest genetic stability in the propagated material and uniformity.
4. The plant material shall not have undergone any chemical or bio-physical treatment, unless the Registrar of the Authority has requested for such treatment. If, it has been treated, full details of the treatment must be provided.

### **III. Conduct of Tests**

1. The minimum duration of DUS tests shall normally be at least at two independent similar growing seasons. The test will normally be conducted at two test locations. If distinctiveness cannot be sufficiently established in these growing periods, the test should be extended for an additional growing period.
2. The field tests shall be carried out under conditions ensuring normal growth and expression of all test characteristics. The plants are planted on raised beds with a row to row spacing of 90 cm and plant to plant spacing of 60 cm and irrigation is to be given with inline drippers.
3. In particular, growth regulators should not be used.
4. One month old well rooted cuttings/seedlings which are hardened shall be used for transplanting in DUS test plot.

#### **Test Plot Design**

- Number of rows: 2
  - Row to row distance: 90 cm
  - Plant to plant distance: 60 cm
  - Number of replications: 5
  - Number of plants per replication: 10
5. Standard cultural practices specific to the location of the DUS test centres to be adopted with the approval of the Authority.

#### IV. Methods and Observations

1. The characteristics described in the Table of characteristics shall be used for the testing of varieties for their DUS (section VII).
2. The assessment of the characteristics should be at the optimum stage of development *i.e.* at full flowering.
3. All observations on vegetative parts shall be recorded from middle portion of the plant. The colour of vegetative parts shall be observed on plants exposed to natural light.
4. All observations on floral parts shall be made on terminal spikes. The colour of the flower shall be recorded at full open stage.
5. All observations should be made on 5 single plants in each replication or parts taken from 5 plants.
6. Each test shall include a total of at least 5 plants each in five replications. For assessment of Distinctiveness, Uniformity and Stability, all observations shall be made on all replicated plants.
7. For the assessment of colour characteristics, the Royal Horticultural Society (RHS) colour chart shall be used.
8. Additional tests protocols for special purpose shall be established by the PPV & FR Authority.
9. All characteristics that shall be observed during every growing season on all varieties shall always be included in the description of the varieties.
10. The relevant growth stages corresponding to the code numbers are described below.

<b>Growth Stages</b>	<b>Codes</b>
Vegetative phase (120 days after planting)	10
Flowering stage (180 days after planting)	20

#### V. Grouping characteristics

1. The candidate varieties for DUS testing shall be divided into groups to facilitate the assessment of Distinctiveness. The characteristics and their states which are known from experience not to vary or to vary only slightly within a variety are suitable for grouping purpose.
2. The following characteristics shall be used for grouping Crossandra varieties:
  1. Plant growth habit (characteristic 1)
  2. Inflorescence Rachis length (characteristic 9)
  3. Inflorescence Peduncle length (characteristic 10)
  4. Flower diameter (characteristic 12)
  5. Flower colour (characteristic 17)

## VI. Characteristics and Symbols

1. To assess Distinctiveness, Uniformity and Stability, the characteristics and their states as given in the Table of Characteristics (section VII) shall be used.
2. Notes (1-9) shall be used to describe the state of each character for the purpose of digital data processing.
3. Legend
  - (+): See explanations on the Table of characteristics.
4. Characteristics denoted with symbols QL and QN in first column of the Table of characteristics shall be indicated as:
  - QL: Qualitative characteristics
  - QN: Quantitative characteristics
5. Type of assessment of characteristics indicated in column number seventh of the Table of characteristics is as follows:
  - MG:** Measurement by a single observation of a group of plants or parts of plants
  - MS:** Measurement of a number of individual plants or parts of plants



**VG:** Visual assessment by a single observation of a group of plants or parts of plants

**VS :** Visual assessment by observations of individual plants or parts of plants

## VII. Table of Characteristics

Sl. No.	Characteristics	States	Notes	Example varieties	Stage of observation	Type of assessment
1 QL (+) (*)	Plant Growth Habit	Erect	1	-	10	VG
		Semi-erect	2	ArkaAmbara, Arka Kanaka, ArkaShreeya		
		Spreading	3	ArkaShravya, Mangalore Local		
2. QN (*)	Plant Height	Short (<60cm)	3	-	10	MS
		Medium (60 to 80cm)	5	ArkaAmbara, Arka Kanaka, ArkaShravya, ArkaShreeya		
		Tall (>80cm)	7	Mangalore Local		
3. QN (*)	Plant Number of branches (Density)	Sparse (<10 Nos.)	3	-	10	MS
		Medium (10-20 Nos.)	5	ArkaAmbara, Arka Kanaka, ArkaShreeya		
		Dense (>20 Nos.)	7	ArkaShravya, Mangalore Local		
4. QN (*)	Stem Thickness	Thin (<8 mm)	3	-	10	MS
		Medium (8 to 12 mm)	5	ArkaAmbara, Arka Kanaka, ArkaShreeya, Mangalore Local		
		Thick (>12 mm)	7	ArkaShravya		

5. QL (* (*)	Stem Hairiness	Absent	1	ArkaAmbara, Arka Kanaka, ArkaShravya, ArkaShreeya, Mangalore Local	10	VG
		Present	9	-		
6. QL (* (*)	Stem Color	Green	3	ArkaAmbara, Arka Kanaka, ArkaShreeya, Mangalore Local	10	VG
		Pinkish brown	5	ArkaShravya		
7 QL (+ (*)	Leaf Lamina margin	Entire	3	-	10	VS
		Wavy	5	ArkaAmbara, ArkaShravya, ArkaShreeya,		
8 QL (* (*)	Leaf Venation	Not prominent	1	ArkaAmbara	10	VS
		Prominent	9	ArkaShravya, Mangalore Local, ArkaShreeya, Arka Kanaka		
9. QN (+ (*)	Inflorescence Rachis length	Short (4- 6cm)	5	ArkaAmbara, ArkaShreeya, Arka Kanaka, Mangalore Local	20	MS
		Long (>6 cm)	7	ArkaShravya		
10 QN (+ (*)	Inflorescence Peduncle length	Short (2-4 cm)	5	Local	20	MS
		Long (> 4 cm)	7	ArkaAmbara, ArkaShreeya, Arka Kanaka, Mangalore Local, ArkaShravya		
11 QL (* (*)	Inflorescence Peduncle colour	Green	1	ArkaAmbara, Arka Kanaka, ArkaShreeya, Mangalore Local	20	VS

		Pinkish brown	3	ArkaShravya		
12 QN (+) (*)	Flower Diameter	Small (2 to 3 cm)	5	Local, Mangalore Local	20	MS
		Large (>3 cm)	7	ArkaAmbara, ArkaShreeya, Arka Kanaka, ArkaShravya		
13 QL (*)	Flower Petal margin	Plain	3	Mangalore Local	20	VS
		Wavy	5	ArkaAmbara, Arka Kanaka, ArkaShravya, ArkaShreeya,		
		Ruffled	7	-		
14 QL (*)	Flower Arrangement	Loose	5	ArkaShravya, Mangalore Local	20	VS
		Compact	7	ArkaAmbara, Arka Kanaka, ArkaShreeya, Local		
15 QN (*)	Number of flowers per inflorescence	Few (<4)	3	Local	20	VS
		Many (≥4)	5	ArkaAmbara, Arka Kanaka, ArkaShreeya		
16 QN (*)	Flower Remain open at a time in inflorescence	Few (<4)	3	Local	20	MS
		Many (≥4)	5	ArkaAmbara, Arka Kanaka, Mangalore Local, ArkaShreeya, ArkaShravya		
17 QL (*)	Flower colour (RHS colour chart)	Orange	3	Arka Kanaka (Orange group 24. A)	20	VS

		Orange-Red	5	ArkaAmbara (Orange-Red 31.B) ArkaShravya (Orange-Red 35.B) ArkaShreeya (Orange-Red 32.C)		
		Red	7	Local (Red 37.A) Mangalore Local (Red 41.C)		

### VIII. Explanation on the Table of Characteristics

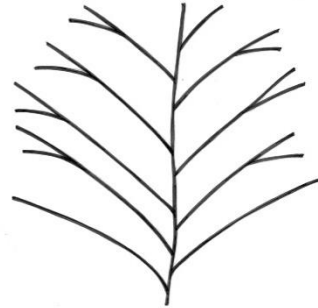
#### Characteristic 1. Plant: type



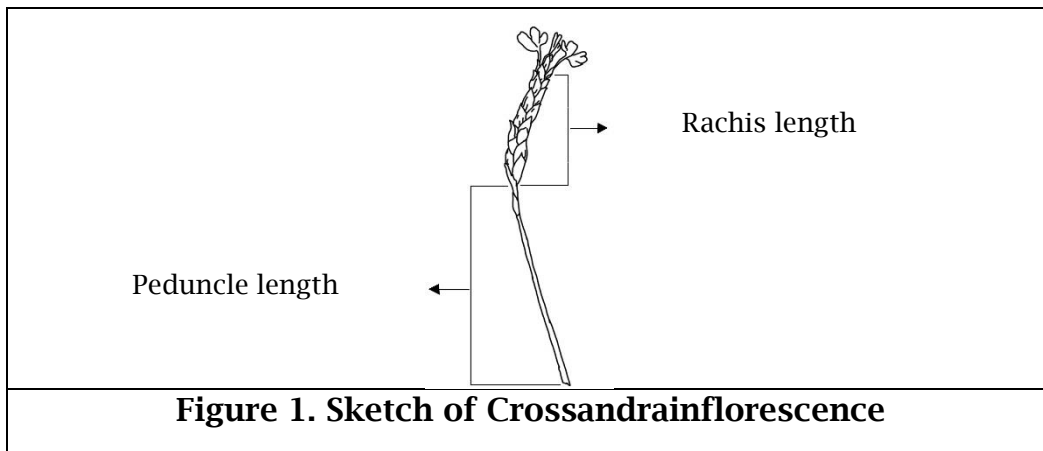
**Erect**  
**(1)**



**Semi-erect**  
**(2) (3)**

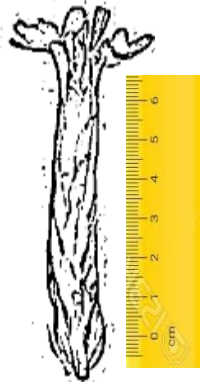


**Spreading**



**Figure 1. Sketch of Crossandra inflorescence**

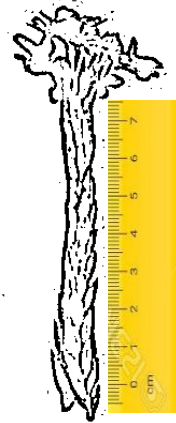
#### Characteristic 9. Inflorescence: Rachis length



Short  
(5)



Short  
(5)



Long  
(7)

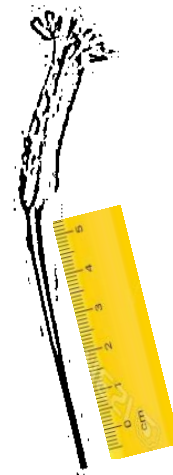


Long  
(7)

**Characteristic 10. Inflorescence: Peduncle length**



Short



Long  
(7)

(5)



Short  
(5)



Long  
(7)

**Characteristic 12. Flower: Diameter**



Small  
(5)



Large  
(7)



Small  
(5)



Large  
(7)

## IX. Working Group Details

The DUS test guidelines developed by the Task force (3/2019) constituted by the PPV & FR Authority for **Crossandra** (*Crossandra fundibuliformis* (L.) Nees.) with consultation by Nodal officer, ICAR-IIHR, Hesaraghatta, Bangalore. Technical inputs also provided by the PPV & FR Authority.

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- Dr. Ravi Prakash**  
Registrar, PPV & FRA, New Delhi **Member Secretary**

## X. Name of DUS Test Centre:

Nodal DUS Test Centre	Other DUS Test Centre
ICAR-Indian Institute of Horticultural Research, Hesaraghatta Lake post, Bengaluru-560089	-