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

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

भारतीय पौधा किस्म जर्नल, खण्ड 09, अंक 11
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‘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, एस.2, ए ब्लॉक, एनएएससी काम्प्लैक्स, 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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S.No.	Denomination	Ackn. No.	Crop
1	Dhania	Reg/2011/101	Rice
2	Kudai Vazhai	Reg/2011/1338	Rice
3	Kavuni	Reg/2011/1341	Rice
4	Karung Kuruvai	Reg/2011/1336	Rice
5	Jeeraga Samba	Reg/2011/1337	Rice
6	Bindli	Reg/2012/70	Rice
7	Sada Jhuli	Reg/2012/430	Rice
8	SR-1	Reg/2009/327	Chickpea
9	Mohini	Reg/2012/71	Maize

5. Passport data of 01 Farmers Varieties

S.No.	Denomination	Ackn. No.	Crop
1	Nirmal-1651 (NPH-1651)	Reg/2009/382	Pearl millet

6. DUS Test guideline of Nutmeg (*Myristica fragrans* Houtt.)
7. Details of 45 registration certificate for inviting claims of benefit sharing under sub section 1 of section 26 of PPV&FR Act, 2001 read with rule 40 of PPV&FR Rules, 2003.

Sr. No.	Registration No.	Denomination Of Variety	Crop
1	1 of 2015	G-Padma	Rice
2	2 of 2015	Balangir-Ghasian-Kalakrushna	Rice
3	3 of 2015	Haladi Sapuru	Rice
4	4 of 2015	Padmabati	Rice
5	5 of 2015	Mirchamati	Rice
6	6 of 2015	Paradhan	Rice
7	7 of 2015	Balangir-Barghati-Mahipal	Rice
8	8 of 2015	Sahana (JK-276-8-2)	Tetraploid Cotton
9	9 of 2015	MAUS 158	SOYBEAN
10	10 of 2015	Prat(MAUS-61)	SOYBEAN

11	11 of 2015	MP-7792 (MH-1609)	Pearl Millet
12	12 of 2015	Pusa 9712 (DS 9712)	SOYBEAN
13	13 of 2015	MP-7872 (MH-1610)	Pearl Millet
14	14 of 2015	CO (R) 50 (IET 19321) (CB01001)	Rice
15	15 of 2015	MAUS-81	SOYBEAN
16	16 of 2015	CO (R) 49	Rice
17	17 of 2015	Godavari (NIDW-295)	Durum wheat
18	18 of 2015	BUDANGA	Rice
19	19 of 2015	KUNDA DHAN	Rice
20	20 of 2015	DHOSARA	Rice
21	21 of 2015	SAL JHANTI	Rice
22	22 of 2015	MUTHISAMULI	Rice
23	23 of 2015	Sunamani	Rice
24	24 of 2015	Kataki Tampa	Rice
25	25 of 2015	BITI SAPRI	Rice
26	26 of 2015	Sikla	Rice
27	27 of 2015	Nuapada-Tarbod-SETKA	Rice
28	28 of 2015	UPMC 503	Sorghum
29	29 of 2015	SF 4048	Sunflower
30	30 of 2015	Nirmal-150 (NPH-150)	Rice
31	31 of 2015	JKBH 778	Pearl Millet
32	32 of 2015	AKASH (VBBH 350)	Pearl Millet
33	33 of 2015	KSR 6192	Sorghum
34	34 of 2015	SIGNET-44	Rice
35	35 of 2015	SIGNET-5051	Rice
36	36 of 2015	Suvarna (NSRR-259)	Sorghum
37	37 of 2015	NP-208	Rice
38	38 of 2015	MIJ-010	Sorghum
39	39 of 2015	NB-3 (Madhumati)	Rice
40	40 of 2015	AKMS 14B	Sorghum
41	41 of 2015	Bajaura Makka 1	Maize
42	42 of 2015	Parasmani-2	Indian Mustard
43	43 of 2015	DGJ-014	Sorghum
44	44 of 2015	MIHR-001	Rice
45	45 of 2015	Nirmal-101 (NPH-101)	Rice

8. DUS Test guideline of Jamun (*Syzygium cuminii* Skeels)

9. DUS Test guideline of Bael (*Aegle marmelos* Correa)

PUBLIC NOTICE

Sub:- List of Varieties applied for renewal of registration.

The following are the list of varieties which have been applied for renewal of registration. The annual fees and renewal fees has been duly paid by the following registered breeders, however, the annual fee return form is yet to be received. It is accordingly requested that the following reistered breeders may submit their annual fee return form at the earliest.

PUBLIC NOTICE

Sub:-Details of correction of National Register of Plant Varieties under Section 37 of PPV&FR Act, 2001 read with Rule 60 of PPV&FR Rules, 2003.

- (a) The Ld. Registrar by order dated 02.09.2014 has been pleased to allow the PV-21 filed by Bayer Bioscience Private limited for change of name/address of registered breeder from Bayer Bioscience Private limited to Rasi seeds Private limited , 174 Sathyamurthy Road, Ramnagar, Coimbatore-641009 with regard to registered variety having denomination BCN-401 of crop maize.
- (b) The Ld. Registrar by order dated 27.07.2014 has been pleased to allow the PV-21 filed by Bayer Bioscience Private limited for change of name/address of registered breeder from Bayer Bioscience Private limited to Rasi seeds Private limited , 174 Sathyamurthy Road, Ramnagar, Coimbatore-641009 with regard to registered variety having denomination BCN-404 of crop maize.
- (c) The Ld. Registrar by order dated 01.11.2013 has been pleased to allow the PV-21 filed by Bayer Bioscience Private limited for change of name/address of registered breeder from Bayer Bioscience Private limited to Rasi seeds Private limited , 174 Sathyamurthy Road, Ramnagar, Coimbatore-641009 with regard to registered variety having denomination BCN-403 of crop maize.
- (d) The Ld. Registrar by order dated 02.08.2013 has been pleased to allow the PV-21 filed by Vikram seed limited for change of name/address of registered breeder from Vikram seed limited to Vikram seed Private limited, 209, Ashwamegh Avenue, Near Mithakhali Underbridge, Mayur colony, Navrangpura, 380009 with regard to registered variety having denomination VICH-9 of crop Tetraploid cotton.
- (e) The Ld. Registrar by order dated 03.08.2013 has been pleased to allow the PV-21 filed by Vikram seed limited for change of name/address of registered breeder from Vikram seed limited to Vikram seed Private limited, 209, Ashwamegh Avenue, Near Mithakhali Underbridge, Mayur colony, Navrangpura, 380009 with regard to registered variety having denomination VICH-5 of crop Tetraploid cotton.

Table : 1 Seed send for DUS Testing to different DUS Test Centers during the month of October, 2015.

Sl. No.	Reg. No.	Denomination	Category	DUS Canters	Date of sending	Crop
1	Reg/2014/1952	Sarab Ginger-1	FV	IISR kozhikode	08-Oct-15	Ginger
2	Reg/2014/1327	CHING HO	FV	IISR kozhikode	08-Oct-15	Ginger
3	REG/2015/1291	GUTI ALOO	FV	CPRI Shimla, CPRS Jalandhar, CPRIC Modipuram	08-Oct-15	Potato
4	Reg/2013/419	PUSA RIDHI	New	DOGR Pune & IARI New Delhi	08-Oct-15	Onion
5	Reg/2014/1767	SHORA	FV	DOGR Pune & IARI New Delhi	08-Oct-15	Onion
6	REG/2015/1782	SANWALODA SELECTION	FV	DOGR Pune & IARI New Delhi	08-Oct-15	Onion
7	REG/2015/1191	POLINA SARSON-1	FV	DRMR Bharatpur / CSAUA&T Kanpur	08-Oct-15	Indian Mustard
8	REG/2015/1192	POLINA SARSON-2	FV	DRMR Bharatpur / CSAUA&T Kanpur	08-Oct-15	Indian Mustard
9	REG/2015/1193	SHIV SARSON	FV	DRMR Bharatpur / CSAUA&T Kanpur	08-Oct-15	Indian Mustard
10	REG/2015/1195	ROHI LAL SARSON	FV	DRMR Bharatpur / CSAUA&T Kanpur	08-Oct-15	Indian Mustard
11	REG/2015/1196	MARIA SARSON	FV	DRMR Bharatpur / CSAUA&T Kanpur	08-Oct-15	Indian Mustard
12	Reg/2011/425	HI 1563 (Pusa Prachi)	New	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat
13	Reg/2014/2496	DBW-90	New	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat
14	Reg/2014/2497	DBW-88	New	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat
15	Reg/2014/2491	Ajeet-349	New	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat
16	Reg/2014/1062	EAGLE-135	New	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat
17	Reg/2015/234	QUADAR GOAL GAYHOON	FV	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat
18	Reg/2015/47	LAMHRWAN GEHUN	FV	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat
19	Reg/2015/52	GEHUN (DESI)	FV	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat

20	Reg/2014/2036	DESI	FV	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat
21	Reg/2015/387	GEHUN LAL	FV	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat
22	Reg/2015/407	DEHATI GEHUN LALAKA	FV	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat
23	Reg/2015/374	GEHUN DESI-2	FV	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat
24	Reg/2015/1643	Narmada-14	New	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat
25	REG/2014/2286	BW-321	New	DWR Karnal & IARI Indore	09-Oct-15	Bread Wheat
26	Reg/2014/1063	EAGLE-145	New	DWR Karnal & UAS Dharwad	09-Oct-15	Durum Wheat
27	Reg/2015/135	Kathiya Desi Gehun	FV	DWR Karnal & UAS Dharwad	09-Oct-15	Durum Wheat
28	Reg/2015/860	ABI VOYAGER	New	IIWBR-ICAR (DWR) Karnal & AICW&BP (RARI) Rajasthan	13-Oct-15	Barley
29	Reg/2015/861	INNOVATION	New	IIWBR-ICAR (DWR) Karnal & AICW&BP (RARI) Rajasthan	13-Oct-15	Barley
30	Reg/2015/858	TRADITION	VCK	IIWBR-ICAR (DWR) Karnal & AICW&BP (RARI) Rajasthan	13-Oct-15	Barley
31	Reg/2015/859	CONRAD	VCK	IIWBR-ICAR (DWR) Karnal & AICW&BP (RARI) Rajasthan	13-Oct-15	Barley
32	Reg/2015/126	Nangstakmo	FV	IIWBR-ICAR (DWR) Karnal & AICW&BP (RARI) Rajasthan	13-Oct-15	Barley
33	Reg/2015/373	Desi Jaii-1	FV	IIWBR-ICAR (DWR) Karnal & AICW&BP (RARI) Rajasthan	13-Oct-15	Barley
34	Reg/2015/402	Desi Jaie Sundhbala	FV	IIWBR-ICAR (DWR) Karnal & AICW&BP (RARI) Rajasthan	13-Oct-15	Barley
35	REG/2014/1778	LAL BARLEY	FV	IIWBR-ICAR (DWR) Karnal & AICW&BP (RARI) Rajasthan	13-Oct-15	Barley

36	REG/2014/1779	ARUNA BARLEY	FV	IIWBR-ICAR (DWR) Karnal & AICW&BP (RARI) Rajasthan	13-Oct-15	Barley
37	REG/2015/1201	ROHI LAL JAW-1	FV	IIWBR-ICAR (DWR) Karnal & AICW&BP (RARI) Rajasthan	13-Oct-15	Barley
38		NYAKMOK YOUH	FV	IIWBR-ICAR (DWR) Karnal & AICW&BP (RARI) Rajasthan	13-Oct-15	Barley
39	REG/2014/1834	GUDDI MUSTARD	FV	DRMR Bharatpur & CSAUA&T Kanpur	13-Oct-15	Rapeseed
40	REG/2014/1837	SARAS MUSTARD	FV	DRMR Bharatpur & CSAUA&T Kanpur	13-Oct-15	Rapeseed
41	REG/2014/1838	BIMLA MUSTARD-1	FV	DRMR Bharatpur & CSAUA&T Kanpur	13-Oct-15	Rapeseed
42	REG/2015/261	Methi-6	FV	NRCSS Ajmer & DMAPR Gujarat	13-Oct-15	Fenugreek
43	REG/2015/1833	Shekhar-01	FV	DWR Karnal & IARI Indore	13-Oct-15	Bread Wheat
44	REG/2015/1873	45S46	New	DRMR Bharatpur / CSAUA&T Kanpur	23-Oct-15	Indian Mustard
45	REG/2015/1875	45S32	VCK	DRMR Bharatpur / CSAUA&T Kanpur	23-Oct-15	Indian Mustard
46	REG/2015/1876	45S44	VCK	DRMR Bharatpur / CSAUA&T Kanpur	23-Oct-15	Indian Mustard
47	REG/2015/323	KHILONA-BR	FV	DWR Karnal & IARI Indore	28-Oct-15	Bread Wheat

List of Renewed Registered Varieties

Acknowledgement Number	Applicant Name	Common Name	Date of Certificate issue	Denomination Registered	Period of Protection	Annual Fee (D.D. No, Date and Amount in Rs.)	RENEWAL FEES RECEIVED
REG/2007/249	Indian Council of Agricultural Research	Wheat	20.07.09	MP-4010	11.03.18	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 056025, 09.07.14, 6000 Year 6: 196819, 23.09.2015, 2000	30000, 196942, 01.10.2015
REG/2007/252	Indian Council of Agricultural Research	Wheat	20.07.09	WR-544 (Pusa Bold)	04.11.20	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 056025, 09.07.14, 6000 Year 6: 196820, 23.09.2015, 2000	50000, 196936, 01.10.2015
REG/2007/253	Indian Council of Agricultural Research	Wheat	20.07.09	Shivalik (HS-420)	11.03.18	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 056025, 09.07.14, 6000 Year 6: 196821, 23.09.2015, 2000	30000, 196943, 01.10.2015
REG/2007/254	Indian Council of Agricultural Research	Wheat	20.07.09	Chandrika (HPW-184)	01.02.20	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 Year 3: 302693, 01.05.13, 2000 Year 4: 539926, 27.06.14, 2000 Year 5: 540837, 25.08.14, 2000 Year 6: 196824, 23.09.2015, 2000	50000, 196937, 01.10.2015
REG/2007/255	Indian Council of Agricultural Research	Wheat	20.07.09	VL Gehun-829	11.03.18	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 Year 3: 350959, 12.04.13, 2000 year 4&5: 056025, 09.07.14, 4000 Year 6: 196822, 23.09.2015, 2000	30000, 196944, 01.10.2015
REG/2007/257	Indian Council of Agricultural Research	Wheat	20.07.09	VL Gehun 832	03.02.19	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 Year 3: 350959, 12.04.13, 2000 year 4&5: 056025, 09.07.14, 4000 Year 6: 196823, 23.09.2015, 2000	40000, 196948, 01.10.2015

REG/2007/258	Indian Council of Agricultural Research	Wheat	20.07.09	Pusa Wheat 107(HD-2888)	24.04.21	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 Year 3: 596540, 03.04.13, 2000 year 4&5: 056025, 09.07.14, 4000 Year 6: 196825, 23.09.2015, 2000	60000, 196951, 01.10.2015
REG/2007/260	Indian Council of Agricultural Research	Wheat	20.07.09	Amrita (HI-1500)	11.03.18	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 056025, 09.07.14, 6000 Year 6: 196826, 23.09.2015, 2000	30000, 196945, 01.10.2015
REG/2007/261	Indian Council of Agricultural Research	Wheat	20.07.09	Harshita (HI- 1531)	24.04.21	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 056025, 09.07.14, 6000 Year 6: 196827, 23.09.2015, 2000	60000, 196952, 01.10.2015
REG/2007/262	Indian Council of Agricultural Research	Wheat	20.07.09	Shatabdi (K-0307)	05.02.22	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 056025, 09.07.14, 6000 Year 6: 196828, 23.09.2015, 2000	70000, 196959, 01.10.2015
REG/2007/263	Indian Council of Agricultural Research	Wheat	20.07.09	Palam (HPW-147)	01.02.20	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 Year 3: 302693, 01.05.13, 2000 Year 4: 539926, 27.06.14, 2000 year 5 & 6: 056025, 09.07.14, 4000 Year 7: 540837, 25.08.14, 2000	50000, 196938, 01.10.2015
REG/2007/264	Indian Council of Agricultural Research	Wheat	20.07.09	Tapovan (NIAW-917)	24.04.21	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 056025, 09.07.14, 6000 Year 6: 196829, 23.09.2015, 2000	60000, 196953, 01.10.2015
REG/2007/266	Indian Council of Agricultural Research	Wheat	20.07.09	VL Gehun-802	01.02.20	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 Year 3: 350959, 12.04.13, 2000 Year 4: 329777, 14.03.14, 2000 Year 5&6: 196837, 23.09.2015, 4000	50000, 196939, 01.10.2015

REG/2007/268	Indian Council of Agricultural Research	Wheat	20.07.09	UP-2565	24.04.21	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4 & 5: 301792, 01.05.2015, 6000 Year 6: 196830, 23.09.2015, 2000	60000, 196954, 01.10.2015
REG/2007/271	Indian Council of Agricultural Research	Wheat	20.07.09	Poorva (HD 2824)	03.02.19	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3; 596540, 03.04.13, 2000 year 4&5: 056025, 09.07.14, 4000 Year 6: 196831, 23.09.2015, 2000	40000, 196949, 01.10.2015
REG/2007/274	Indian Council of Agricultural Research	Wheat	20.07.09	HPW-155 (Onkar)	24.04.21	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 Year 3: 302693, 01.05.13, 2000 Year 4: 539926, 27.06.14, 2000 Year 5: 540837, 25.08.14, 2000 Year 6: 196832, 23.09.2015, 2000	60000, 196955, 01.10.2015
REG/2007/285	Indian Council of Agricultural Research	Wheat	20.07.09	Aditya (HD-2781)	03.09.17	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 Year 3: 596540, 03.04.13, 2000 year 4&5: 056025, 09.07.14, 4000 Year 6: 196833, 23.09.2015, 2000	20000, 196947, 01.10.2015
REG/2007/291	Indian Council of Agricultural Research	Wheat	20.07.09	RAJ 4037	03.02.19	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 056025, 09.07.14, 6000 Year 6: 196834, 23.09.2015, 2000	40000, 196950, 01.10.2015
REG/2008/15	Indian Council of Agricultural Research	Sorghum	21.12.09	RSSV-9 (CSV-19SS)	24.08.20	Year 1: 043458, 23.11.10, 2000 Year 2: 175466, 28.05.11, 2000 Year 3: 096438, 26.07.12, 2000 Year 4: 096438, 26.07.12, 2000 year 5: 892556, 31.07.2015, 2000	35,000, 892553 , 31.07.2015(Received from old rate ie: 7000/) Rs. 15000, 893025, 06.10.2015(letter for rest amount has been send on 19.10.2015)
REG/2008/68	Indian Council of Agricultural Research	Sorghum	21.12.09	CSH-20-MF (UPMCH-1101)	24.08.20	Year 1: 043456, 23.11.10, 2000 Year 2: 175465, 28.05.11, 2000 Year 3: 096438, 26.07.12, 2000 Year 4: 096438, 26.07.12, 2000 Year 5: 096438, 26.07.12, 2000	35,000, 892554, 31.07.2015(Received from old rate ie: 7000/) Rs. 15000, 893026,

							06.10.2015
REG/2008/78	Indian Council of Agricultural Research	Sorghum	21.12.09	CSH-22SS (NSSH-104)	04.11.20	Year 1: 043454, 23.11.10, 2000 Year 2: 175464, 28.05.11, 2000 year 3: 420399, 12.09.13, 2000 year 4: 420399, 12.09.13, 2000 year 5: 329124, 01.10.13, 2000 year 6: 329125, 01.10.13, 2000	35,000, 892555, 31.07.2015(Received from old rate ie: 7000/) Rs. 15000, 893026, 06.10.2015
REG/2008/90	Indian Council of Agricultural Research	Kidney bean	20.10.10	Arka Suvidha (IIHR-909)	27.11.21	Year 1,2 & 3: 050920, 28.4.14, 6000 year 4&5: 184926, 15.10.2015, 4000	50,000, 184926, 15.10.2015
REG/2008/91	Indian Council of Agricultural Research	Fieldpea	20.10.10	Arka Ajit (FC-1)	27.11.21	Year 1,2 & 3: 050921, 28.4.14, 6000 year 4&5: 184928, 15.10.2015, 4000	50,000, 184928, 15.10.2015
REG/2008/354	Indian Council of Agricultural Research	Wheat	21.12.09	Mandakini (K-9351)	19.09.21	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 193795, 11.03.2015, 6000	60000, 196956, 01.10.2015,
REG/2008/358	Indian Council of Agricultural Research	Wheat	21.12.09	K-9423 (Unnat Halna)	04.11.20	Year 1: 410382, 16.09.11, 2000Year 2: 412323, 05.12.11, 2000 year 3,4&5: 193798, 11.03.2015, 6000	50000, 196940, 01.10.2015,
REG/2008/384	Indian Council of Agricultural Research	Wheat	21.12.09	Naina (K-9533)	19.09.21	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3, 4 & 5: 193800, 11.03.2015, 6000	60000, 196957, 01.10.2015,
REG/2008/390	Indian Council of Agricultural Research	Wheat	21.12.09	Raj -3777	11.03.18	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 193793, 11.03.2015, 6000	30000, 196946, 01.10.2015,
REG/2008/391	Indian Council of Agricultural Research	Wheat	21.12.09	UP-2526	05.02.22	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 193794, 11.03.2015, 6000	70000, 196960, 01.10.2015,
REG/2008/402	Indian Council of Agricultural Research	Wheat	21.12.09	COW (W) 1	24.04.21	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 193799, 11.03.2015,	60000, 196958, 01.10.2015,

						6000	
REG/2008/403	Indian Council of Agricultural Research	Wheat	21.12.09	UP-2554	05.02.22	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 193796, 11.03.2015, 6000	70000, 196961, 01.10.2015,
REG/2008/408	Indian Council of Agricultural Research	Wheat	21.12.09	HD 2851 (Pusa Vishesh)	04.11.20	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 Year 3: 596540, 03.04.13, 2000 year 4&5: 056025, 09.07.14, 4000	50000, 196941, 01.10.2015,
REG/2008/409	Indian Council of Agricultural Research	Wheat	21.12.09	UP-2572	05.02.22	Year 1: 410382, 16.09.11, 2000 Year 2: 412323, 05.12.11, 2000 year 3,4&5: 193797, 11.03.2015, 6000	70000, 196962, 01.10.2015,
N3 TA94 07 084	Ankur Seeds(P) Limited	Wheat	03-Jul	ANKUR-KEDAR	upto 02.07.2028	year 1: 569064, 19.09.2014, 2000 Year 2: 162423, 13.10.2015, 2000	Rs. 8,61,279/, 162423, 13.10.2015(FOR FY-2014-2015)

PUBLIC NOTICE

Sub: Advertisement is given under sub-section (2) and (3) of Section 21 of the Protection of Plant Varieties and Farmers' Rights Act, 2001 for registration of farmers' variety [Section 2(j)(ii)] read with Rules 30 and 31 of PPV & FR Rules, 2003

It is hereby advertised that the application (s) for registration of farmers' varieties (falling within the definition of extant variety) listed herein have been accepted by the Registrar, Protection of Plant Varieties & Farmers' Rights Authority. The passport data of each variety furnished by the applicant are herewith advertised as specified for calling objections from the interested persons in the matter.

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.1,500/- (Rupees One Thousand and Five Hundred Only) by way of Demand Draft drawn in favour of "The Registrar, PPV & FR Authority" payable at New Delhi.

FORM O - 1
(See Rule 30)

Government of India, Plant Varieties Registry
Advertisement of accepted application for registration

01. Application No.

F1	OS4	11	101
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 filed on 31.01.2011 by **Dr. H S Chawla, Prof. & Nodal Officer, Intellectual Property Management Centre, Deptt of Genetics & Plant Breeding, College of Agriculture, G B Pant Univ. of Agric. & Tech., Pantnagar, Uttarakhand 263145** on behalf of **Buxa Jan Jaati Jaivik Krishak Samooh, Kewalganj Gadarpur, Udham Singh Nagar 263152, Uttarakhand** for a **Farmers' variety** of crop **Rice (*Oryza sativa* L.)** having denomination **Dhania**, 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 : **Dhania**

Applicant : **Buxa Jan Jaati Jaivik Krishak Samooh,**

Address of the Applicant : **Kewalganj Gadarpur, Udham Singh Nagar 263152, Uttarakhand**

Nationality of Applicant : Indian

Application details

a. Number :

F1	OS4	11	101
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b. Date of receipt : 31.01.2011

c. Date of acceptance : 31.01.2011

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

Denomination : **Dhania**

Type of Variety : Farmers' variety

Classification of Variety : Typical Variety

Previously proposed : **Dhania**

Denomination

Name of Parental Material : NA

Name of Reference Varieties : **Savithri**

Variety Description:

A. Group Characteristics	Remarks measured values, example varieties, etc.
Basal leaf: Sheath colour	Green
Time of heading (50 % of plants with panicles)	Medium
Stem: Length (excluding panicle; excluding floating rice)	Short

Decorticated grain: Length	Short
Decorticated grain: Shape (in lateral view)	Short Bold
Decorticated grain: Colour	White
Endosperm: Content of amylose	Medium
Decorticated grain: Aroma	Absent
B. Distinct Characteristics:	
Dhania has distinguishing characters as Leaf: Pubescence of blade surface: Absent	

C. Reference varieties:
Savithri has distinguishing characters as Leaf: Pubescence of blade surface: Weak

D. Date of commercialization of the variety	----
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02. Application No.

F933	OS969	11	1338
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 filed on 13.12.2011 by **M. Ramakrishnan, Prathapampuram Kil-Vilur (PO) Nagapattinan (T.K)** on behalf of **Members of Poovai Uzhavar Mandram, Prathapampuram, Kil-Vilur (PO) Nagapattinam (T.K), Tamil Nadu** for a **Farmers' variety** of crop **Rice** (*Oryza sativa* L.) having denomination **Kudai Vazhai**, 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 : **Kudai Vazhai**

Applicant : **Members of Poovai Uzhavar Mandram**

Address of the Applicant : **Prathapampuram, Kil-Vilur (PO) Nagapattinam (T.K), Tamil Nadu**

Nationality of Applicant : **Indian**

Application details

a. Number :

F933	OS969	11	1338
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b. Date of receipt : 13.12.2011

c. Date of acceptance : 13.12.2011

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

Denomination : **Kudai Vazhai**

Type of Variety : **Farmers' variety**

Classification of Variety : **Typical Variety**

Previously proposed : **Kudai Vazhai**

Denomination

Name of Parental Material : **NA**

Name of Reference Varieties : Annada

Variety Description:

A. Group Characteristics	Remarks measured values, example varieties, etc.
Basal leaf: Sheath colour	Green
Time of heading (50 % of plants with panicles)	Medium
Stem: Length (excluding panicle; excluding floating rice)	Very Short
Decorticated grain: Length	Short
Decorticated grain: Shape (in lateral view)	Short Bold
Decorticated grain: Colour	Light Brown
Endosperm: Content of amylose	Medium
Decorticated grain: Aroma	Absent
B. Distinct Characteristics: Kudai Vazhai has distinguishing characters as Flag leaf: Attitude of blade (late observation) : Erect	

C. Reference varieties: Annada has distinguishing characters as Flag leaf: Attitude of blade (late observation) : Semi erect
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D. Date of commercialization of the variety	----
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03. Application No.

F936	OS972	11	1341
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 filed on 13.12.2011 by **M. Balasubramanian, 4/65, South Street, Kulipirai (PO), Thirumaiaam (T.K) Podukkottai (Dt)** on behalf of **Members of Kulipirai Uzhavar Mandram, 4/65, Southstreet, Kulipirai (PO), Thirumaiaam (T.K) Podukkottai (Dt), Tamil Nadu** for a **Farmers' variety** of crop **Rice (*Oryza sativa* L.)** having denomination **Kavuni**, 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 : **Kavuni**

Applicant : **Members of Kulipirai Uzhavar Mandram**
Address of the Applicant : **4/65, Southstreet, Kulipirai (PO), Thirumaiaam (T.K) Podukkottai (Dt), Tamil Nadu**

Nationality of Applicant : **Indian**

Application details

a. Number

F936	OS972	11	1341
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b. Date of receipt : 13.12.2011
c. Date of acceptance : 13.12.2011
Crop (Taxonomical Lineage) : Rice (*Oryza sativa* L.)
Denomination : **Kavuni**
Type of Variety : Farmers' variety
Classification of Variety : Typical Variety
Previously proposed : **Kavuni**
Denomination
Name of Parental Material : NA
Name of Reference Varieties : **Suraksha**

Variety Description:

A. Group Characteristics	Remarks measured values, example varieties, etc.
Basal leaf: Sheath colour	Uniform Purple
Time of heading (50 % of plants with panicles)	Medium
Stem: Length (excluding panicle; excluding floating rice)	Short
Decorticated grain: Length	Short
Decorticated grain: Shape (in lateral view)	Medium Slender
Decorticated grain: Colour	Dark purple
Endosperm: Content of amylose	Medium
Decorticated grain: Aroma	Absent
B. Distinct Characteristics:	
Kavuni has distinguishing characters as Basal leaf: Sheath colour : Uniform purple Leaf: Anthocyanin colouration of auricles : Purple	

C. Reference varieties: Suraksha has distinguishing characters as Basal leaf: Sheath colour : Green Leaf: Anthocyanin colouration of auricles : Colourless

D. Date of commercialization of the variety	----
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04. Application No.

F931	OS967	11	1336
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 filed on 13.12.2011 by **G Moghanraj Yadhav, 1/230, Poonthottam Street, Sangamangalam 611108, Nagapattinam Tamil Nadu** on behalf of **Members of Sangai Uzhavar Mandram, Sangamangalam 611108, Nagapattinam, Tamil Nadu** for a **Farmers' variety** of crop **Rice (*Oryza sativa* L.)** having denomination **Karung Kuruvai**, 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 : **Karung Kuruvai**

Applicant : **Members of Sangai Uzhavar Mandram**
Address of the Applicant : **Sangamangalam 611108, Nagapattinam, Tamil Nadu**
Nationality of Applicant : **Indian**

Application details

a. Number	:	F931	OS967	11	1336
b. Date of receipt	:	13.12.2011			
c. Date of acceptance	:	13.12.2011			

Crop (Taxonomical Lineage) : **Rice (*Oryza sativa* L.)**
Denomination : **Karung Kuruvai**
Type of Variety : **Farmers' variety**
Classification of Variety : **Typical Variety**
Previously proposed : **Karung Kuruvai**
Denomination
Name of Parental Material : **NA**
Name of Reference Varieties : **Suraksha**

Variety Description:

A. Group Characteristics	Remarks measured values, example varieties, etc.
Basal leaf: Sheath colour	Green
Time of heading (50 % of plants with panicles)	Medium
Stem: Length (excluding panicle; excluding floating rice)	Very Short
Decorticated grain: Length	Short
Decorticated grain: Shape (in lateral view)	Medium Slender
Decorticated grain: Colour	Dark purple
Endosperm: Content of amylose	Medium
Decorticated grain: Aroma	Absent
B. Distinct Characteristics: Karung Kuruvai has distinguishing characters as Spikelet: Density of pubescence of lemma : Strong Decorticated grain: Colour : Dark purple	

C. Reference varieties: Suraksha has distinguishing characters as Spikelet: Density of pubescence of lemma : Weak Decorticated grain: Colour : Light Brown

D. Date of commercialization of the variety	----
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05. Application No.

F932	OS968	11	1337
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 filed on 13.12.2011 by **G Moghanraj Yadhav, 1/230, Poonthottam Street, Sangamangalam 611108, Nagapattinam Tamil Nadu** on behalf of **Members of Sangai Uzhavar Mandram, Sangamangalam 611108, Nagapattinam, Tamil Nadu** for a **Farmers' variety** of crop **Rice (*Oryza sativa* L.)** having denomination **Jeeraga Samba**, 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 : **Jeeraga Samba**

Applicant : **Members of Sangai Uzhavar Mandram**
Address of the Applicant : **Sangamangalam 611108, Nagapattinam, Tamil Nadu**
Nationality of Applicant : **Indian**

Application details

a. Number	:	F931	OS967	11	1336
b. Date of receipt	:	13.12.2011			
c. Date of acceptance	:	13.12.2011			

Crop (Taxonomical Lineage) : **Rice (*Oryza sativa* L.)**
Denomination : **Jeeraga Samba**
Type of Variety : **Farmers' variety**
Classification of Variety : **Typical Variety**
Previously proposed : **Jeeraga Samba**
Denomination
Name of Parental Material : **NA**
Name of Reference Varieties : **Annada**

Variety Description:

A. Group Characteristics	Remarks measured values, example varieties, etc.
Basal leaf: Sheath colour	Green
Time of heading (50 % of plants with panicles)	Medium
Stem: Length (excluding panicle; excluding floating rice)	Very Short
Decorticated grain: Length	Short
Decorticated grain: Shape (in lateral view)	Short Bold
Decorticated grain: Colour	Light Brown
Endosperm: Content of amylose	Medium
Decorticated grain: Aroma	Present
B. Distinct Characteristics:	
Jeeraga Samba has distinguishing characters as Panicle: Attitude of branches : Erect to semi-erect	

C. Reference varieties: Annada has distinguishing characters as Panicle: Attitude of branches : Semi-erect
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D. Date of commercialization of the variety	----
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06. Application No.

F1	OS7	12	70
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 filed on 21.03.2012 by **Dr. H S Chawla, Prof. & Nodal Officer, Intellectual Property Management Centre, Deptt of Genetics & Plant Breeding, College of Agriculture, G B Pant Univ. of Agric. & Tech., Pantnagar, Uttarakhand 263145** on behalf of **Gram Panchayat Haripura, Village & P O Haripura, Block Bazpur, Distt. U S Nagar, Uttarakhand 262401** for a **Farmers' crop Rice (*Oryza sativa* L.)** having denomination **Bindli**, 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 : **Bindli**

Applicant : **Gram Panchayat Haripura**
Address of the Applicant : **Village & P O Haripura, Block Bazpur, Distt. U S Nagar, Uttarakhand 262401**

Nationality of Applicant : Indian

Application details

F1	OS7	12	70
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a. Number :
b. Date of receipt : 21.03.2012
c. Date of acceptance : 21.03.2012

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

Denomination : **Bindli**
Type of Variety : Farmers' variety
Classification of Variety : Typical Variety
Previously proposed : **Bindli**
Denomination
Name of Parental Material : NA
Name of Reference Varieties : **Swarnadhan**

Variety Description:

A. Group Characteristics	Remarks measured values, example varieties, etc.
Basal leaf: Sheath colour	Green
Time of heading (50 % of plants with panicles)	Late
Stem: Length (excluding panicle; excluding floating rice)	Short
Decorticated grain: Length	Short
Decorticated grain: Shape (in lateral view)	Short Bold
Decorticated grain: Colour	White
Endosperm: Content of amylose	Medium

Decorticated grain: Aroma	Absent
B. Distinct Characteristics: Bindli has distinguishing characters as Panicle: Awns : Present	

C. Reference varieties: Swarnadhan has distinguishing characters as Panicle: Awns : Absent	
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D. Date of commercialization of the variety	----
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07. Application No.

F62	OS91	12	430
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 filed on 05.10.2012 by **Chairman, VRIHI, 9 Old Calcutta Road, Barrackpore, Kolkata 700123**, for a **Farmers' variety** of crop **Rice (*Oryza sativa* L.)** having denomination **Sada Jhuli**, 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 : **Sada Jhuli**

Applicant : **Chairman, VRIHI,**
Address of the Applicant : **9 Old Calcutta Road, Barrackpore, Kolkata 700123**
Nationality of Applicant : Indian

Application details

a. Number	:	<table border="1"><tr><td>F62</td><td>OS91</td><td>12</td><td>430</td></tr></table>	F62	OS91	12	430
F62	OS91	12	430			
b. Date of receipt	:	05.10.2012				
c. Date of acceptance	:	05.10.2012				

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

Denomination : **Sada Jhuli**

Type of Variety : Farmers' variety

Classification of Variety : Typical Variety

Previously proposed : **Jhuli**

Denomination

Name of Parental Material : NA

Name of Reference Varieties : **Suraksha**

Variety Description:

A. Group Characteristics	Remarks measured values, example varieties, etc.
Basal leaf: Sheath colour	Purple Lines
Time of heading (50 % of plants with panicles)	Early
Stem: Length (excluding panicle; excluding floating	Very Short

rice)	
Decorticated grain: Length	Medium
Decorticated grain: Shape (in lateral view)	Medium Slender
Decorticated grain: Colour	White
Endosperm: Content of amylose	Medium
Decorticated grain: Aroma	Absent
B. Distinct Characteristics:	
Sada Jhuli has distinguishing characters as Spikelet: Colour of stigma: Purple	

C. Reference varieties:
Suraksha has distinguishing characters as Spikelet: Colour of stigma: White

D. Date of commercialization of the variety	----
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08. Application No.

F1	CA7	09	327
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 filed on 20.07.2009 by **National Innovation Foundation, Bungalow No.1, Premchandnagar Road, Jodhpur Tekra, Ahmedabad 380015, Gujarat** on behalf of **Sunda Ram Verma, Village and Post Danta, District Sikar, Rajasthan** for a Farmers' crop **Chickpea (*Cicer arietinum* L.)** having denomination **SR-1**, 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 : **SR-1**

Applicant : **Sunda Ram Verma,**
Address of the Applicant : **Village and Post Danta, District Sikar, Rajasthan**
Nationality of Applicant : **Indian**

Application details

F1	CA7	09	327
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a. Number :
b. Date of receipt : 20.07.2009
c. Date of acceptance : 20.07.2009

Crop (Taxonomical Lineage) : **Chickpea (*Cicer arietinum* L.)**
Denomination : **SR-1**
Type of Variety : **Farmers' variety**
Classification of Variety : **Typical Variety**
Previously proposed : **SR-1**
Denomination
Name of Parental Material : **NA**

Name of Reference Varieties : HK98-155, Virat, BG267, JGK 1, Pusa1003, RSGK 6, GNG 1292, BGD128, Pusa 1053

Variety Description:

A. Group Characteristics	Remarks measured values, example varieties, etc.
Time of flowering	Medium
Flower: Colour	White
Seed: Colour	Beige (kabuli)
Seed: Size	Large
B. Distinct Characteristics:	
SR-1 has distinguishing characters as Plant: Color of foliage : Medium Green Leaflet : Size (length) : Large Seed : Size : Large	

C. Reference varieties:	
HK98-155 has distinguishing characters as Plant: Color of foliage :Light Green, Leaflet : Size (length):Medium, Seed : Size :Medium	
Virat has distinguishing characters as Plant: Color of foliage :Light Green, Seed : Size :Medium	
BG267 has distinguishing characters as Plant: Color of foliage :Light Green, Leaflet : Size (length):Small, Seed : Size : Very Small	
GNG 1292 has distinguishing characters as Leaflet : Size (length): Small, Seed : Size : Small	
BGD128 has distinguishing characters as Leaflet : Size (length):Medium, Seed : Size : Small	
JGK1 has distinguishing characters as Plant: Color of foliage :Light Green, Seed : Size :Medium	
Pusa1003 has distinguishing characters as Plant: Color of foliage :Light Green, Leaflet : Size (length):Medium, Seed : Size :Small	
RSGK6 has distinguishing characters as Plant: Color of foliage :Light Green, Leaflet : Size (length):Medium, Seed : Size :Medium	
Pusa 1053 has distinguishing characters as Plant: Color of foliage :Medium Green, Leaflet : Size (length):Medium, Seed : Size : Large	
D. Date of commercialization of the variety	----

09. Application No.

F1	ZM6	12	71
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 filed on 22.03.2012 by **Dr. H S Chawla, Prof. & Nodal Officer, Intellectual Property Management Centre, Deptt of Genetics & Plant Breeding, College of Agriculture, G B Pant Univ. of Agric. & Tech., Pantnagar, Uttarakhand 263145** on behalf of **Gram Panchayat Pasholy, P O Roshila, Vikash Khand Bhimtal, Distt. Nainital, Uttarakhand 263126** for a **Farmers' crop Maize (*Zea mays* L)** having denomination **Mohini**, 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 : Mohini

Applicant : **Gram Panchayat Pasholy,**
Address of the Applicant : **P.O. Roshila, Vikash Khand Bhimtal, Distt. Nainital,**
Uttarakhand 263126
Nationality of Applicant : **Indian**

Application details

a. Number :

F1	ZM6	12	71
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b. Date of receipt : 22.03.2012
c. Date of acceptance : 22.03.2012

Crop (Taxonomical Lineage) : **Maize (*Zea mays* L)**
Denomination : **Mohini**
Type of Variety : **Farmers' variety**
Classification of Variety : **Typical Variety**
Previously proposed : **Mohini**
Denomination
Name of Parental Material : **NA**
Name of Reference Varieties : **Vivek and PMH 3**

Variety Description:

A. Group Characteristics	Remarks measured values, example varieties, etc.
Tassel: Time of anthesis (on middle third of main axis, 50 % of plants)	Very Early
Ear: Time of silk emergence (50% plants)	Very Early
Ear: Anthocyanin colouration of silks (on day of emergency)	Present
Hybrids and open pollinated varieties only: Plant : Length (up to flag leaf)	Medium
Ear Type of grain	Semiflint/semident

B. Distinct Characteristics:
Mohini has distinguishing characters as
Ear: Colour of top of grain: White

C. Reference varieties:
Vivek has distinguishing characters as
Ear: Colour of top of grain: Yellow
PMH 3 has distinguishing characters as
Ear: Colour of top of grain: Orange

D. Date of commercialization of the variety	----
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PUBLIC NOTICE

Sub: 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

It is hereby advertised that the application (s) for registration of varieties listed herein have been accepted subject to the condition of fulfillment of provisions under section 19 of the Act read with Rule 29 of PPV&FR Rules, 2003. The passport data of each variety furnished by the applicant are herewith advertised as specified for calling objections from the interested persons in the matter.

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.1,500/- (Rupees One Thousand and Five Hundred Only) by way of Demand Draft drawn in favour of "The Registrar, PPV & FR Authority" payable at New Delhi.

FORM O - 1
(See Rule 30)
Government of India, Plant Varieties Registry
Advertisement of accepted application for registration

01.Application No.

E16	PG24	09	382
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 filed on **22.09.2009** by **M/s Nirmal Seeds Pvt. Ltd., P.O. Box-63, Bhadgaon Road, Pachora-424201, Dist: Jalgaon, M.S. India** for a **Extant** (Variety of Common Knowledge) of crop **Pearl Millet** (*Pennisetum glaucum* L.) having denomination **Nirmal-1651 (NPH-1651)**, 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 : **Nirmal-1651 (NPH-1651)**
Applicant : **M/s Nirmal Seeds Pvt. Ltd.**
Address of the Applicant : P.O. Box-63, Bhadgaon Road, Pachora-424201,
Dist: Jalgaon, M.S. India

Nationality of Applicant : Indian

Application details

a. Number :
b. Date of receipt :

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c. Date of acceptance : --

Crop (Taxonomical Lineage) : Pearl Millet (*Pennisetum glaucum* L.)
Denomination : Nirmal-1651 (NPH-1651)
Type of Variety : Extant (Variety of Common Knowledge)
Classification of Variety : Hybrid Variety
Previously proposed Denomination : Not applicable
Name of Parental Material : N 4310A x N 5650R
Source of parental material : Own germplasm
Name of Reference Varieties : Nandi 61
Variety Description:

A. Group Characteristics	Remarks measured values, example varieties, etc.
Time of spike emergence (50% plants with at least one spike emerged fully)	Very late
Spike: Anther colour	Purple
Spike: shape	Candle
Seed: Colour	Grey brown
Seed: Shape	Obovate
B. Distinct Characteristics: Nirmal-1651 (NPH-1651) has distinguishing character as Spike: Anther colour: Purple and Plant Node pubescence: Present	
C. Reference variety: Nandi 61 has distinguishing character as Spike: Anther colour: Yellow and Plant Node pubescence: Absent .	
D. Date of commercialization of the variety	15.05.2005
E. Agronomic and commercial attributes	3133.33 Grain yield (Kg/ hac.)

Photographs: (See Figure 01)

Nutmeg (*Myristica fragrans* Houtt.)

I. Subject:

These test guidelines shall apply to all varieties of Nutmeg (*Myristica fragrans* Houtt.)

II. Material required:

1. The Protection of Plant Varieties and Farmers' Rights Authority (PPV&FRA) shall decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered for registration under the Protection of Plant Varieties and Farmers' Rights (PPV&FRA) Act, 2001. Applicants submitting such plant 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. As a minimum the applicant may submit 10 grafted or budded plants of Nutmeg grafted on Nutmeg (*Myristica fragrans*) rootstock for each centre.
2. The plant material supplied should be visibly healthy, not lacking in vigour, nor affected by any important pest or disease.
3. The plant material should not have undergone any treatment, which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.
4. The minimum number of planting material to be supplied by the applicant or his nominee during June-July shall be 10 numbers grafted / budded plants of the candidate variety.

III. Conduct of tests:

1. The minimum duration of the DUS tests shall normally be at least two fruiting season in different years. Tests shall be conducted at least at two places.
2. The test should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for conduct of the evaluation. Each test should include total of 6 trees. In particular, it is essential that the trees produce a satisfactory crop of fruit in each of the two growing seasons.

Test Design

The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

Test plot design

No. of rows: one

Plant to plant distance: 3 m

Additional test protocol for special purpose shall be established by the PPV & FR Authority.

On-site DUS testing:

1. The applicant or his/her nominee on his/her behalf shall submit a request to the Authority for conducting a reliable trial according to Test Guidelines and the instructions from Authority before on-site examination of the candidate variety. It will be the responsibility of the applicant to conduct the trial of the candidate variety(s) along with the suitable reference variety. This may be relaxed in case of farmers' variety, as the case may be.
2. The applicant or his/her nominee shall submit a request to the Authority for on-site examination prior to start of growing cycle as mentioned in Test Guidelines for site examination of the candidate variety.
3. On-site testing may be conducted at the places specified by the applicant. The age of the trees at on-site shall be minimum 8 years.
4. As a minimum, one (1) mother plant/tree and four (4) vegetatively propagated plants/trees should be available for inspection and examination for 'on-site DUS testing'. The vegetatively propagated plants can also be inspected if located at nearby places. The trees must be healthy and free from pest & diseases and raised under standard management practices. For farmer's variety or landraces, the authority may notify suitable guidelines on the number of plant(s) and season(s), if any.
5. On-site examination shall be arranged when the essential and distinguishing characteristics of candidate variety can most easily be seen. The characteristics of the candidate variety can be examined and compared with those of the comparative varieties as per the Test guidelines.
6. The Expert Committee constituted by the PPV & FR Authority in consultation with the DUS Centre shall be authorized to inspect on-site testing and recording of the appropriate characters.
7. Applicant shall supply the Expert Committee with summary of distinct characteristics supported by photographs. The Expert Committee shall take notes and observations on distinctness and shall confirm preliminary data and/or summary of distinctness from applicant.
8. The Expert Committee shall submit examination report to the Authority.
9. In the absence of prescribed number of plants of the candidate variety for 'on-site' testing for farmers' variety, the DUS test duration should be enhanced to include at least one more season.
10. The Authority may relax the criteria for no. of plants, spacing and other requirements maximum for a period upto 3 years from the date of publication of the general guidelines in the Plant Varieties Journal of India.

IV. Methods and observations:

1. All observations on the tree and the branches can be made throughout the year.

2. Time of bloom should be recorded when it is at its peak (March to October).
3. All observations on the leaf should be made on fully developed leaves of the middle third or fourth on mature shoot.
4. Time of maturity should be recorded from peak blooming to peak harvesting.
5. Observations on the mature fruit should be recorded when fruit is ready for harvest (splitting of fruit).
6. Observations on seed and mace should be recorded after harvesting of fruit.
7. Type of assessment of characteristics as indicated in column of Table VII of characteristics is as follows.

- a) **MG**: *Measurement by a single observation of a group of plants or parts of plants*
- b) **MS**: *Measurement by a single observation of individual plants or parts of plant*
- c) **VG**: *Visual assessments by a single observation of a group of plants or part of plants*
- d) **VS**: *Visual assessments by observation of individual plants or parts of plant.*

V. Grouping of Varieties:

1. The candidate varieties for DUS testing shall be divided into groups to facilitate the assessment of Distinctiveness. Characteristics, which are known from experience not to vary, or to vary only slightly within a variety and which in their various states are fairly evenly distributed across all varieties in the collection are suitable for grouping purpose.
2. It is recommended that the competent authorities use the following characteristics for grouping varieties
 - a. Tree growth habit: Crown Shape (Characteristic 4)
 - b. Fruiting/ Bearing habit: Shape of Fruit (Characteristic 16)
 - c. Inflorescence: Shape of Female Flower (Characteristic 13)
 - d. Leaf characteristics: Leaf Blade Shape (Characteristic 8)
 - e. Nut and mace: Seed Shape (Characteristic 25)

VI. Characteristics and Symbol:

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 to 9) shall be given for each state of expression for different characteristics for the purpose of electronic data processing.
3. Legend
 - (*) Characteristics that shall be observed during every growing season on all varieties and shall always be included in the description of the variety, except when the state of expression of any of these characters is rendered impossible by a preceding phenological characteristic or by the environmental conditions of the testing region. Under such exceptional situation, adequate explanation shall be provided.
 - (+) See Explanation on the Table of characteristics in Section VIII. It is to be noted for certain characteristics. The plant parts on which observations to be taken are given in the explanation or figure(s) for clarity and the colour variation.

4. A code number in the sixth column of Table of characteristics indicates the optimum stage for the observation of each characteristic during the growth and development of plant. The relevant growth stages corresponding to these code numbers are described below:
- Observations on tree vigour and growth habit should be made at the central shoot during flowering and fruiting season of adult trees relative to reference cultivars.
 - Observations on fruiting/ bearing habit should be made on the mature fruit should be recorded when fruit is ready for harvest and after harvesting of fruit (splitting of fruit).
 - Observations on inflorescence should be made when flowering is at its peak (March to October).
 - Observations on the leaf should be made on fully developed leaves on mature shoot.
 - Observations on nut and mace should be made after harvesting of fruits on fresh nuts and mace.

VII. Table of Characteristics:

Sr. No .	Characteristics	States	Notes	varieties characterize d	Stages of observati on	Type of Assessment
1	2	3	4	5	6	7
1. (*)	Tree vigour	Weak	3	DPLNG-4, DPLNG – 31	a	VS
		Intermediate	5	Konkan Swad, Konkan Sugandha		
		Strong	7	DPLNG -1, DPLNG- 46		
2. (*)	Sexual system	Dioecious Male	1	DPLNG-3, DPLNG-18	C	VG
		Dioecious Female	2	Konkan Swad, Konkan Shrimanti, Keralshree		
		Monoecious (Male + Female)	3	Konkan Sugandha, DPLNG- 11		
3.	Flowering pattern in monoecious plants	Male dominated	1	DPLNG -11, DPLNG-86	C	VS
		Female dominated	9	Konkan Sugandha, DPLNG-39		
4. (+)	Crown shape	Pyramidal	1	DPLNG- 15, DPLNG- 127	A	VS
		Conical	3	DPLNG- 4,		

				DPLNG- 31		
		Spreading	5	Konkan Swad, DPLNG-9		
		Rounded	7	Konkan shrimanti, DPLNG- 1		
5.	Height of tree	Dwarf (<4 m.)	1	DPLNG -14, DPLNG -121	A	VS
		Medium (4-5 m.)	3	Konkan Swad, Konkan shrimanti		
		Tall (> 5m.)	5	DPLNG – 35, DPLNG-141		
6. (+)	Leaf blade: length (cm)	Short (<10 cm.)	3	DPLNG- 4, DPLNG-31	D	MG
		Medium (10-20 cm.)	5	Konkan Sugandha, Kerala shree,		
		Long (>20 cm.)	7	DPLNG-8, DPLNG- 59		
7. (+)	Leaf blade: width (cm)	Narrow (< 4 cm.)	3	DPLNG- 4, DPLNG-14	D	MG
		Medium (4-8 cm.)	5	Konkan Swad, Konkan Sugandha		
		Wide (>8 cm.)	7	DPLNG- 15, DPLNG- 48		
8. (* (+)	Leaf blade: shape	Linear	1	DPLNG- 4, DPLNG- 8	D	VG
		Ovate	3	DPLNG- 58, DPLNG-73		
		Obovate	5	DPLNG -10, DPLNG- 30		
		Elliptic	7	Kerala shree, DPLNG-7		
		Oblong	9	Konkan Swad, Konkan Sugandha,		
9.	Prominancy of veins	Prominent	1	Konkan Swad,		

				Keralshree	d	VG
		Non-Prominent	9	DPLNG-114, DPLNG- 74		
10. (+)	Leaf margin	Entire	1	Konkan Swad, Konkan Sugandha,	d	VG
		Wavy	9	DPLNG- 4, DPLNG- 8		
11. (+)	Leaf blade: shape of apex	Obtuse	1	DPLNG-79, DPLNG-103	d	VG
		Acute	3	DPLNG-4, DPLNG-123		
		Shortly Acuminate	5	Konkan Swad, Konkan Sugandha		
		Acuminate	7	Keralshree, DPLNG-1		
12. (+)	Leaf blade: shape of base	Acute	1	Keralshree, DPLNG- 1	d	VG
		Obtuse	9	Konkan Swad, Konkan Sugandha		
13 (* (+)	Flower : shape of female flower	Oblate	1	Keralshree, DPLNG-99	c	VG
		Ovate	3	Konkan Swad, DPLNG – 120,		
		Short elliptical	5	DPLNG-132, DPLNG-102		
		Long elliptical	7	DPLNG-100,		
fruiting/ bearing habit						
14. (+)	Fruit Length	Short (< 50 mm.)	3	DPLNG- 39, DPLNG-108	b	MG
		Medium (50-70 mm.)	5	Konkan Sugandha, Keralshree		
		Long (> 70 mm.)	7	DPLNG- 75, DPLNG-94		
15. (+)	Fruit Diameter	Short (< 40 mm.)	3	DPLNG- 39, DPLNG- 75	b	MG

		Medium (40-50 mm.)	5	Konkan Swad, Konkan Sugandha		
		Long (> 50 mm)	7	DPLNG- 1, DPLNG- 78		
16. (* (+)	Shape of fruit	Circular	1	Konkan shrimanti, DPLNG- 50	b	VG
		Elliptic	3	Konkan Sugandha, DPLNG- 65		
		Ovate	5	Konkan Swad, Vishwashree		
		Shortly elongated	7	Keralshree, DPLNG- 61,		
		Elongated	9	DPLNG-75, DPLNG- 94		
17. (* (+)	Presence of Neck	Present	1	Konkan Swad, Konkan Sugandha	b	VS
		Absent	9	DPLNG- 50,		
18. (* (+)	Shape at ventral shoulder	Rounded upward	1	DPLNG-77	b	VG
		Rounded downward	3	DPLNG-50, DPLNG-96		
		Sloping downward	5	Konkan Swad, Keralshree		
		Falling abruptly	7	DPLNG-75, DPLNG- 94		
19. (* (+)	Shape at dorsal shoulder	Rounded upward	1	DPLNG-50, DPLNG-81	b	VG
		Rounded outward	3	Konkan Sugandha, DPLNG-21		
		Rounded downward	5	Keralshree, DPLNG-47		
		Sloping downward	7	Konkan Swad, Konkan shrimanti		
		Falling abruptly	9	DPLNG-75, DPLNG- 94		
20. (* (+)	Presence of Stylar scar	Present	1	Keralshree, Konkan Swad	b	VS
		Absent	9	Konkan shrimanti, Konkan Sugandha		

21. (+)	Shape of Stylar scar	Pointed	1	Keralshree, DPLNG-10	b	VS
		Rounded	3	DPLNG- 50, DPLNG-59		
		Blunt	5	Konkan Swad, DPLNG- 39		
		Beak	7	DPLNG-75, DPLNG- 94		
seed and mace						
22. (* (*)	Presence of Caruncle	Present	1	DPLNG-98	e	VS
		Absent	9	Konkan Swad, Konkan Sugandha		
23. (* (+)	Mace covering pattern	Partial reticulate	1	DPLNG-39, Konkan Swad	e	VG
		Entire reticulate	3	Keralshree, Konkan Sugandha		
		Compact	5	DPLNG- 92, DPLNG-97		
24. (* (*)	Type of mace probe	Beak	1	DPLNG-58, DPLNG-59	e	VG
		Blunt	9	Konkan Swad, Konkan Sugandha		
25. (* (+)	Seed shape	Round	1	Konkan Sugandha, DPLNG-41	e	VG
		Ovate	3	DPLNG-31, DPLNG-90		
		Obovate	5	Keralshree, DPLNG-43		
		Elliptic	7	Konkan Shrimanti, DPLNG-75		
		Trapezoid	9	Konkan Swad, DPLNG-58		
26.	Seed colour	Brownish black	1	Keralshree, DPLNG-31	e	VG
		Black	9	Vishwashree, Konkan		

				Swad		
27.	Presence twin seed pattern	Absent	1	Keralshree, Konkan Swad	e	VG
		Present	9	DPLNG - 44, DPLNG - 72		

VIII. Explanations on table of characteristics

Characteristic 4: Crown shape



1
Pyramidal



3
Conical

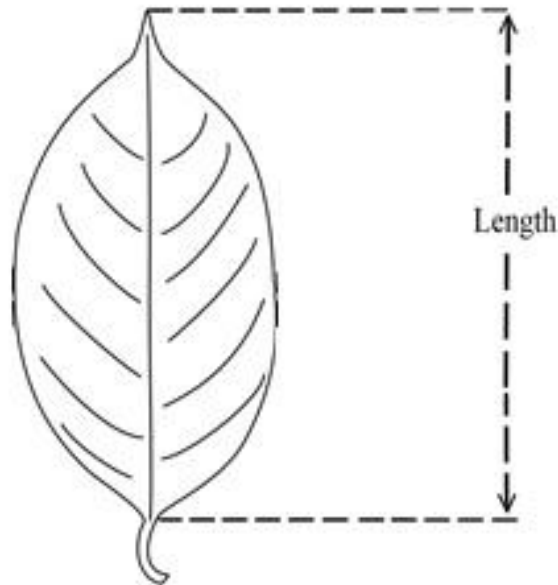


5
Spreading

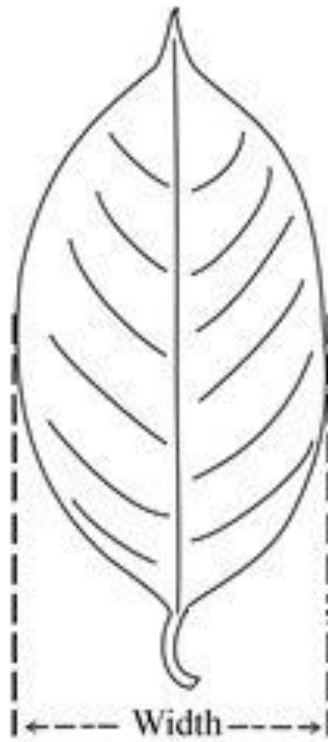


7
Rounded

Characteristic 6: Leaf blade length



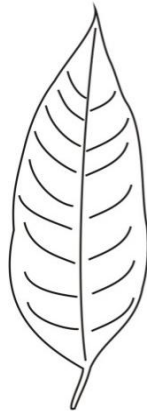
Characteristic 7: Leaf blade Width



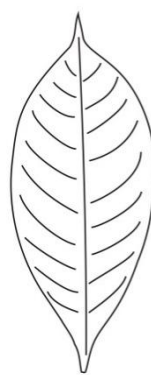
Characteristic 8: Leaf Blade: Shape of Leaf



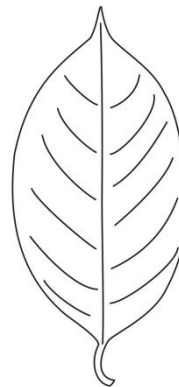
1
Linear



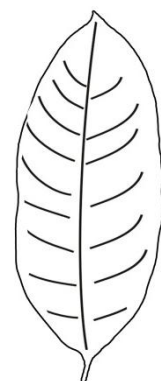
3
Ovate



5
Obovate

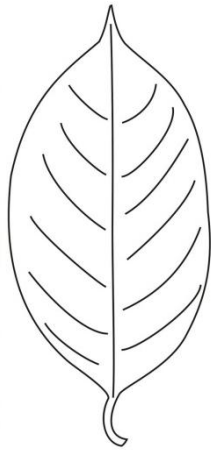


7
Elliptic



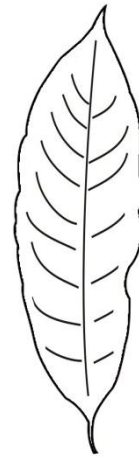
9
Oblong

Characteristic 10: Leaf margin



1

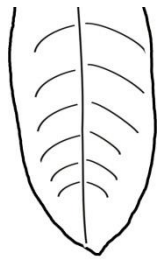
Entire



9

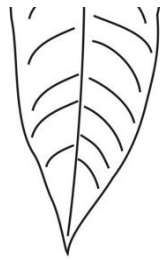
Wavy

Characteristic 11: Shape of leaf apex



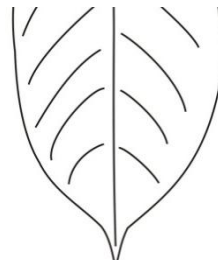
1

Obtuse



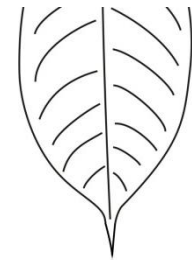
3

Acute



5

Shortly Acuminate



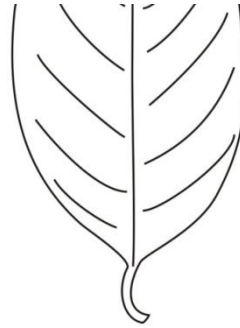
7

Acuminate

Characteristic 12: Leaf blade : Shape of base

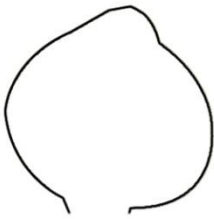


1
Acute



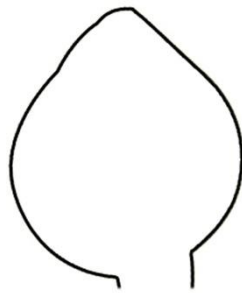
9
Obtuse

Characteristic 13 : Shape of female flower



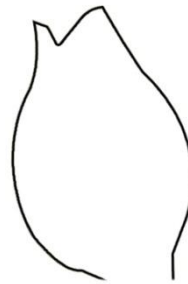
1

Oblate



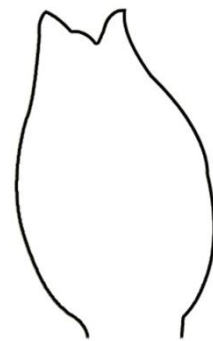
3

Ovate



5

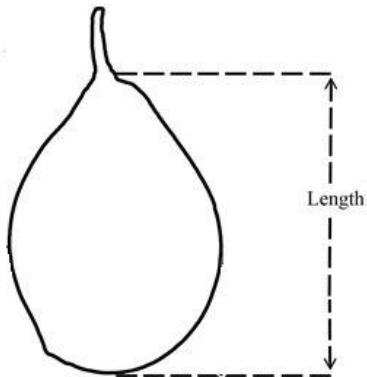
Short
elliptical



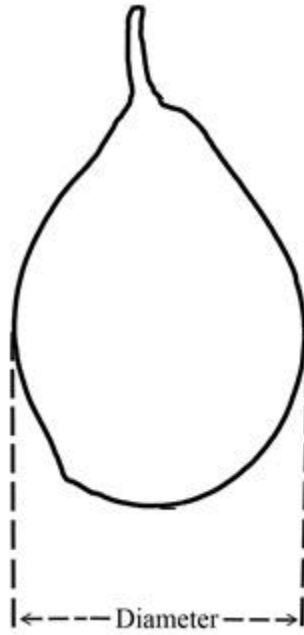
7

Long
elliptical

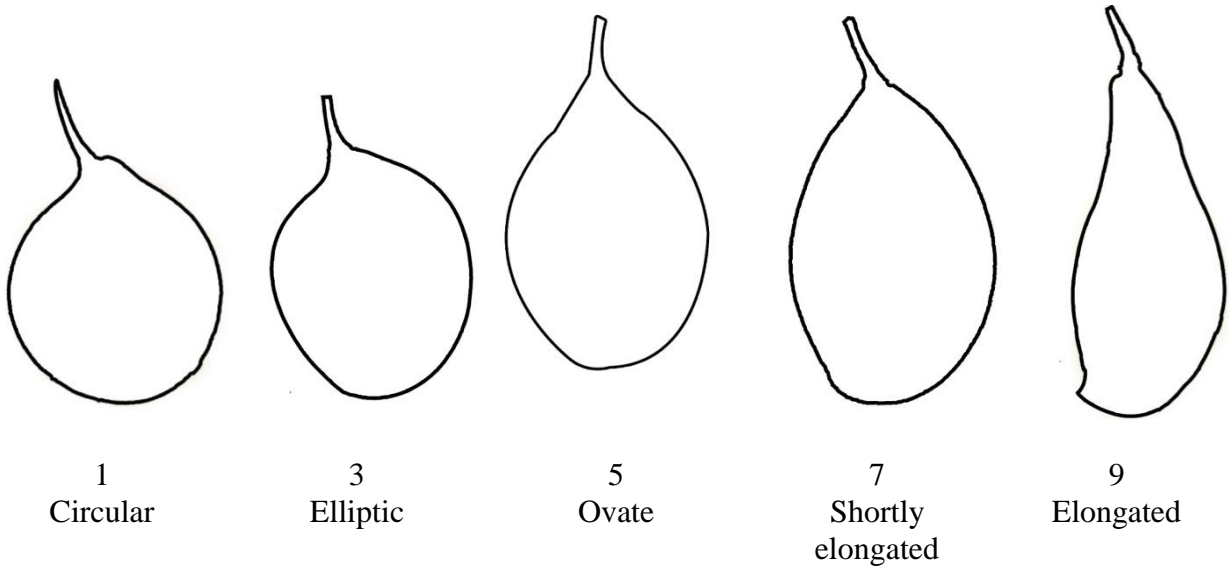
Characteristic 14 : Fruit length



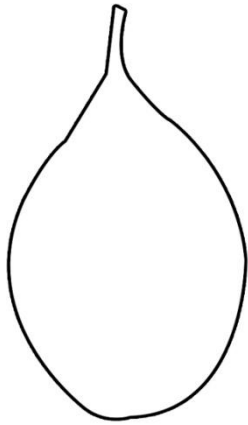
Characteristic 15: Fruit diameter



Characteristic 16: Shape of fruit

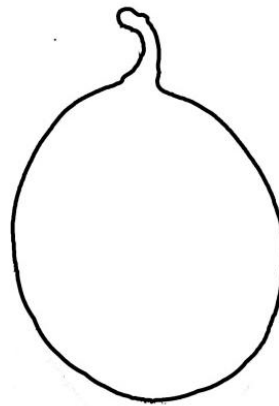


Characteristic 17: Presence of neck



1

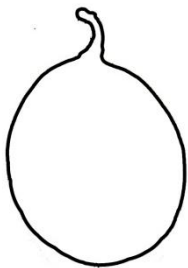
Present



9

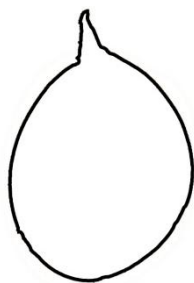
Absent

Characteristic 18: Shape at ventral shoulder



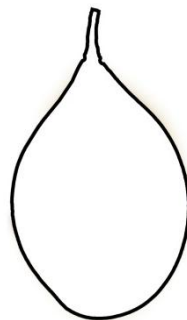
1

Rounded upward



3

Rounded downward



5

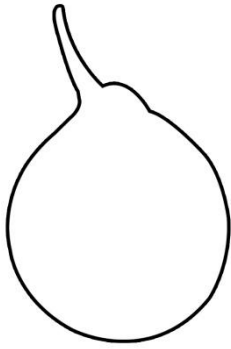
Sloping downward



7

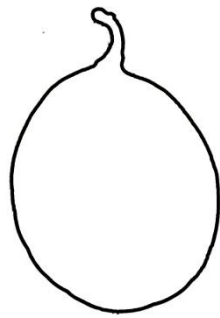
Falling abruptly

Characteristic 19: Shape at dorsal shoulder



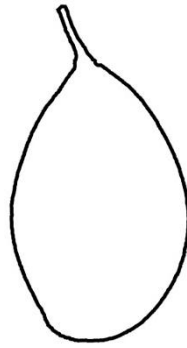
1

Rounded upward



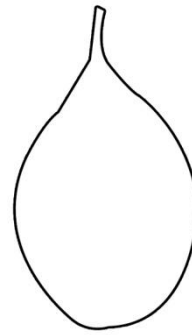
3

Rounded outward



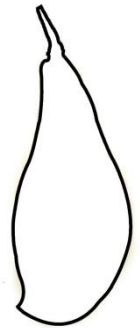
5

Rounded downward



7

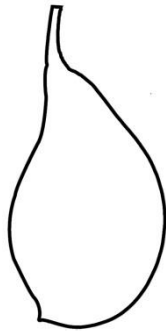
Slopping
downward



9

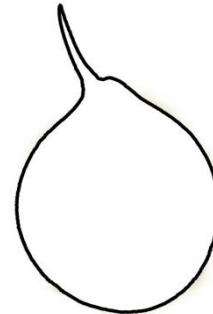
Falling
abruptly

Characteristic 20: Presence of Styler scar



1

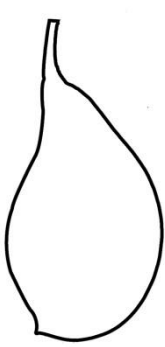
Present



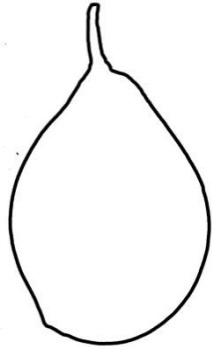
9

Absent

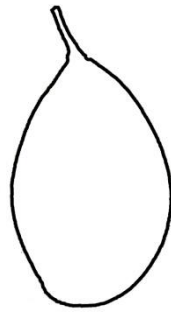
Characteristic 21: Shape of Styler scar



1
Pointed



3
Rounded



5
Blunt



7
Beak

Characteristic 23: Mace covering pattern



1
Partial reticulate

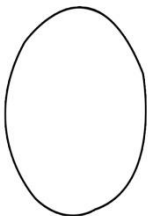


3
Entire reticulate



5
Compact

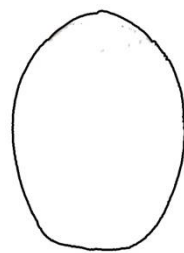
Characteristic 25: Seed shape



1
Round



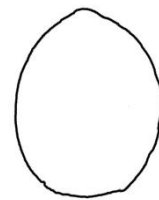
3
Ovate



5
Obovate



7
Elliptic



9
trapezoid

IX) Working group details:

The test guidelines developed by Department of Horticulture, Dr. B.S. Konkan Krishi Vidyapeeth, Dapoli and Task Force (08/2015) constituted by the PPV & FR Authority, New Delhi.

The members of the Task Force

Dr. K.E. Lawande (Chairman)

Dr. P.M. Haldankar

Dr. J. Rema

Dr. Madhukar Bachulkar

Dr. Ravi Prakash (Member Secretary)

Nodal Person

Dr. P.M. Haldankar, Head, Deptt. Of Horticulture, College of Agriculture, Dapoli, Dr. B.S.K.K.V., Dapoli, Ratnagiri- 415 712 (M.S.)

Co-Nodal Person

Dr. V.V. Dalvi, Scintiest-II, AICRP on Agroforestry and Associate Professor, Deptt. Of Agril. Botany, College of Agriculture, Dapoli, Dr.B.S.K.K.V., Dapoli, Ratnagiri- 415 712 (M.S.)

Junior Research Fellow

1. Shri. P.P. Gogate, Junior Research Fellow, PPV & FRA Project on Nutmeg, Deptt. Of Horticulture, College of Agriculture, Dapoli, Dr. B.S.K.K.V., Dapoli, Ratnagiri- 415 712 (M.S.)
2. Shri. N.K. Mhatre, Junior Research Fellow, PPV & FRA Project on Nutmeg, Deptt. Of Horticulture, College of Agriculture, Dapoli, Dr. B.S.K.K.V., Dapoli, Ratnagiri- 415 712 (M.S.)

X. DUS Testing Centres

Nodal Centre	Other Centre
Dr. B.S. Konkan Krishi Vidyapeeth, Dapoli. Dist- Ratnagiri- 415 712 (M.S.).	<ol style="list-style-type: none">1. Indian Institute of Spices Research, Marikunnu, P.O. Calicut- 673012, Kerala2. Central Coastal Agricultural Research Institute, Goa.

PUBLIC NOTICE

Details of registration certificate for inviting claims of benefit sharing under sub section 1 of section 26 of PPV&FR Act, 2001 read with rule 40 of PPV&FR Rules, 2003.

The details of registration certificates which have been issued under section 24 (2) of PPV &FR Act, 2001 are published herein for invitation of claims for benefit sharing.

Any person or group of persons, being citizen(s) of India or firm or governmental or non-governmental organization formed or established in India shall submit their claims for benefit sharing (under Section 26 (2) of PPV&FR Act, 2001 read with Rule 41 of PPV&FR Rules, 2003) in Form PV 7 of the First schedule (in triplicate) within a period of six months from the date of publication. Claims for benefit sharing if any shall be submitted to the Registrar, PPV&FR Authority, NASC Complex, DPS Marg, New Delhi-110012 accompanied with the fee of Rs. 5000/- (Rupees Five Thousand Only) by way of Demand Draft drawn in favour of the “Registrar, PPV&FR Authority” payable at New Delhi.

Certificate of Registration No. 1 of 2015

- (1) Registration Number and date of grant:- **1 of 2015 & 1/2/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Hadu Dalabehera and others, At- Kolatathigaon,
Block- Rangeilunda, Dist- Ganjam, Orissa**
- (3) Denomination of the variety:- **G-Padma**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Farmer /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
NA
- (6) Details of the distinguishing features or the characteristics:-
Panicle: Awns: Present, Endosperm: Content of amylase is Low
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 2 of 2015

- (1) Registration Number and date of grant:- **2 of 2015 & 1/2/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Chaturbhujia Agrawal, At-Ghasian, BlockPatnagarh,
Dist- Balangir, State-Odisha**
- (3) Denomination of the variety:- **Balangir-Ghasian-Kalakrushna**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Farmer /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
NA
- (6) Details of the distinguishing features or the characteristics:-
Lemma Anthocyanin colouration of apex is Very Strong, Spikelet Colour of tip of lemma Black, Sterile lemma Colour Purple, Decorticated grain Aroma is Present.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**

(9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**

(10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 3 of 2015

(1) Registration Number and date of grant:- **3 of 2015 & 1/2/2015**

(2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-

**Gadua Kota, At- Jamguda, Block- Pottangi,
Dist- Koraput, State-Odisha**

(3) Denomination of the variety:- **Haladi Sapuru**

(4) Name of:

Family: **Poaceae**
Genus & Species: **Oryza sativa L.**
Variety and common name: **Farmer /Typical /Rice**

(5) Parentage and geographical location of the variety:-

NA

(6) Details of the distinguishing features or the characteristics:-

Panicle Awns Absent, Decorticated grain Colour Red.

(7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**

(8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**

(9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**

(10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 4 of 2015

(1) Registration Number and date of grant:- **4 of 2015 & 1/2/2015**

(2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-

**Hari Nayak and others At- Banamaliput, Block-Lamaput,
Dist- Koraput, State-Odisha**

(3) Denomination of the variety:- **Padmabati**

(4) Name of:

Family: **Poaceae**
Genus & Species: **Oryza sativa L.**
Variety and common name: **Farmer /Typical /Rice**

(5) Parentage and geographical location of the variety:-

NA

(6) Details of the distinguishing features or the characteristics:-

Leaf: Colour of ligule Purple, Spikelet Density of pubescence of lemma is Strong, Stem: Anthocyanin colouration of nodes is Present, Flag leaf Attitude of blade Erect, Decorticated grain Colour is Red.

(7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**

- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 5 of 2015

- (1) Registration Number and date of grant:- **5 of 2015 & 1/2/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Madhab Nag and others, At- Khairbhadi,
Block- Khariar, Dist- Nuapada, State-Odisha**
- (3) Denomination of the variety:- **Mirchamati**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Farmer /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
NA
- (6) Details of the distinguishing features or the characteristics:-
**Basal leaf Sheath colour Green, Leaf Shape of ligule Acute, Lemma Anthocyanin colouration of apex
Medium, Decorticated grain Length is Medium.**
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 6 of 2015

- (1) Registration Number and date of grant:- **6 of 2015 & 1/2/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Baidyanath Godobisi and others, At- Singari, Block- K-Singhpur,
Dist- Raigada, State-Odisha**
- (3) Denomination of the variety:- **Paradhan**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Farmer /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
NA
- (6) Details of the distinguishing features or the characteristics:-

Basal leaf Sheath colour Green, Flag leaf Attitude of blade (early observation) Erect, Decorticated grain Length Medium, Decorticated grain: Width Broad, Endosperm Content of amylase is Low.

- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 7 of 2015

- (1) Registration Number and date of grant:- **7 of 2015 & 1/2/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Jayakrushna Bhoi R/o-Baraghati, Block-Deogaon,
Dist- Balangir, State-Odisha.**
- (3) Denomination of the variety:- **Balangir-Barghati-Mahipal**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Farmer /Typical /Rice**

- (5) Parentage and geographical location of the variety:-
NA
- (6) Details of the distinguishing features or the characteristics:-
Panicle Length of main axis Long, Decorticated grain width is Medium.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 8 of 2015

- (1) Registration Number and date of grant:- **8 of 2015 & 1/6/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**University of Agricultural Sciences,
Krishi Nagar, Dharwad-580005, Karnataka**
- (3) Denomination of the variety:- **Sahana (JK-276-8-2)**
- (4) Name of:
Family: **Malvaceae**
Genus & Species: **Gossypium hirsutum L..**
Variety and common name: **Extant /Typical / Tetraploid Cotton**

(5) Parentage and geographical location of the variety:-

JK-97 x JK-44

(6) Details of the distinguishing features or the characteristics:-

Medium leaf hairiness, present leaf nectaries, medium plant stem hairiness, cream flower petal colour, absent flower petal spot, smooth boll surface, pointed boll prominence of tip, medium boll weight of seed cotton/boll, medium seed index, very high ginning % and white fibre colour.

(7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**

(8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**

(9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**

(10) If the variety is sold or otherwise disposed of, details thereof. **Variety commercialized since 02/02/2001.**

Certificate of Registration No. 9 of 2015

(1) Registration Number and date of grant:- **9 of 2015 & 1/6/2015**

(2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-

**Indian Council of Agricultural Research (ICAR),
Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi-110014**

(3) Denomination of the variety:- **MAUS 158**

(4) Name of:

Family: **Fabaceae**
Genus & Species: **Glycine max (L.) Merrill.**
Variety and common name: **Extant/Typical / Soybean**

(5) Parentage and geographical location of the variety:-

PB1 x DS-87-14

(6) Details of the distinguishing features or the characteristics:-

Present hypocotyl anthocyanin pigmentation, pointed ovate leaf shape, medium plant days to maturity, medium seed size, yellow seed cotyledon colour, medium seed oil content and high seed protein content.

(7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**

(8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**

(9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**

(10) If the variety is sold or otherwise disposed of, details thereof. **Variety commercialized since 08/31/2010**

Certificate of Registration No. 10 of 2015

- (1) Registration Number and date of grant:- **10 of 2015 & 1/6/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Indian Council of Agricultural Research (ICAR),
Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi-110014**
- (3) Denomination of the variety:- **Pratikar (MAUS-61)**
- (4) Name of:
Family: **Fabaceae**
Genus & Species: **Glycine max (L.) Merrill.**
Variety and common name: **Extant/Typical / Soybean**
- (5) Parentage and geographical location of the variety:-
JS-71-1 x PK-73-94
- (6) Details of the distinguishing features or the characteristics:-
Present pod pubescence, grey pod pubescence colour and brown seed hilum colour.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **Variety commercialized since 09/04/2002**

Certificate of Registration No. 11 of 2015

- (1) Registration Number and date of grant:- **11 of 2015 & 1/6/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Metahelix Life Sciences Limited, Plot No.3, KIADB 4th Phase, Bommasandra,
Bangalore-560099**
- (3) Denomination of the variety:- **MP-7792 (MH-1609)**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Pennisetum glaucum (L.) R.Br..**
Variety and common name: **Extant /Hybrid / Pearl Millet**
- (5) Parentage and geographical location of the variety:-
M 001 A x M 004R
- (6) Details of the distinguishing features or the characteristics:-
Present plant anthocyanin colouration of first leaf sheath, medium time of spike emergence, very long leaf blade length, purple plant node pigmentation, cylindrical spike shape, low plant number of productive tillers, medium plant height, absent spike tip sterility, compact spike density and very bold seed weight of 1000 grains.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**

- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **Variety commercialized since 07/26/2012**

Certificate of Registration No. 12 of 2015

- (1) Registration Number and date of grant:- **12 of 2015 & 1/7/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Indian Council of Agricultural Research (ICAR),
Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi-110014**
- (3) Denomination of the variety:- **Pusa 9712 (DS 9712)**
- (4) Name of:
Family: **Fabaceae**
Genus & Species: **Glycine max (L.) Merrill**
Variety and common name: **Extant/Typical / Soybean**
- (5) Parentage and geographical location of the variety:-
Mutant of 05-74
- (6) Details of the distinguishing features or the characteristics:-
**Absent hypocotyl anthocyanin pigmentation, late plant days to 50% flowering, white flower colour,
medium seed size and black seed hilum colour.**
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **Variety commercialized since 11/05/2005**

Certificate of Registration No. 13 of 2015

- (1) Registration Number and date of grant:- **13 of 2015 & 1/7/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Metahelix Life Sciences Limited, Plot No.3, KIADB 4th Phase,
Bommasandra, Bangalore-560099**
- (3) Denomination of the variety:- **MP-7872 (MH-1610)**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Pennisetum glaucum (L.) R.Br.**
Variety and common name: **Extant /Hybrid / Pearl Millet**
- (5) Parentage and geographical location of the variety:-
M 002A x M004R

- (6) Details of the distinguishing features or the characteristics:-
present plant anthocyanin coloration of first leaf sheath, late time of spike emergence, very long leaf blade length, purple plant node pigmentation, spindle spike shape, low plant number of productive tillers, short plant height, present spike tip sterility, very compact spike density and bold seed weight of 1000 grains.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **Variety commercialized since 07/26/2012**

Certificate of Registration No. 14 of 2015

- (1) Registration Number and date of grant:- **14 of 2015 & 1/8/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Tamil Nadu Agriculture University,
Coimbatore-641003, Tamil Nadu**
- (3) Denomination of the variety:- **CO (R) 50 (IET 19321) (CB01001)**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L.**
Variety and common name: **Extant /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
Co43/ ADT 38
- (6) Details of the distinguishing features or the characteristics:-
Present panicle awns, tip only panicle distribution of awns and well exerted panicle exertion.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **Variety commercialized since 08/27/2009**

Certificate of Registration No. 15 of 2015

- (1) Registration Number and date of grant:- **15 of 2015 & 1/8/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Indian Council of Agricultural Research (ICAR),
Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi-110014**
- (3) Denomination of the variety:- **MAUS-81**

- (4) Name of:
Family: **Fabaceae**
Genus & Species: **Glycine max (L.) Merrill.**
Variety and common name: **Extant/Typical / Soybean**
- (5) Parentage and geographical location of the variety:-
KB-74 x JS 335
- (6) Details of the distinguishing features or the characteristics:-
Absent pod pubescence, medium plant days to maturity and black seed hilum colour.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **Variety commercialized since 02/04/2004**

Certificate of Registration No. 16 of 2015

- (1) Registration Number and date of grant:- **16 of 2015 & 1/8/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Tamil Nadu Agriculture University,
Coimbatore-641003, Tamil Nadu**
- (3) Denomination of the variety:- **CO (R) 49**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Extant /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
C 20 x RNR 52147
- (6) Details of the distinguishing features or the characteristics:-
Medium time of heading, very short stem length, well exerted panicle exertion and drooping panicle curvature of main axis.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **Variety commercialized since 08/31/2010**

Certificate of Registration No. 17 of 2015

- (1) Registration Number and date of grant:- **17 of 2015 & 1/8/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Mahatma phule krishi vidyapeeth,
Rahuri-413722, Dist-Ahmednagar (MS)**
- (3) Denomination of the variety:- **Godavari (NIDW-295)**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Triticum durum L..**
Variety and common name: **Extant/ Typical / Durum wheat**
- (5) Parentage and geographical location of the variety:-
Boomer 33/ Plata 8
- (6) Details of the distinguishing features or the characteristics:-
Erect plant growth habit, semi erect plant flag leaf attitude, dull white awn colour, strong ear waxiness, tapering ear shape in profile, elliptical grain shape and hard grain hardness.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **Variety commercialized since 02/06/2007**

Certificate of Registration No. 18 of 2015

- (1) Registration Number and date of grant:- **18 of 2015 & 1/8/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Sri Baleswar Mallick , At- Rapadabadi,
Block- Daringbadi, Dist-Kandhamal, State-Odisha**
- (3) Denomination of the variety:- **BUDANGA**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Farmer /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
NA
- (6) Details of the distinguishing features or the characteristics:-
Leaf anthocyanin colouration of auricles is colourless and Lemma anthocyanin colouration of apex is very strong and Spikelet colour of stigma is purple and Stem anthocyanin colouration of nodes is absent.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**

- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 19 of 2015

- (1) Registration Number and date of grant:- **19 of 2015 & 1/8/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Madhusudan Pradhan, At-Nahudimaha,
Block-Raikia, Dist-Kandhamal, State-Odisha**
- (3) Denomination of the variety:- **KUNDA DHAN**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L.**
Variety and common name: **Farmer /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
NA
- (6) Details of the distinguishing features or the characteristics:-
Strong lemma anthocyanin colouration of apex, spikelet colour of stigma is purple.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 20 of 2015

- (1) Registration Number and date of grant:- **20 of 2015 & 1/8/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Surendra Keshari Ray and others, R/o Bainsipur,
Block- Binjharpur, Dist- Jajpur, State-Odisha**
- (3) Denomination of the variety:- **DHOSARA**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L.**
Variety and common name: **Farmer /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
NA
- (6) Details of the distinguishing features or the characteristics:-
Purple leaf ligule, strong anthocyanin colour at lemma apex, purple stigma, purple lemma tip and panicle awns absent.

- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 21 of 2015

- (1) Registration Number and date of grant:- **21 of 2015 & 1/8/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Smt. Bhaleria Barla and others, R/o Jhagarpur,
Block- Rajgangpur, Dist- Sundargarh, State-Odisha**
- (3) Denomination of the variety:- **SAL JHANTI**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Farmer /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
NA
- (6) Details of the distinguishing features or the characteristics:-
Flag leaf attitude of blade (late observation) is semi-erect, straw colour of sterile lemma and red decorticated grains.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 22 of 2015

- (1) Registration Number and date of grant:- **22 of 2015 & 1/8/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Mahendra Mohalik, At-Baligaon, Block- Chandabali, Dist-
Bhadrak, State-Odisha**
- (3) Denomination of the variety:- **MUTHISAMULI**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Farmer /Typical /Rice**

- (5) Parentage and geographical location of the variety:-
NA
- (6) Details of the distinguishing features or the characteristics:-
Purple colour of leaf auricles, attitude of flag leaf blade (late observation) is Semi-erect, curvature of panicle main axis is straight, attitude of panicle branches is erect to semi-erect and red decorticated grains.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 23 of 2015

- (1) Registration Number and date of grant:- **23 of 2015 & 1/8/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Abhi Khilo, At- Kandhaguda, BlockKhairput,
Dist-Malkangiri, State-Odisha**
- (3) Denomination of the variety:- **Sunamani**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Farmer /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
NA
- (6) Details of the distinguishing features or the characteristics:-
Spikelet: Density of pubescence of lemma: Strong, Panicle: Awns: Present.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 24 of 2015

- (1) Registration Number and date of grant:- **24 of 2015 & 1/8/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Sarat Gouda, At- Kerikerjhola, BlockSheregoda,
Dist-Ganjam, State-Odisha**
- (3) Denomination of the variety:- **Kataki Tampa**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Farmer /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
NA
- (6) Details of the distinguishing features or the characteristics:-
Lemma: Anthocyanin colouration of apex: Medium, Endosperm: Content of amylase: Low.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 25 of 2015

- (1) Registration Number and date of grant:- **25 of 2015 & 1/8/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Radhe Shyam Majhi and others, At-Bamankera,
Block- Nuapada, Dist- Nuapada, State-Odisha.**
- (3) Denomination of the variety:- **BITI SAPRI**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Farmer /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
NA
- (6) Details of the distinguishing features or the characteristics:-
**Leaf: Pubescence of blade surface: Strong, Leaf: Auricles: absent, Leaf: Shape of ligule: Truncate,
Panicle: Awns: Absent.**
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**

(9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**

(10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 26 of 2015

(1) Registration Number and date of grant:- **26 of 2015 & 1/8/2015**

(2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-

**Bhima Madkami, At- Telerai, Block-Kalimela,
Dist- Malkangiri, State-Odisha.**

(3) Denomination of the variety:- **Sikla**

(4) Name of:

Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Farmer /Typical /Rice**

(5) Parentage and geographical location of the variety:-

NA

(6) Details of the distinguishing features or the characteristics:-

**Panicle: Length of main axis: Long, Flag leaf: Attitude of blade (late observation): Horizontal,
Decorticated grain: Width: Broad.**

(7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**

(8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**

(9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**

(10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 27 of 2015

(1) Registration Number and date of grant:- **27 of 2015 & 1/8/2015**

(2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-

**Goura Chandra Pradhan and others, At- Tarbord, Block-
Komna, Dist- Nuapada, State-Odisha**

(3) Denomination of the variety:- **Nuapada-Tarbod-SETKA**

(4) Name of:

Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Farmer /Typical /Rice**

(5) Parentage and geographical location of the variety:-

NA

(6) Details of the distinguishing features or the characteristics:-

Basal leaf: Sheath colour: Green, Leaf: Anthocyanin colouration of auricles: Light purple, Lemma: Anthocyanin colouration of apex: Medium, Endosperm: Content of amylose: Low.

- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 28 of 2015

- (1) Registration Number and date of grant:- **28 of 2015 & 1/19/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Indian Council of Agricultural Research (ICAR),
Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi-110014**
- (3) Denomination of the variety:- **UPMC 503**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Sorghum bicolor (L.) Moench.**
Variety and common name: **Extant (VCK)/Typical / Sorghum**
- (5) Parentage and geographical location of the variety:-
SDSL 92140-MCT-36-93 (Selection from Zimbabwe germplasm line)
- (6) Details of the distinguishing features or the characteristics:-
Grayed Orange Caryopsis color after threshing.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 29 of 2015

- (1) Registration Number and date of grant:- **29 of 2015 & 1/19/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Maharashtra Hybrid Seeds Company Limited, Resham Bhavan, 4th Floor,
78, Veer Nariman Road, Mumbai-400020, Maharashtra.**
- (3) Denomination of the variety:- **SF 4048**
- (4) Name of:
Family: **Asteraceae**

Genus & Species: **Helianthus annuus L.**
Variety and common name: **New / Other (Inbred Parent Line) / Sunflower**

- (5) Parentage and geographical location of the variety:-
36 B x HA 335 B
- (6) Details of the distinguishing features or the characteristics:-
Coarse leaf serration.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 30 of 2015

- (1) Registration Number and date of grant:- **30 of 2015 & 1/19/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Nirmal Seeds Private Ltd. P.O. Box-63, Bhadgaon Road,
Pachora-424201, Dist: Jalgaon**
- (3) Denomination of the variety:- **Nirmal-150 (NPH-150)**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **New /Hybrid /Rice**
- (5) Parentage and geographical location of the variety:-
IR 58025A x NPR-37
- (6) Details of the distinguishing features or the characteristics:-
Present of aroma in decorticated grain.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 31 of 2015

- (1) Registration Number and date of grant:- **31 of 2015 & 1/19/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
J.K. Agri Genetics Limited, 1-10-177, 4th Floor, Varun Towers, Begumpet, Hyderabad-500016, A.P.
- (3) Denomination of the variety:- **JKBH 778**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Pennisetum glaucum (L.) R.Br.**
Variety and common name: **New/Hybrid/Pearl Millet**
- (5) Parentage and geographical location of the variety:-
JKMS 405A x JKR 11568
- (6) Details of the distinguishing features or the characteristics:-
Yellow spike anther colour and grey seed colour.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 32 of 2015

- (1) Registration Number and date of grant:- **32 of 2015 & 1/19/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
Vibha Agrotech Limited, 501, Suhan Sirisampada, Raj Bhavan Road, Somajiguda, Hyderabad-500082, A.P.
- (3) Denomination of the variety:- **AKASH (VBBH 350)**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Pennisetum glaucum (L.) R.Br.**
Variety and common name: **Extant (VCK)/Hybrid/Pearl Millet**
- (5) Parentage and geographical location of the variety:-
VBBA 310028 x VBBR 330612
- (6) Details of the distinguishing features or the characteristics:-
Presence of plant node pubescence and hexagonal seed shape.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**

(9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**

(10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 33 of 2015

(1) Registration Number and date of grant:- **33 of 2015 & 1/19/2015**

(2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-

**Kaveri Seed Company Limited, #513-B, 5th Floor, Minerva
Complex, SD Road, Secunderabad-500003, A.P.**

(3) Denomination of the variety:- **KSR 6192**

(4) Name of:

Family: **Poaceae**
Genus & Species: **Sorghum bicolor (L.) Moench**
Variety and common name: **New/Typical / Sorghum**

(5) Parentage and geographical location of the variety:-

KSR 6192 male fertile

(6) Details of the distinguishing features or the characteristics:-

Grayed purple leaf sheath anthocyanin colouration.

(7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**

(8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**

(9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**

(10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 34 of 2015

(1) Registration Number and date of grant:- **34 of 2015 & 1/19/2015**

(2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-

**Signet Crop Sciences India (P) Ltd. 522, 1st floor,
New grain Market, Karnal-132001**

(3) Denomination of the variety:- **SIGNET-44**

(4) Name of:

Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **New/Typical /Rice**

(5) Parentage and geographical location of the variety:-

Individual plant selection from Pant Dhan 19.

(6) Details of the distinguishing features or the characteristics:-

Present panicle awns.

- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 35 of 2015

- (1) Registration Number and date of grant:- **35 of 2015 & 1/19/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Signet Crop Sciences India (P) Ltd. 522, 1st floor,
New grain Market, Karnal-132001**
- (3) Denomination of the variety:- **SIGNET-5051**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **New/Typical /Rice**
- (5) Parentage and geographical location of the variety:-
0079000 A x 0079191 R
- (6) Details of the distinguishing features or the characteristics:-
Long decorticated grain length.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 36 of 2015

- (1) Registration Number and date of grant:- **36 of 2015 & 1/20/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Nirmal Seeds Private Ltd. P.O. Box-63, Bhadgaon Road,
Pachora-424201, Dist: Jalgaon**
- (3) Denomination of the variety:- **Suvarna (NSRR-259)**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Sorghum bicolor (L.) Moench**
Variety and common name: **New /Typical / Sorghum**

- (5) Parentage and geographical location of the variety:-
NSRR-662 x NSRR 629
- (6) Details of the distinguishing features or the characteristics:-
Presence of flag leaf yellow coloration of midrib.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 37 of 2015

- (1) Registration Number and date of grant:- **37 of 2015 & 1/20/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
Nuziveedu Seeds Limited, Survey No. 69, Gundlapochampally (Vill. & Panchayat), Medchal-Mandal, Rangareddy- Dist, AP-501401
- (3) Denomination of the variety:- **NP-208**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L.**
Variety and common name: **New/Typical /Rice**
- (5) Parentage and geographical location of the variety:-
NPGP-4285 and PRN48
- (6) Details of the distinguishing features or the characteristics:-
White spikelet colour of tip of lemma.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 38 of 2015

- (1) Registration Number and date of grant:- **38 of 2015 & 1/20/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
Devgen NV, Technologiepark 30, B-9052 Zwijnaarde, Belgium
- (3) Denomination of the variety:- **MIJ-010**
- (4) Name of:

Family: **Poaceae**
Genus & Species: **Sorghum bicolor (L.) Moench**
Variety and common name: **New/Typical / Sorghum**

- (5) Parentage and geographical location of the variety:-
MLSR 927 x MLSR 1172
- (6) Details of the distinguishing features or the characteristics:-
Medium plant total height.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 39 of 2015

- (1) Registration Number and date of grant:- **39 of 2015 & 1/21/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Nirmal Seeds Private Ltd. P.O. Box-63, Bhadgaon Road,
Pachora-424201, Dist: Jalgaon**
- (3) Denomination of the variety:- **NB-3 (Madhumati)**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L.**
Variety and common name: **New /Typical /Rice**
- (5) Parentage and geographical location of the variety:-
Acc. 114 x Acc-87
- (6) Details of the distinguishing features or the characteristics:-
Height purple basal leaf sheath colour and extra long slender decorticated grain shape.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 40 of 2015

- (1) Registration Number and date of grant:- **40 of 2015 & 1/21/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Indian Council of Agricultural Research (ICAR),
Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi-110014**
- (3) Denomination of the variety:- **AKMS 14B**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Sorghum bicolor (L.) Moench.**
Variety and common name: **Extant (VCK) /Typical Sorghum**
- (5) Parentage and geographical location of the variety:-
(MR 760 x BT 632) x AKMS 2B
- (6) Details of the distinguishing features or the characteristics:-
Lustrous grain lusture.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 41 of 2015

- (1) Registration Number and date of grant:- **41 of 2015 & 1/22/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Indian Council of Agricultural Research (ICAR),
Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi-110014**
- (3) Denomination of the variety:- **Bajaura Makka 1**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Zea mays L.**
Variety and common name: **New /Typical / Maize**
- (5) Parentage and geographical location of the variety:-
CHH 71/ JH 3748/ AH 807/ Girija/ Chamba local / salooni local.
- (6) Details of the distinguishing features or the characteristics:-
Long plant length, semi-flint grain type, yellow colour of top of grain and height purple anthocyanin colouration of glume of cob.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**

- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 42 of 2015

- (1) Registration Number and date of grant:- **42 of 2015 & 1/27/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
M/S Shakti Vardhak Hybris Seeds Pvt. Ltd., Tilak Bazar, Hisar-125001 (Haryana)
- (3) Denomination of the variety:- **Parasmani-2**
- (4) Name of:
Family: **Brassica**
Genus & Species: **Brassica juncea L. Czern & Coss.**
Variety and common name: **Extant (VCK) /Typical / Indian Mustard**
- (5) Parentage and geographical location of the variety:-
SVGP-06 x RH-30
- (6) Details of the distinguishing features or the characteristics:-
Very tall plant height and medium siliqua length.
- (7) In case of ‘essentially derived variety’, the details of the ‘initial variety’ from which the ‘essentially derived variety’ is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 43 of 2015

- (1) Registration Number and date of grant:- **43 of 2015 & 1/28/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
Devgen NV, Technologiepark 30, B-9052 Zwijnarde, Belgium
- (3) Denomination of the variety:- **DGJ-014**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Sorghum bicolor (L.) Moench**
Variety and common name: **New/Hybrid/ Sorghum**
- (5) Parentage and geographical location of the variety:-
MLSA 848 x R 400
- (6) Details of the distinguishing features or the characteristics:-

Absence of stigma yellow colouration.

- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 44 of 2015

- (1) Registration Number and date of grant:- **44 of 2015 & 1/28/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
Devgen NV, Technologiepark 30, B-9052 Zwijnarde, Belgium
- (3) Denomination of the variety:- **MIHR-001**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**
Variety and common name: **Extant (VCK) /Hybrid /Rice**
- (5) Parentage and geographical location of the variety:-
PMSL 32A x PMSL 5032
- (6) Details of the distinguishing features or the characteristics:-
Semi erect flag leaf attitude of blade and long Panicle length of main axis.
- (7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**
- (8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**
- (9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**
- (10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Certificate of Registration No. 45 of 2015

- (1) Registration Number and date of grant:- **45 of 2015 & 1/28/2015**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-
**Nirmal Seeds Private Ltd. P.O. Box-63, Bhadgaon Road,
Pachora-424201, Dist: Jalgaon.**
- (3) Denomination of the variety:- **Nirmal-101 (NPH-101)**
- (4) Name of:
Family: **Poaceae**
Genus & Species: **Oryza sativa L..**

Variety and common name: **New/Typical /Rice**

(5) Parentage and geographical location of the variety:-

IR 58025A x NPR-36

(6) Details of the distinguishing features or the characteristics:-

Medium spikelet density of pubescence of lemma and long decorticated grains.

(7) In case of 'essentially derived variety', the details of the 'initial variety' from which the 'essentially derived variety' is claimed to have been derived:- **NA**

(8) Name and address of the contributor, nature and amount of the contribution or the community knowledge used in the development of the plant variety:- **NA**

(9) Terms and conditions of the agreement, if any, entered into between the breeder and contributor:- **NA**

(10) If the variety is sold or otherwise disposed of, details thereof. **NA**

Jamun (*Syzygium cuminii* Skeels)

I. Subject

These test guidelines shall apply to all varieties and hybrids of **Jamun** (*Syzygium cuminii* Skeels)

II. Planting Material required

1. The Protection of Plant Varieties and Farmers' Rights Authority (PPV & FRA) shall decide on the quantity and quality of the planting material(s) required for testing the variety and when and where it is to be delivered for registration under the Protection of Plant Varieties and Farmers' Rights (PPV & FRA) Act, 2001.
2. Applicants submitting such planting material(s) 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.
3. The minimum number of planting material to be supplied by the applicant 07 grafts for each location.
4. The planting materials supplied shall be healthy, not lacking in vigour or nutrition as well as free from pests or diseases or any mechanical damage.
5. The plant material should not have undergone any treatment, which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.
6. The age of the plant(s) shall be minimum nine months from the date of grafting (propagated through softwood grafting or veneer grafting) on the *S. cuminii* Skeels rootstock and raised in the polythene bags.

III. Conduct of tests

1. The minimum duration of the DUS tests shall normally be at least two similar fruiting seasons in different years.
2. The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the germplasm/ variety to conduct the examination. In particular, it is essential that the trees produce a satisfactory crop of fruit in each of the two growing seasons.
3. The minimum duration of the tests shall normally be at least two independent

similar fruiting seasons in different years. Tests shall be conducted at least at two places or on site testing. If any essential characteristic of the candidate variety are not expressed for visual observation at these locations, the variety shall be considered for further examination at another appropriate test site or under special test protocol on expressed request by the applicant, for which additional quantity of planting material shall be required.

4. Test design

The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle. The addition test protocol for special purpose if any may be established by PPV & FRA. As a minimum, each test shall include five plants per location, planted at DUS test centre, with a spacing of 5 m x 5 m.

5. On-site DUS testing

The applicant or his/her nominee on his/her behalf shall submit a request to the Authority for conducting a reliable trial according to Test Guidelines and the instructions from Authority before on-site examination of the candidate variety.

The applicant or his/her nominee shall submit a request to the Authority for on-site examination prior to start of growing cycle as mentioned in Test Guidelines for site examination of the candidate variety. On-site testing may be conducted at the places specified by the applicant. The age of the trees at on-site shall be minimum 5 years. As a minimum, 5 plants planted in uniform spacing, should be available for inspection and examination for 'on site' DUS testing. The trees must be healthy and free from pest & disease and raised under standard and uniform management practices. For farmer's variety or landraces, the authority may notify suitable guidelines on the number of plant(s) and season(s), if any.

On-site examination shall be arranged during the fruiting season, when distinguishing characteristics of candidate variety can most easily be seen. The characteristics of the candidate variety can be examined and compared with those of the comparative varieties as per the Test guidelines.

The Expert Committee constituted by the PPV & FRA in consultation with the DUS Centre shall be authorized to inspect on-site testing and recording of the appropriate

characters. Applicant shall supply the Expert Committee with summary of distinct characteristics supported by photographs. The Expert Committee shall take notes and observations on distinctness and shall confirm preliminary data and/or summary of distinctness from applicant.

The Expert Committee shall submit examination report to the Authority.

IV. Methods and observations

The characteristics described in the Table of characteristics (see section VII) table shall be used for the testing varieties and hybrid for their DUS.

1. For the assessment of Distinctiveness and Stability observation shall be made on 5 plants or parts taken from each of 5 plants. In the case of parts of plants, the number to be taken from each of the plants should be 2.
2. Mature leaves in the middle third of the youngest shoots not showing signs of active growth should be selected for the observations on the leaf.
3. Observations on the mature fruit should be recorded when fruit is ready for harvesting.

V. Grouping of varieties

1. The candidate varieties for DUS testing shall be divided into groups to facilitate the assessment of Distinctiveness. Characteristics, which are known from experience not to vary, or to vary only slightly within a variety and which in their various states are fairly evenly distributed across all varieties in the collection are suitable for grouping purpose.
2. The following characteristics are recommended for grouping of varieties
 - i. Growth habit (Characteristic 1)
 - ii. Leaf Apex (Characteristic 5)
 - iii. Leaf Base (Characteristic 6)
 - iv. Mature fruit: Shape (Characteristic 14)
 - v. Mature fruit: base stalk end (Characteristic 16)
 - vi. Pulp: Seed ratio (Characteristic 26)

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 given for each state of expression of characters for different characteristics for the purpose of electronic data processing.

3. **Legend**

(a) Characteristics with plus (*) sign: The observations that shall be observed during every growing season on all varieties and shall always be included in the description of the variety, except when the state of expression of any of these characters are rendered impossible by preceding phenological characteristics or by the environmental conditions of the testing region, under such exceptional situation, adequate explanation shall be provided.

(b) Characteristics with plus (+) sign: See Explanation on the Table of characteristics in Section VIII. It is to be noted that for certain characteristics, the plant parts on which observations are to be taken are given in the explanation or figure(s) for clarity and not the colour variation.

4. Type of assessment of characteristics indicated in column seven of Table of Characteristics are as follow:

- a) **VG:** *Visual assessments by a single observation of a group of plants or parts of plants*
- b) **VS:** *Visual assessments by a single observation of individual plants or parts of plant*
- c) **MG:** *Measurement by a single observation of a group of plants or parts of plants*
- d) **MS:** *Measurement by a single observation of individual plants or parts of plant*

5. A Code number in the sixth column of Table of characteristics indicates the optimum stage for the observation of each characteristic during the growth and development of plant. The relevant growth stages corresponding to these code numbers are described below-

- a) Tree type and habit: Observation should be made on growth pattern during winter.
- b) Leaf characteristics: Observations should be recorded from the middle leaf (mature) of branches.
- c) Observations on flowers should be made at the time of full bloom (75% flowering).
- d) Fruit: Observations on the mature fruits should be taken with minimum sample of 5 numbers.

VII. Table of characteristics

S.N.	Characteristics	States	Notes	Example accession/verities	State of observation	Type of assessment
1	2	3	4	5	6	7
1 (* (+)	Growth habit	Spreading	3	Goma Priyanka, Gokak-1, Gokak-2,	5(a)	VS
		Semi-spreading	5	Konkan Bahadoli, Gokak-3,		
		Upright	7	CISH J-42, CISH J-37		
2	Tree foliage type	Sparse	1	-	5(a)	VS
		Dense	3	CISH J-42, CISH J-37, Goma Priyanka, Konkan Bahadoli, Gokak-1, Gokak-2, Gokak-3 ,		
3 (*	Mature Leaf Colour	Green	3	Gokak-1	5 (b)	VG
		Dark green	5	CISH J-42, CISH J-37, Goma Priyanka, Konkan Bahadoli, Gokak-2, Gokak-3		
4 (*	Leaf Lamella Surface	Smooth	3	CISH J-42, CISH J-37, Goma Priyanka, Konkan Bahadoli	5 (b)	VG
		Wavy	5	Gokak-1, Gokak-2 Gokak-3		
5 (* (+)	Leaf Apex	Acute	3	Konkan Bahadoli	5 (b)	VG
		Acuminate	7	CISH J-42, CISH J-37, Goma Priyanka, Gokak-1, Gokak-2, Gokak-3		
6 (* (+)	Leaf Base	Acute	3	CISH J-42, CISH J-37, Goma Priyanka, Konkan Bahadoli, Gokak-1, Gokak-2, Gokak-3	5 (b)	VG
		Round	7	-		
7 (*	Leaf length: width ratio	Low (<2.0)	3	CISH J-42, Konkan Bahadoli, Gokak-1	5 (b)	MG

		High (>2.0)	7	CISH J-37, Goma Priyanka, Gokak – 2, Gokak – 3		
8 (*)	Inter nodal length	Short (<6.0 cm)	3	-	5 (b)	MS
		Medium (6.0 to 7.5 cm)	5	CISH J-42, CISH J-37, Gokak –1, Gokak-2		
		Long (>7.5 cm)	7	Goma Priyanka, Konkan Bahadoli, Gokak-3		
9 (*)	Petiole length	Short (<1.5 cm)	3	-	5 (b)	MG
		Medium (1.5 to 2.5 cm)	5	CISH J-37, Goma Priyanka, Gokak – 3		
		Long (>2.5 cm)	7	CISH J-42, Konkan Bahadoli, Gokak-1, Gokak – 2		
10 (*)	Newly flush color	Light pinkish brown	3	Goma Priyanka, Gokak-1, Gokak-2, Gokak-3	5 (b)	VG
		Light greenish brown	7	CISH J-42, CISH J-37, Konkan Bahadoli		
11	Initiation of bloom	Early (2 nd week February)	3	CISH J-42	5 (c)	MG
		Medium (3 rd to 4 th week February)	5	CISH J-37, Goma Priyanka, Konkan Bahadoli, Gokak-1, Gokak-2, Gokak-3		
		Late (1 st week March)	7	-		
12 (*)	Inflorescence length: diameter ratio	Low (<1.0cm)	3	CISH J-42, CISH J-37, Goma Priyanka,	5 (c)	MS
		Medium (1.0 to 1.2 cm)	5	Gokak-1		
		High (>1.2cm)	7	Konkan Bahadoli, Gokak-1, Gokak-2, Gokak-3		
13 (*)	Mature fruit colour	Purple red	1	CISH J-42, CISH J-37	5 (d)	VG
		Dark purple	2	Goma Priyanka, Konkan Bahadoli, Gokak-2, Gokak-3,		
		Purple black	3	Gokak-1		
14	Mature fruit	Oblong	3	Goma Priyanka,	5 (d)	VG

(*) (+)	shape			Konkan Bahadoli		
		Elliptic	5	Gokak -1, Gokak-2, Gokak-3		
		Ovoid	7	CISH J-42, CISH J-37		
		Round	9	-		
15 (*) (+)	Mature fruit apex	Flat	3	Goma Priyanka, Konkan Bahadoli, Gokak-1, Gokak-2, Gokak-3	5 (d)	VS
		Depressed	5	CISH J-42, CISH J-37		
		Round	7	-		
16 (*) (+)	Mature fruit: stalk end	Nipple shape	3	CISH J-42, CISH J-37	5 (d)	VS
		Flattened	5	Goma Priyanka		
		Depressed	7	Konkan Bahadoli, Gokak-1, Gokak-2, Gokak-3		
17	Mature fruit pulp colour	Cream white	1	CISH J-42, CISH J-37, Goma Priyanka, Konkan Bahadoli, Gokak-1, Gokak-2, Gokak-3	5 (d)	VG
		Purple white	9	--		
18 (*)	Ripe fruit weight	Low (<10.0g)	3	CISH J-42	5 (d)	MS
		Medium (10.0 to 15.0 g)	5	Konkan Bahadoli, Gokak-1, Gokak-2, Gokak-3		
		High (>15.0g)	7	CISH J-37, Goma Priyanka		
19 (*) (+)	Ripe fruit length	Short (<3.0 cm)	3	CISH J-42	5 (d)	MS
		Medium (3.0 to 4.0 cm)	5	Konkan Bahadoli, Gokak-2, Gokak-I, Gokak-3		
		Long (>4.0 cm)	7	CISH J-37, Goma Priyanka, Gokak-1		
20 (*) (+)	Ripe fruit breadth	Narrow (<2.0 cm)	1	CISH J-42	5 (d)	MS
		Medium (2.0 to 2.5 cm)	2	Konkan Bahadoli		
		Wide (>2.5 cm)	3	CISH J-37, Goma Priyanka, Gokak-1,		

				Gokak-2, Gokak-3		
21 (*)	Ripe fruit Size	Small ($<7.0 \text{ cm}^2$)	3	CISH J-42	5 (d)	MS
		Medium (7.0 to 11.0 cm^2)	5	Konkan Bahadoli, Gokak-1, Gokak-2, Gokak-3		
		Large ($>7.0 \text{ cm}^2$)	7	CISH J-37, Goma Priyanka		
22 (*)	Seed weight	Low ($<1.7 \text{ g}$)	3	-	5 (d)	MG
		Medium (1.7 to 2.0 g)	5	Goma Priyanka, Gokak-1, Gokak-2, Gokak-3		
		High ($>2.0 \text{ g}$)	7	CISH J-37, Konkan Bahadoli		
23 (*)	Pulp Content	Low ($<80\%$)	3	-	5 (d)	MG
		Medium (80 to 90%)	5	Goma Priyanka, Konkan Bahadoli, Gokak-1, Gokak-2, Gokak-3		
		High ($>90\%$)	7	CISH J-42		
24 (*)	Seed	Absent	1	-	5 (d)	MG
		Rudimentary	5	CISH J-42		
		Present	9	CISH J-37, Goma Priyanka, Gokak-1, Gokak-2, Gokak-3, Konkan Bahadoli		
25 (*)	Pulp TSS	Low ($<12.0 \text{ } ^\circ\text{B}$)	3	CISH J-42, Gokak -1, Gokak -2, Gokak -3	5 (d)	MG
		Medium (12.0 to 15.0 $^\circ\text{B}$)	5	Konkan Bahadoli,		
		High ($>15.0 \text{ } ^\circ\text{B}$)	7	CISH J-37, Goma Priyanka		
26 (*)	Pulp: Seed Ratio	Low (<10.0)	3	Konkan Bahadoli	5 (d)	MG
		Medium (10.0 to 16.0)	5	Goma Priyanka, Gokak-1, Gokak-2, Gokak-3,		
		High (>16.0)	7	CISH J-37		

VIII. Explanation on the Table of Characteristics

Characteristic 1: Growth habit



(3)
Up right



(5)
Semi- Spreading



(7)
Spreading

Characteristic 5 :Leaf Apex



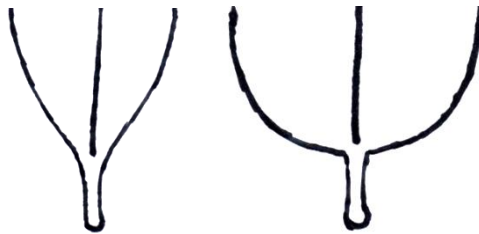
Acute

(3)

Acuminate

(7)

Characteristic 6 : Leaf Base



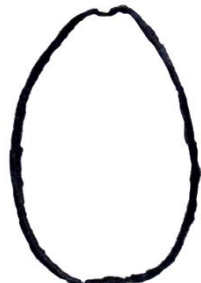
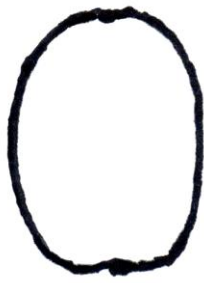
Acute

Round

(3)

(7)

Characteristic 14 : Mature fruit shape



Oblong

Elliptic

Ovoid

Round

(3)

(5)

(7)

(9)

Characteristic 15 : Mature fruit apex



(3)

(5)

(7)

Flat

Depressed

Round

Characteristic 16 : Mature fruit : stalk end



Nipple shape

Flate

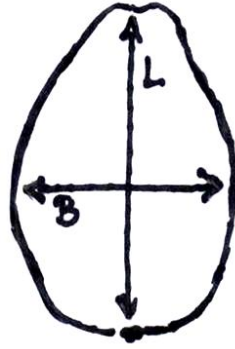
Depressed

(3)

(5)

(7)

Characteristic 19&20 : Mature fruit length & breadth (from middle part of fruit)



Characteristic 25: Pulp TSS (°Brix)

The fruits of the variety under test shall be harvested as per uniformity in size, shape and colour at maturity stage. For determination of total soluble solid (TSS), the fruits should be taken in 5 replication. After washing and wrapping fruit pulp in cheesecloth, squeezing the juice to measure TSS by using hand Refractometer (ERMA, Japan) and the TSS expressed in ° Brix.

Characteristic 26: Pulp: Seed ratio

The seed shall be removed from the fruit. Then seed and pulp of fruit weighed separately.

The Pulp: Seed ratio shall be determined by following formula-

$$\text{Pulp: Seed ratio} = \frac{\text{Average pulp weight (g)}}{\text{Average seed weight (g)}}$$

IX. Working Group details:

The Test Guidelines developed by the Task Force (01/2015) constituted by the PPV & FR Authority consultation with the Director, CISH, Lucknow and Nodal officer Dr. A. K. Singh, Pr. Scientist, CISH, Lucknow.

The members of the task force :

- | | | |
|----|--|----------|
| 1. | Dr. Kirti Singh
Chairperson, World Noni Research Foundation
38-G, Maruti Nagar, T.D. College Main Gate
Husenabad, Jaunpur – 222002 (UP) | Chairman |
| 2. | Dr. V.A. Parthasarathy
Former Director & Emeritus Scientist, IISR,
Res:- Narmada Nilayam, 32/482C, Bharathan
Bazar, Chelavoor, Calicut – 673571 | Member |
| 3. | Dr. S.B. Dandin | Member |

Former Vice-Chancellor and Liason Officer
India, Bengaluru-Bioiversity International
College of Horticulture, UHS Campus, GKVK Post,
Bengaluru-560065

4. Dr. A.K. Singh Member
Principal Scientist (Hort.) & PI
Central Institute for Subtropical Horticulture,
Rehmankhara, P.O. Kakori, Lucknow – 226101

5. Dr. Sanjay Singh Member
Head, CHES, CIAH, (ICAR), Vejalpur, Godhra,
Baroda – 389001

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

Nodal Persons

Dr. A.K. Singh,
Principal Scientist (Horticulture) ,
Central Institute for Subtropical Horticulture,
P.O. Kakori, Rehmankhara, Luknow (Uttar Pradesh)

Co-nodal Persons

Dr. Sanjay Singh,
Principal Scientist & Head,
Central Horticulture Experiment Station,
Godhra (CIAH, Bikaner)

IX. DUS testing centers

Nodal DUS Centre	Other DUS Centre
Central Institute for Subtropical Horticulture, P.O. Kakori, Rehmankhara, Lucknow (UP)	Central Horticulture Experiment Station, Godhra (CIAH, Bikaner)

Bael (*Aegle marmelos* Correa)

I. Subject

These test guidelines shall apply to all varieties and hybrids of bael (*Aegle marmelos* Correa).

II. Planting material required

1. The Protection of Plant Varieties and Farmers' Rights Authority (PPV & FRA) Shall decide on the quantity and quality of the planting material(s) required for testing the variety and when and where it is to be delivered for registration under the Protection of Plant Varieties and Farmers' Rights (PPV & FRA) Act, 2001. Applicants submitting such planting material(s) 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. The minimum number of planting material to be supplied by the applicants or his/her nominee/assignee during July-August shall be 05 (five) for each DUS Test Centre.
2. The planting materials supplied shall be healthy, not lacking in vigour or Nutrition as well as free from pests or diseases or any mechanical damage. The age of the plant(s) shall be minimum 06 months from the date of budding (propagated through patch budding) raised in the polythene bags (25 cm x 10 cm size) with potting mixture (2:2:1 ratio of loam soil, compost and fine sand).The root stocks should be raised from the seeds of single fruit or developed through stooling.
3. The planting material(s) shall not have undergone any treatment (chemical/bio-physical or others) which would affect the expression of the characteristics of the variety, unless the Competent Authority allow or request for such treatment. If it has been treated, full details of the treatment must be mentioned explicitly.

III. Conduct of tests

1. The minimum duration of the DUS tests shall normally be at least two independent similar fruiting seasons in different years.
2. The Tests shall be conducted at least at two places. If any essential characteristic of the candidate variety are not expressed for visual observation at these locations, the variety shall be considered for further examination at another appropriate test site or under special test protocol on expressed request by the applicant for which additional quantity of planting material shall be required. In case any unforeseen situation, the data from third fruiting season may also be considered for testing.
3. The tests should be carried out under favourable conditions ensuring normal growth for the expression of the relevant characteristics of the variety and for the conduct of the tests. In particular, it is essential that the plants produce a satisfactory crop of fruit in each of the two growing cycles.

4. Test plot design

The design of the tests should be such that plants or parts of plants may be removed for measurement or observation without prejudice to the observations which must be made up to the end of the growing cycle. The additional test protocol for special purpose may be established by PPV & FRA. As the minimum, each test shall include five plants per location, planted at DUS test centre, with a spacing of 8m x 8m.

5. Each test shall include five plants per location, planted at DUS test centre with a spacing of 8m x 8m.
6. The additional test protocol for special purpose may be established by PPV & FRA.

7. On-site DUS testing

The applicant or his/her nominee on his/her behalf shall submit a request to the Authority for conducting a reliable trial according to Test Guidelines and the instructions from Authority before on-site examination of the candidate variety.

The applicant or his/her nominee shall submit a request to the Authority for on-site examination prior to start of growing cycle as mentioned in Test Guidelines for site examination of the candidate variety. On-site testing may be conducted at the places specified by the applicant. The age of the trees at on-site shall be minimum 5 years. As a minimum, 05 trees planted in uniform spacing should be available for inspection and examination for 'on site' DUS testing. The trees must be healthy and free from pest & disease and raised under standard and uniform management practices. For farmer's variety or landraces, the authority may notify suitable guidelines on the number of plant(s) and season(s), if any.

On-site examination shall be arranged during the fruiting season, when distinguishing characteristics of candidate variety can easily be seen. The characteristics of the candidate variety can be examined and compared with those of the comparative varieties as per the Test guidelines.

The Expert Committee constituted by the PPV & FRA in consultation with the DUS Centre shall be authorized to inspect on-site testing and validation of recorded DUS characters. Applicant shall supply the Expert Committee with summary of distinct characteristics supported by photographs. The Expert Committee shall take notes and observations on distinctness and shall confirm preliminary data and/or summary of distinctness from applicant to the authority of PPV & FRA, New Delhi.

IV. Methods and observations

1. The characteristics described in the Table of characteristics (see section7) shall be used for the testing varieties and hybrid for their DUS.
2. For the assessment of Distinctiveness and Stability observations shall be made on 05 plants or parts taken from each of 05 plants. In the case of parts of plants, the number to be taken from each of the plants should be fully mature leaves, not showing the sign of active growth, in the middle of tertiary branches should be selected for the observations on the leaf.
3. Observations on the mature fruit should be recorded when fruit is ready for harvesting.
4. For assessment of all colour characteristics, the Royal Horticultural Society (RHS) colour chart shall be used.

V. Grouping of varieties

The candidate varieties for DUS testing shall be divided into groups to facilitate the assessment of Distinctiveness. Characteristics, which are known from experience not to vary, or to vary only slightly within a variety and which in their various states are fairly evenly distributed across all varieties in the collection are suitable for grouping purpose.

The following characteristics are to be used for grouping *bael* varieties:

- a. Growth habit (Characteristic 1)
- b. Leaf characters (Characteristic 5-11)
- c. Flower characters (Characteristic 17, 18 &19)
- d. Fruit Shape (Characteristic 23)
- e. Fruit characters (Characteristic 30, 32, 33&35)

VI. Characteristics and symbols

1. To assess Distinctiveness, Uniformity and Stability, the characteristics and their states as given in the Table of characteristics (Section 7) shall be used.
2. Notes (1 to 9) shall be given for each state of expression for different characteristics for the purpose of electronic data processing.

3. Legend

(*) Characteristics that shall be observed during every growing season on all varieties and shall always be included in the description of the variety, except when the state of expression of any of these characters is rendered impossible by a preceding phenological characteristic or by the environmental conditions of the testing region. Under such exceptional situation, adequate explanation shall be provided.

(+) See Explanation on the Table of characteristics in Section 7. It is to be noted that for certain characteristics, the plant parts on which observations to be taken are given in the explanation or figure(s) for clarity and not the colour variation.

4. Type of assessment of characteristics indicated in column seven of Table of Characteristics are as follow:

MG: Measurement by single observation of a group of plants or part of plants.

MS: Measurement by a single observation of individual plants or part of plants.

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

VS: Visual assessment by observation of individual plant or part of plants.

5. A code number in the sixth column of Table of characteristics indicates the optimum stage for the observation of each characteristic during the growth and development of plant. The relevant growth stages corresponding to these code numbers are described below:

a) Observation on growth habit, shoot surface and leaf characters should be recorded after four to five (September-October) months of leaf shedding, when canopy attains its characteristic shape.

b) Observation on immature fruit should be recorded in the month of September when fruit has not attained its full size and is predominantly green and quite hard in texture.

c) Observations on the mature fruit should be recorded when 40 per cent fruit is ready for harvesting.

VII. Table of characteristics

Sr. No.	Characteristics	State	Note	Example variety	Stage of observation	Type of assessment
1	2	3	4	5	6	7
1 (* (+)	Growth habit	Drooping	1	Pant Aparna, Pant Shivani	a	VG
		Spreading	3	Pant Urvashi, NB-9, NB-16,		
		Semi-spreading	5	CISHB-2, Pant Sujata, NB-5, NB-7, Goma Yashi,		
		Upright	7	CISHB-1, NB-17		
2.	Foliage	Sparse	1	CISHB-2, NB-16,	a	VG

(*)					NB-17, Pant Shivani, Pant Aparna		
			Dense	9	CISHB-1, Pant Sujata, Pant Urvashi, NB-5 NB-9, Goma Yashi		
3. (*) (+)	Phyllotaxy		Tristichous	1	CISHB-2, Pant Sujata, NB-5, NB- 9, NB-16, Goma Yashi	a	VG
			Pentastichous	9	CISHB-1, Pant Aparna, Pant Urvashi, NB-7, NB-17		
4. *	Inter nodal distance (cm)		Low (<3 cm)	3	NB-5,	a	MG
			Medium 3-3.50 cm	5	Pant Sujata, Pant Urvashi, NB- 17, GomaYashi, NB-16		
			High >3.50 cm	7	NB-9, NB-7, CISHB-1, CISHB- 2,Pant Aparna, Pant Shivani,		
5 (*)	Leaf size		Small	3	Pant Urvashi, NB- 9, NB-17, NB-5	a	MS
			Medium	5	Pant Sujata, Goma Yashi, Pant Aparna		
			Large	7	NB-7, Pant Shivani		
6 (*) (+)	Leaf shape	Central leaflet	Broadly lanceolate to ovate	1	CISHB-1	a	VG

			Ovate	3	Pant Aparna, Pant Urvashi, Pant Shivani, NB-17, CISHB-2		
			Ovate to elliptic	5	NB-5		
		Lateral Leaflet	Ovate	1	CISHB-1,CISHB- 2,Pant Aparna, Pant Urvashi, Pant Shivani, NB-9,NB- 17		
			Elliptical	3	NB-5,		
			Lanceolate	5	Goma Yashi		
7. (* (+)	Leaf apex		Acuminate	3	CISHB-1, CISHB- 2,	a	VG
			Acute	7	Pant Aparna, Pant Sujata, Pant Shivani, NB-16,		
			Aristate	9	Goma Yashi		
8 (* (+)	Leaf base		Narrowly Cuneate	1	CISHB-1,Pant Sujata, NB-5, NB- 16 Pant Aparna, Goma Yashi	a	VG
			Round	5	CISHB-2, Pant Urvashi, Pant Shivani, NB-9, CISHB-1,		
			Attenuate	7	NB-7		
9. (* (+)	Leaf Surface		Smooth	1	NB-7, Pant Aparna, Pant Sujata, Pant Urvashi, NB-7, NB-9, NB-16	a	VG

		Rough	9	CISHB-1,CISHB-2,Pant Shivani, NB-5, NB-17,		
10. (*)	Leaf length (cm)	Small < 20 cm	1	CISHB-1, Pant Urvashi, NB-5, NB-9, Goma Yashi	a	MS
		Large>20-cm	9	CISHB-2, Pant Aparna, Pant Sujata,NB-17, NB-16, Pant Shivani, NB-7		
11. (*)	Leaf width (cm)	small <18 cm	1	NB-16, Goma Yashi, NB-17,NB-5,Pant Urvashi,	a	MS
		Large>18 cm	9	CISHB-2,CISHB-1,NB-9,Pant Aparna, NB-7		
12. (*)	Trunk colour	Yellowish grey	1	CISHB-1, Pant Shivani,NB-5,NB-17	a	VG
		Yellow	3	CISHB-2,Pant Aparna,		
		Greyish yellow	5	Pant Sujata, Pant Urvashi,		
		Grey	7	NB-7, NB-9, NB-16		
13. (*)	Bark splitting pattern	Rectangular	3	NB-5,NB-17	a	VG
		Cylindric	5	CISHB-1,Pant Shivani, CISHB-2,Pant Urvashi,		

		Irregular	7	Pant Aparna,NB-16,NB-9, Pant Sujata, NB-7,		
14 (*).	Leaf colour	Light green	3	Pant Shivani, Pant Urvashi,	a	VG
		Green	5	CISHB-1,NB-16,CISHB-2,NB-17, Goma Yashi		
		Dark green	7	NB-5, Pant Aparna,NB-16,		
15. (* (+)	Leaf margin	crenulate	3	CISHB-1,Pant Urvashi, Pant Sujata	a	VG
		crenate	7	Pant Shivani, NB-5, NB-9, CISHB-2, Pant Aparna,		
16. (* (+)	Thorniness at basal portion of primary branches	thornless	1	Pant Shivani, Goma Yashi,	a	VS
		thorny	9	CISHB-1,NB-5, Pant Aparna, NB-16, NB-9, Pant Sujata, NB-17, NB-7, CISHB-2,		
17 (+)	Inflorescence type	Axillary biparous cyme	1	Pant Aparna, Pant Urvashi, CISHB-1,CISHB-2,NB-7,	a	VG
		Axillary multiparous cyme	3	Pant Sujata,Nb-17,Goma Yashi,		
		Terminally biparous	5	Pant Shivani		

		cyme				
		Terminally multiparous cyme	7	NB-16, NB-5		
		Axillary Uniparous	9	NB-9		
18 (*)	Inflorescence length	Small <8cm	1	Pant Shivani CISHB-1, Pant Urvashi, NB-9, Goma Yashi, NB-17	a	MS
		Light green	3	NB-5, NB-17		
19 (*)	Flower size	Small <12	1	NB-9, Goma Yashi	a	MS
		Medium 12-15 cm	5	CISHB-1, NB-5, NB-16, Pant Shivani, Pant Urvashi		
		Large >15 cm	9	CISHB-2, NB-7, NB-17, NB-16, Pant Sujata		
20 (*)	Maturity of fruit	Early (After 280 days of fruit setting))	3	CISHB-1, Pant Shivani, Goma Yashi	c	VG
		Mid (after 310 days of fruit setting)	5	Pant Sujata, Pant Urvashi, NB-9, Pant Aparna		
		Late (after 340 days of fruit setting)	7	CISHB-2, NB-5, NB-7		
21 (*)	Immature fruit colour	Light green	3	CISHB-1, NB-7 Pant Shivani, Goma Yashi	b	VG

		Green	5	CISHB-2, NB-5, NB-16, Pant Urvashi, Pant Sujata		
		Dark green	7	NB-9, Pant Aparna		
22. (* (+)	Mature fruit colour	Green	3	NB-16, Pant Sujata, NB-9, CISHB-2	C	VG
		Greenish pale yellow	5	NB-5, Goma Yashi		
		Yellowish Green	7	CISHB-1, Pant Aparna, Pant Shivani, NB-17, Pant Urvashi, NB-7		
23. (* (+)	Fruit Shape	Globose	1	Goma Yashi, Pant Shivani, Pant Urvashi	C	VS
		Ovate	3	CISHB-1, NB-9,		
		Elliptical	5	CISHB-2, NB-7, Pant Urvashi		
		Round	9	Pant Aparna, NB- 16, Pant Sujata		
28. (* (+)	Fruit Surface	Smooth	1	NB-5,NB-7, Pant Shivani, Goma Yashi CISHB- 2,CISHB-1, Pant Urvashi, Pant Aparna	C	VG
		Rough	9	NB-9,NB-16, Pant Sujata		
29. (* (+)	Pulp colour	Pale yellow	1	NB-5, NB-7, NB- 16, CISHB-2	C	VG
		Yellow	2	Pant Shivani, Pant Sujata, Pant		

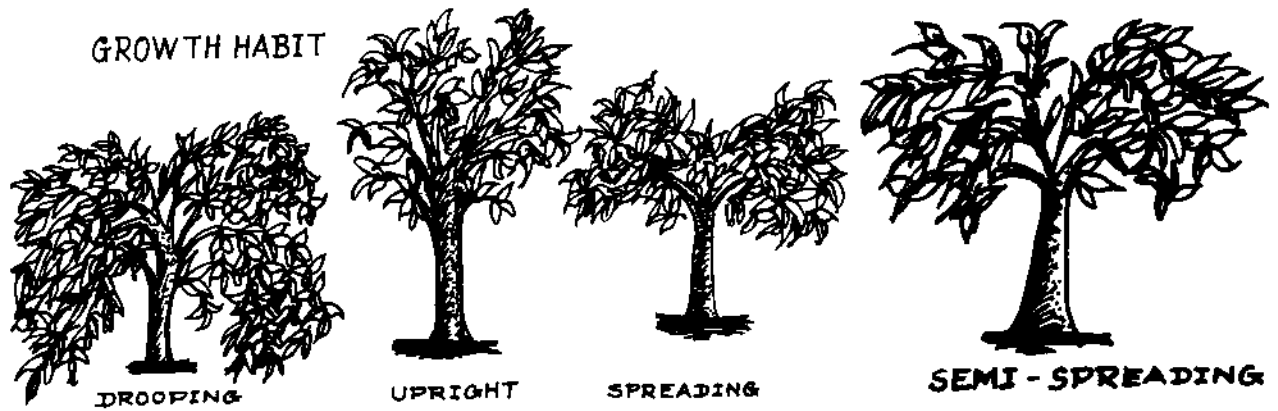
				Aparna, Goma Yashi, NB-17		
		Dark yellow	3	CISHB-1, NB-9, Pant Urvashi,		
30. (* (*)	Shell thickness	Thin < 2mm	1	GomaYashi, NB-5, CISHB-1,	C	VG
		Thick >2mm	9	N B-7, NB-9, Pant Urvashi, NB-16, CISHB-2, Pant Aparna, Pant Sujata, NB-17, Pant Shivani,		
31. (* (*)	Mucilage	Low	3	Goma Yashi, CISHB-1,NB-5,NB-17	C	VS
		High	5	NB-9, NB-16, Pant Sujata, CISHB-2, Pant Aparna, Pant Shivani		
32. (* (*) (+)	Styler end cavity	Shallow	3	CISHB-1, NB-9, NB-17, Pant Aparna, Pant Sujata,	C	VG
		Depressed	5	NB-5, Pant Aparna, Pant Shivani, CISHB-2, NB-16, Goma Yashi		
		Highly depressed	7	Pant Urvashi, NB-7		
33 (* (*)	Stem end Cavity	Shallow	3	CISHB-1, CISHB-2,NB-5, NB-16,	C	VG

		Depressed	5	Goma Yashi, NB-17, Pant Aparna, Pant Urvashi, Pant Sujata,		
		Flattened	7	NB-7		
34. (* (+)	Seed Shape	Round	3	CISHB-1, NB-5, NB-16, Pant Sujata	C	VG
		Oblong	7	Pant Aparna, Pant Shivani, NB-9, CISHB-2, NB-17, Pant Urvashi, NB-7		
35 (* (+)	Locule arrangement	Scattered	3	CISHB-2, NB-17	C	VG
		Centric	5	CISHB-1, Pant Aparna, NB-16, Pant Shivani, NB-9,		
		Highly centric	7	NB-5, Pant Shivani		
36 (*	Fruit weight	Low <1.0 kg	3	NB-16, CISHB-1, Pant Sujata	C	MS
		Medium 1.0 - 2.0 kg	5	Goma Yashi, NB-5, Pant Aparna,		
		High >2.00 kg	7	NB-9, NB-17 CISHB-2, Pant Shivani, Pant Urvashi, NB-7		
	Crude Fiber (%)	Low	1	Goma Yashi, NB-5,	C	MS
		Medium	3	Pant Sujata, Pant Aparna, NB-9, CISHB-2 CISHB-1.		

(*)		High	7	NB-17, Pant Shivani, Pant Urvashi, NB-16		
38. (*)	Total number of Seeds	Low<125	1	Goma Yashi, Pant Urvashi	C	MS
		Mediums 126-175	3	NB-9, Pant Urvashi, NB-5,		
		High >175	5	Pant Sujata, CISHB-2, Pant Shivani , NB-7, NB-17, NB-16,CISHB-1		
39.	Total soluble solids (°Brix) of pulp	Low <33 (°Brix)	3	CISHB-1, CISHB-2, Pant Sujata,	C	MS
		Medium (34-38 °Brix)	5	Pant Aparna, NB-17, NB-7, NB-16,, NB-5		
		High (>38°Brix)	7	Pant Shivani, Pant Urvashi, Goma Yashi		
40.	Total soluble solids(°Brix) of mucilage	Low 40-45 (°Brix)	3	Pant Aparna, CISHB-2, Goma Yashi,	C	MS
		Medium <46-50 (°Brix)	5	NB-16, Pant Sujata, Pant Shivani		
		High>50 (°Brix)	7	Pant Urvashi, NB-5,		

7. Explanation for the Table of Characteristics

Characteristic: 1. Growth habit



Drooping



Upright

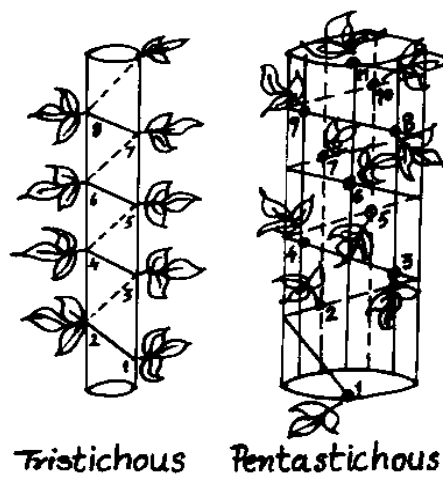


Spreading

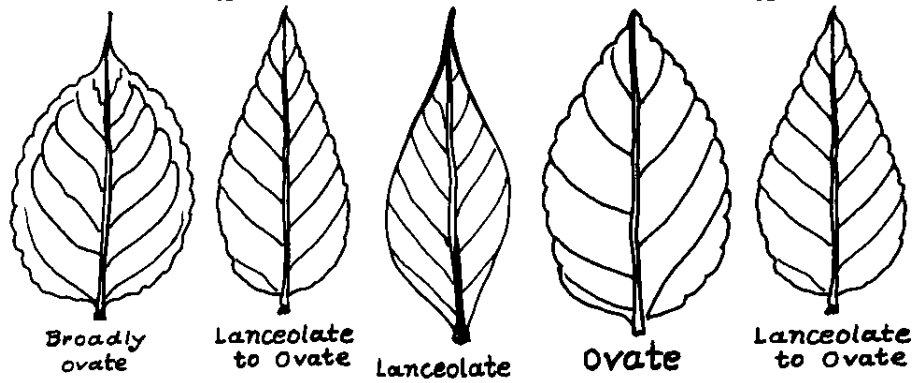


Semi spreading

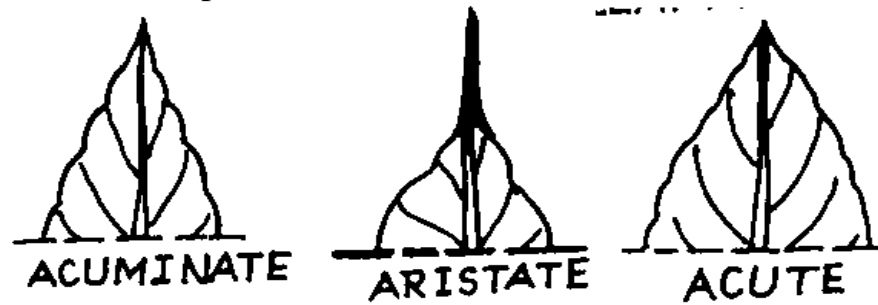
Characteristic: 3. Phyllotaxy



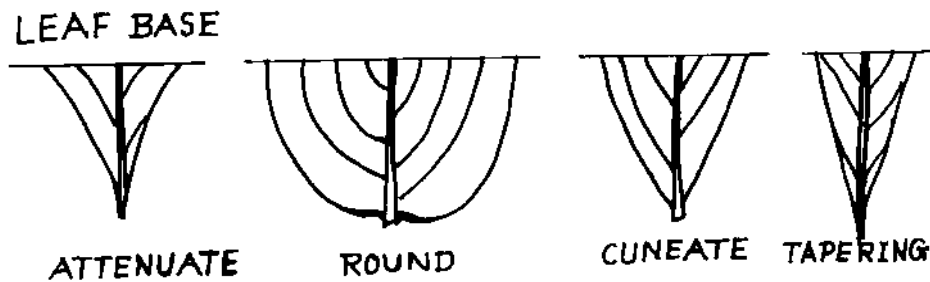
Characteristic: 6. Leaf shape



Characteristic: 7. Leaf apex



Characteristic: 8. Leaf base





Attenuate



Round



Cuneate

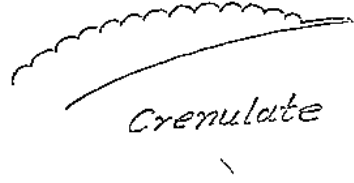


Tapering

Characteristic: 15. Leaf margin



Crenate



Crenulate

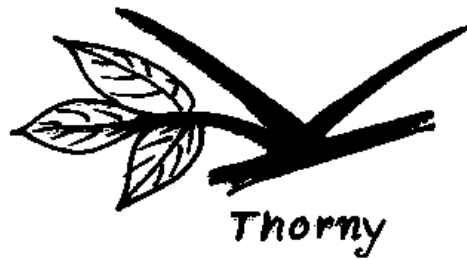


Crenate



Crenulate

Characteristic: 16. Thorn

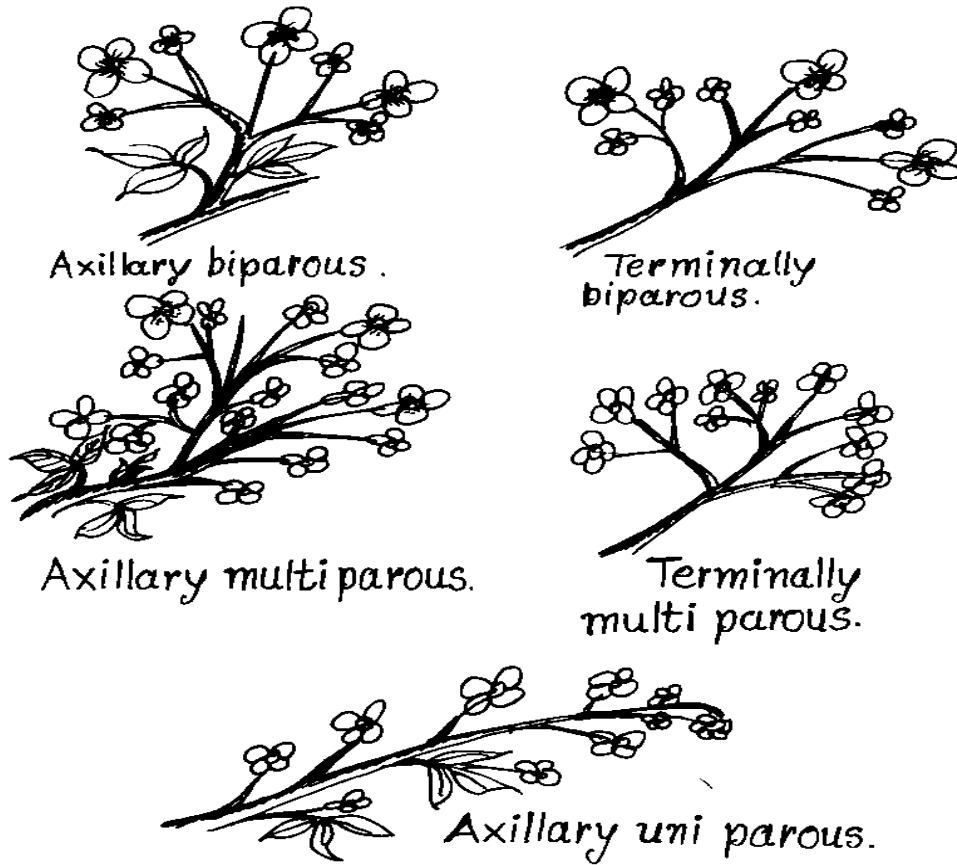


Thorny



Thornless

Characteristic: 17. Inflorescence type



Characteristic: 22. Mature fruit colour

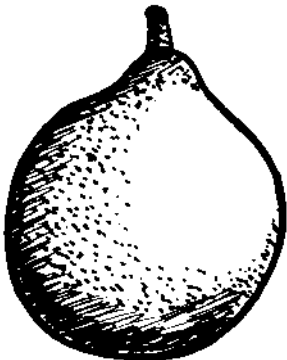


Yellowish green

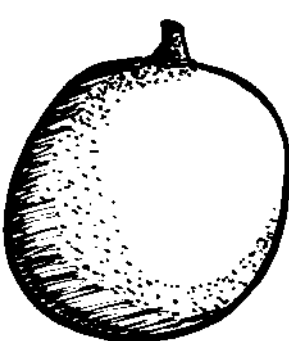
Greenish pale yellow

Green

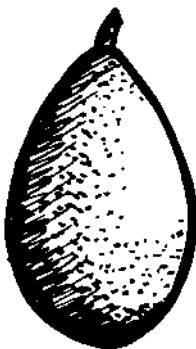
Characteristic: 23. Fruit shape



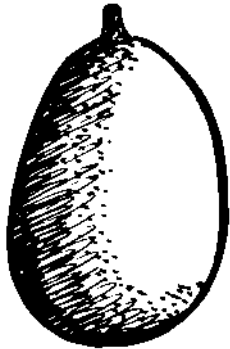
GLOBOSE



ROUND



OVATE



ELLIPTICAL



Globose



Round



Ovate



Elliptical

Characteristic: 32. Styler end



DEPRESSED

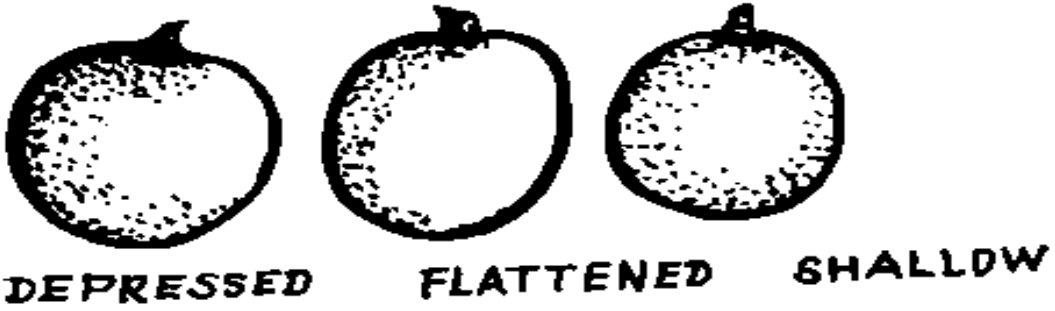


**HIGHLY
DEPRESSED**



SHALLOW

Characteristic: 33. Stem end



Depressed

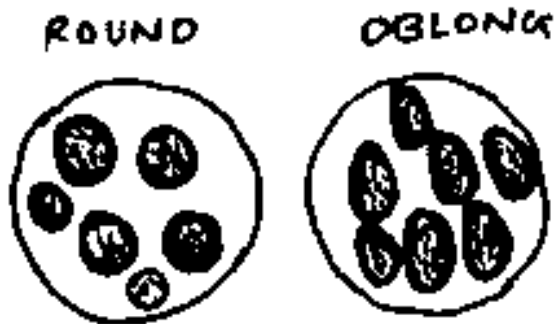


Flattened



Shallow

Characteristic: 34. Seed shape



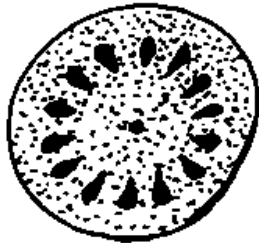


Round

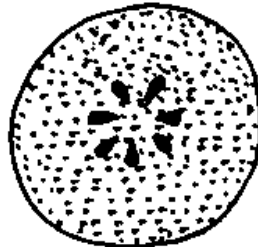


Oblong

Characteristic: 35. Locule arrangement



CENTRIC



HIGHLY CENTRIC



SCATTERED



Centric



Highly centric



Scattered

s

Characteristic 40: Fiber (%)

2g of moisture and fat free material was treated with 200 ml Of 1.25% sulphuric acid (H_2SO_4). After filtration with Whattman paper no.4 and washing the residue

was treated with 1.25% Na OH. It was filtered, washed with hot water and then 1% HNO₃ and again with hot water. The residue was ignited and the ash weighed. Loss in weight gave the weight of crude fiber.(Chopra and Kanwar,1991 and Mazumdar and Mazumdar, 2003)

$$\text{Crude Fiber\%} = \frac{(c-b)-(d-b)}{(a)} \times 100$$

a= wt. of sample

b= wt. of crucible

c= initial wt. of crucible containing tissue sample before ignition

d= final weight of crucible containing ash after ignition.

Characteristic 42 & 43: Pulp & mucilage TSS (⁰Brix)

The fruits of the variety under test shall be harvested as per uniformity in size, shape and colour at maturity stage. For determination of total soluble solid (TSS), twenty gram fruit pulps (20 g) shall be blended for 3 min. Followed by wrapping in cheesecloth, squeezing by hand and then expressing juice used for measurement of TSS in ⁰Brix using hand-held/ digital refractometer (Krishna and Parashar, 2013). Similarly mucilage was collected from the fruit and directly measurement of TSS.

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**Photographs of candidate varieties notified in Plant Variety Journal of India,
Vol.-09, No.-11, November 02, 2015**

Pearl Millet / Nirmal-1651 (NPH-1651)



Figure 01. General view of crop