



भारत सरकार
GOVERNMENT OF INDIA

भारतीय पौधा किस्म जर्नल
PLANT VARIETY JOURNAL OF INDIA

खण्ड – 07, अंक – 09, सितम्बर 02, 2013
Vol. - 07, No. - 09, September 02, 2013



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

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



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GOVERNMENT OF INDIA

भारतीय पौधा किस्म जरनल, खण्ड 07, अंक 09
सितम्बर 02, 2013 / भाद्रपद-कृष्ण 13, शक् 1935

Plant Variety Journal of India, Vol. 07, No. 09
September 02, 2013 / Bhadrapada-Krishna 13, Saka 1935



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NASC Complex, DPS Marg, Opp. Todapur Village, New Delhi – 110 012

'भारतीय पौधा किस्म जर्नल पौधा किस्म और कृषक अधिकार संरक्षण प्राधिकरण (पौ.कि.कृ.अ.सं.प्रा.) का आधिकारिक जर्नल 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.

Annual Subscription of Plant Variety Journal Published by the PPV&FR Authority

Protection of Plant Varieties & Farmers' Rights Authority Publishes its Journal " Plant Variety Journal of India" a monthly bilingual (Hindi & English) publication and it is made available to the public on the first working day of the each month on its official website www.plantauthority.gov.in. the cost of hard copy of the PVJ is `100/month. The journal has the status equivalent to a Gazette under PPVFR regulation, 2006. The PVJ contains the information relating to official and public notices, variety registered under PPV&FR Act,2001, Passport data of plant varieties, Details of Gazette notifications, DUS Test Crop specific guidelines, details of certificates of registration and other related matters. Therefore, interested subscribers/institutes/organisations may send DD/multicity cheque of `1000/ for annual subscription drawn in favour of "Registrar PPV&FRA" Payable at New Delhi and may be send to Registrar, PPV&FRA, Opp. Todapur Village, DPS Marg, Nasc Complex, New Delhi-110012

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.

| | | | |
|------------|-------------|-----------|------------|
| F47 | OS51 | 11 | 226 |
|------------|-------------|-----------|------------|

 filed on 19.04.2011 by **Dr. Debal Deb, on behalf of BASUDHA, Binodbati, P.O. Layekbandh, Bankura- 722157, West Bengal** a Farmers' variety of crop **Rice** [*Oryza sativa* L.] having denomination **GHEOS**, 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 : **GHEOS**

Applicant : Dr. Debal Deb

Address of the Applicant : BASUDHA, Binodbati, P.O. Layekbandh, Bankura- 722157,
West Bengal

Nationality of Applicant : Indian

Application details

a. Number :

| | | | |
|------------|-------------|-----------|------------|
| F47 | OS51 | 11 | 226 |
|------------|-------------|-----------|------------|

b. Date of receipt : 19.04.2011

C. Date of acceptance : 23.05.2011

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

Denomination : **GHEOS**

Type of Variety : Farmers' variety

Classification of Variety : Typical

Previously proposed Denomination : Not applicable

Name of Parental Material : NA

Name of Reference Varieties : Savitri

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 to late |
| Stem: Length (excluding panicles; excluding floating rice) | Very short to short |
| Decorticated grain: Length | Medium |
| Decorticated grain: Shape (in lateral view) | Short bold |
| Decorticated grain: Colour | Light brown to variegated brown |
| Endosperm: Content of amylose | Medium |
| Decorticated grain: Aroma | Absent |
| <p>B. Distinct Characteristics:</p> <p>GHEOS has distinguishing character like broad width of decorticated grains.</p> | |
| <p>C. Reference varieties:</p> <p>Savitri has distinguishing character like medium width of decorticated grains.</p> | |
| <p>D. Date of commercialization of the variety</p> | <p>---</p> |

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

02. Application No.

| | | | |
|------------|-------------|-----------|------------|
| F25 | OS29 | 11 | 203 |
|------------|-------------|-----------|------------|

 filed on 13.04.2011 by Director Agriculture and food production, Govt of Odisha, Bhubaneswar, 751001 on behalf of **Shri Ananta Majhi, Podapadar, Block Rampur, District Kalahandi, State Odisha** a Farmers' variety of crop **Rice** [*Oryza sativa* L.] having denomination **KALIA**, 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 : **KALIA**

Applicant : **Shri Ananta Majhi**

Address of the Applicant : **Podapadar, Block Rampur, District Kalahandi, State Odisha**

Nationality of Applicant : Indian

Application details

a. Number :

| | | | |
|------------|-------------|-----------|------------|
| F25 | OS29 | 11 | 203 |
|------------|-------------|-----------|------------|

b. Date of receipt : 13.04.2011

C. Date of acceptance : 23.05.2011

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

Denomination : **KALIA**

Type of Variety : Farmers' variety

Classification of Variety : Typical

Previously proposed Denomination : Not applicable

Name of Parental Material : NA

Name of Reference Varieties : **Dinesh**

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 panicles; excluding floating rice) | Medium to 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 to present |
| B. Distinct Characteristics: | |
| KALIA has distinguishing characters like black colour of lemma tip, purple black lemma and palea and weight of 1000 fully developed grains are very low. | |

| |
|---|
| C. Reference varieties: |
| Dinesh has distinguishing characters like yellowish colour of lemma tip, straw colour of lemma and palea and weight of 1000 fully developed grains are medium. |

| | |
|--|-----|
| D. Date of commercialization of the variety | --- |
|--|-----|

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

03. Application No.

| | | | |
|------------|-------------|-----------|------------|
| F27 | OS31 | 11 | 205 |
|------------|-------------|-----------|------------|

 filed on 13.04.2011 by Director Agriculture and food production, Govt of Odisha, Bhubaneswar, 751001 on behalf of **Shri Bai Majhi, Karlapat, Block- Rampur, Dist- Kalahandi, State-Odisha** a Farmers' variety of crop **Rice** [*Oryza sativa* L.] having denomination **PORA SENKARA**, 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 : **PORA SENKARA**

Applicant : **Shri Bai Majhi**

Address of the Applicant : **Karlapat, Block- Rampur, Dist- Kalahandi, State-Odisha**

Nationality of Applicant : Indian

Application details

a. Number :

| | | | |
|------------|-------------|-----------|------------|
| F27 | OS31 | 11 | 205 |
|------------|-------------|-----------|------------|

b. Date of receipt : 13.04.2011

C. Date of acceptance : 23.05.2011

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

Denomination : **PORA SENKARA**

Type of Variety : Farmers' variety

Classification of Variety : Typical

Previously proposed Denomination : Not applicable

Name of Parental Material : NA

Name of Reference Varieties : **Tulasi**

Variety Description:

| A. Group Characteristics | Remarks measured values, example varieties, etc. |
|--|---|
| Basal leaf: Sheath colour | Green |
| Time of heading (50% of plants with panicles) | Early to medium |
| Stem: Length (excluding panicles; excluding floating rice) | Very short |
| Decorticated grain: Length | Medium to short |
| Decorticated grain: Shape (in lateral view) | Short bold |
| Decorticated grain: Colour | Red |
| Endosperm: Content of amylose | Medium |
| Decorticated grain: Aroma | Absent |
| B. Distinct Characteristics: | |
| PORA SENKARA has distinguishing characters like brown colour of lemma tip and brown furrows on lemma and palea. | |

| |
|--|
| C. Reference varieties: |
| Tulasi has distinguishing characters like purple colour of lemma tip and straw colour of lemma and palea. |

| | |
|--|-----|
| D. Date of commercialization of the variety | --- |
|--|-----|

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

04. Application No.

| | | | |
|------------|-------------|-----------|------------|
| F87 | OS93 | 11 | 327 |
|------------|-------------|-----------|------------|

 filed on 30.06.2011 by Dr. Debal Deb, on behalf of BASUDHA, Binodbati, P.O. Layekbandh, Bankura, 722157, West Bengal, a Farmers' variety of crop **Rice** [*Oryza sativa* L.] having denomination **BENA PHOOL**, 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 : **BENA PHOOL**

Applicant : Dr. Debal Deb

Address of the Applicant : BASUDHA, Binodbati, P.O. Layekbandh, Bankura, 722157, West Bengal

Nationality of Applicant : Indian

Application details

a. Number :

| | | | |
|------------|-------------|-----------|------------|
| F87 | OS93 | 11 | 327 |
|------------|-------------|-----------|------------|

b. Date of receipt : 30.06.2011

C. Date of acceptance : 30.06.2011

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

Denomination : **BENA PHOOL**

Type of Variety : Farmers' variety

Classification of Variety : Typical

Previously proposed Denomination : Not applicable

Name of Parental Material : NA

Name of Reference Varieties : **Nidhi**

Variety Description:

| A. Group Characteristics | Remarks measured values, example varieties, etc. |
|--|---|
| Basal leaf: Sheath colour | Green to uniform purple |
| Time of heading (50% of plants with panicles) | Medium |
| Stem: Length (excluding panicles; excluding floating rice) | Very short to short |
| Decorticated grain: Length | Medium |
| Decorticated grain: Shape (in lateral view) | Long slender |
| Decorticated grain: Colour | Light brown |
| Endosperm: Content of amylose | Medium |
| Decorticated grain: Aroma | Absent |

B. Distinct Characteristics:

BENA PHOOL has distinguishing characters like awns are absent and width of decorticated grains are medium.

C. Reference varieties:

Nidhi has distinguishing characters like awns are present and width of decorticated grains are narrow.

| | |
|--|-----|
| D. Date of commercialization of the variety | --- |
|--|-----|

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

05. Application No.

| | | | |
|------------|-------------|-----------|------------|
| F51 | OS55 | 11 | 230 |
|------------|-------------|-----------|------------|

 filed on 19.04.2011 by Dr. Debal Deb, on behalf of BASUDHA, Binodbati, P.O. Layekbandh, Bankura, 722157, West Bengal, a Farmers' variety of crop **Rice** [*Oryza sativa* L.] having denomination **NAGRA**, 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 : **NAGRA**

Applicant : Dr. Debal Deb

Address of the Applicant : BASUDHA, Binodbati, P.O. Layekbandh, Bankura, 722157, West Bengal

Nationality of Applicant : Indian

Application details

a. Number :

| | | | |
|------------|-------------|-----------|------------|
| F51 | OS55 | 11 | 230 |
|------------|-------------|-----------|------------|

b. Date of receipt : 19.04.2011

C. Date of acceptance : 23.05.2011

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

Denomination : **NAGRA**

Type of Variety : Farmers' variety

Classification of Variety : Typical

Previously proposed Denomination : Not applicable

Name of Parental Material : NA

Name of Reference Varieties : **Mandya Vijaya**

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 panicles; excluding floating rice) | Very short |
| Decorticated grain: Length | Short |
| Decorticated grain: Shape (in lateral view) | Medium slender |
| Decorticated grain: Colour | Red |
| Endosperm: Content of amylose | Medium |
| Decorticated grain: Aroma | Absent |

B. Distinct Characteristics:

NAGRA has distinguishing characters like medium amylose content in endosperm, anthocyanin colouration is absent in lemma tip, and straw colour of sterile lemma.

C. Reference varieties:

Mandya Vijaya has distinguishing characters like high amylose content in endosperm, weak anthocyanin colouration in lemma tip, and gold colour of sterile lemma.

| | |
|--|-----|
| D. Date of commercialization of the variety | --- |
|--|-----|

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

06. Application No.

| | | | |
|------------|-------------|-----------|------------|
| F32 | OS36 | 11 | 210 |
|------------|-------------|-----------|------------|

 filed on 13.04.2011 by Director Agriculture and food production, Govt of Odisha, Bhubaneswar, 751001 on behalf of **Shri Chemu Munduli, Talagadala, Block- Dasamantapur, Dist- Koraput, Odisha,** a Farmers' variety of crop **Rice** [*Oryza sativa* L.] having denomination **NINI**, 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 : **NINI**

Applicant : Shri Chemu Munduli

Address of the Applicant : Talagadala, Block- Dasamantapur, Dist- Koraput, Odisha

Nationality of Applicant : Indian

Application details

a. Number :

| | | | |
|------------|-------------|-----------|------------|
| F32 | OS36 | 11 | 210 |
|------------|-------------|-----------|------------|

b. Date of receipt : 13.04.2011

C. Date of acceptance : 23.05.2011

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

Denomination : **NINI**

Type of Variety : Farmers' variety

Classification of Variety : Typical

Previously proposed Denomination : Not applicable

Name of Parental Material : NA

Name of Reference Varieties : **IET 8116**

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 panicles; excluding floating rice) | Medium |
| Decorticated grain: Length | Short |
| Decorticated grain: Shape (in lateral view) | Short bold |
| Decorticated grain: Colour | Variegated brown |
| Endosperm: Content of amylose | Medium |
| Decorticated grain: Aroma | Present |

B. Distinct Characteristics:

NINI has distinguishing characters like medium amylose content in endosperm and aromatic decorticated grains.

C. Reference varieties:

IET 8116 has distinguishing characters like high amylose content in endosperm and non aromatic decorticated grains.

| | |
|--|-----|
| D. Date of commercialization of the variety | --- |
|--|-----|

PUBLIC NOTICE

Sub: Notice is given under Rule 29 (8 and 9) of the PPV & FR Rules, 2003.

As a requirement under Rule 29 (8 and 9) of the PPV & FR Rules, 2003, it is hereby informed that the specific DUS test guideline for Ber (*Ziziphus mauritiana* Lamk.), is hereby published in 'Plant Variety Journal of India', Vol. 07, No. 09, September 02, 2013. Interested parties may read these guidelines and act accordingly.

Sd/-
MANOJ SRIVASTAVA
REGISTRAR

Indian Jujube (Ber) (Ziziphus mauritiana Lamk.)

I. Subject

These test guidelines shall apply to all varieties and hybrids of *Ber (Ziziphus mauritiana Lamk.)*.

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 applicants or his/her nominee/assignee during August-September shall be 07 (seven) for each DUS Test Centre. 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 03 months from the date of budding (propagated through shield or 'T' budding) on the *Z. rotundifolia* Lamk. rootstock commonly known as *bordi* and raised in the polythene bags (25 cm x 10 cm size) with potting mixture (2:2:1 v/v of loam soil, compost and fine sand).
4. 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 given.

III. Conduct of tests

1. 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. 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.

2. 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.
3. 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 a minimum, each test shall include five plants per location, planted at DUS test centre, with a spacing of 4m x 4m.
4. Plant and fruit characters will be assessed to include two similar harvest seasons.
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 3 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 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) 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. 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 thorn should be recorded in the middle of tertiary branches.
4. Observations on the mature fruit should be recorded when fruit is ready for harvesting.
5. For assessment of all colour characteristics, the Royal Horticultural Society (RHS) colour chart shall be used.

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.

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

- a. Growth habit (Characteristic 1)
- b. Leaf: Shape (Characteristic 5)
- c. Fruit maturity group (Characteristic 14)

- d. Mature fruit: Shape (Characteristic 18)
- e. Mature fruit: Colour (Characteristic 22)
- f. Pulp texture (Characteristic 24)
- g. Stone shape (Characteristic 28)

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 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 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 of a number 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, thorn and leaf characters should be recorded three months after pruning, when canopy attains its characteristic shape. 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.

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

c) Observations on the mature fruit and stone should be recorded when fruit is ready for harvesting.

VII. Table of characteristics

| S. No. | Characteristics | States | Notes | Example variety | Stage of observation | Type of assessment |
|-----------------|---|---|---------------------|--|----------------------|--------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. (* (+) | Growth Habit | Erect Semi-erect Spreading | 1 3 5 | Tikadi Chhuhara Gola | a | VG |
| 2. (+) | Shoot surface | Smooth Tomentose | 3 5 | Tikadi Gola | a | VG |
| 3. (+) | Leaf: Apex | Acute Obtuse | 3 5 | Jogia Umran | a | VG |
| 4. (+) | Leaf: Base | Acute Cordate Round Oblique | 1 2 3 4 | Dharki No. 1 Mehrun Mundia Kaithali | a | VG |
| 5. (* (+) | Leaf: Shape | Ovate Oval Cordate Obovate | 1 3 5 7 | Safeda Rohtak Gola Kaithali Kismis | a | VG |
| 6. (+) | Leaf: Curving | Absent Present | 1 9 | Tikadi Umran | a | VG |
| 7. (+) | Leaf: Pubescence on lower surface | Smooth Sparsely tomentose Densely tomentose | 1 3 5 | Tikadi Banarasi Karaka Seb | a | VG |
| 8. (+) | Leaf blade: Length (cm) | Short (<7) Medium (7-9) Long (>9) | 3 5 7 | Illaichi Banarasi Pewandi Mundia | a | MS |
| 9. (+) | Leaf blade: Width (cm) | Narrow (<6) Medium (6-7) Broad (>7) | 3 5 7 | Tikadi ZG-3 Mundia | a | MS |
| 10. | Branch: Thorniness | Less Medium High | 3 5 7 | Illaichi Chhuhara Tikadi | a | VG |
| 11. (+) | Thorn: Shape | All Curved Alternate Curved | 3 5 | Mehrun Gola | a | VG |
| 12. | Thorns | Non- | 1 | Kaithali | a | VG |

| | | | | | | |
|------------------|---|--|----------------------------|---|---|----|
| | persistence: Cauducous | Persistent(Absent) Persistent(Present) | 9 | Banarasi Pewandi | | |
| 13. | <u>Immature fruit:</u> Anthocyanin blush | Absent Present | 1 9 | Chhuhara Kathaphal | b | VG |
| 14. (* (*) | Fruit maturity group | Early Mid Late | 3 5 7 | Gola Seb Mehrun | c | VG |
| 15. (+) | <u>Bearing habit:</u> <u>Bunching</u> | Absent Present | 1 9 | Umran Illaichi | c | VG |
| 16. (+) | <u>Fruit cracking</u> | Absent Present | 1 9 | Gularvasi Gola | c | VG |
| 17. (+) | <u>Fruit shape:</u> <u>Apex</u> | Flat Round Pointed | 1 3 5 | Illaichi Umran Banarasi Pewandi | c | VG |
| 18. (* (+) | <u>Mature Fruit:</u> <u>Shape</u> | Oblong Oval Ovate Oblate Round Falcate | 1 2 3 4 5 6 | Mehrun Chhuhara ZG-3 Illaichi Gola Narma | c | VG |
| 19. (+) | <u>Mature fruit:</u> <u>Length (mm)</u> | Short (<20) Medium (20-30) Long (>30) | 3 5 7 | Dharki No. 1 Mehrun Chhuhara | c | MS |
| 20. (+) | <u>Mature fruit:</u> <u>Width (mm)</u> | Narrow (<15) Medium (15-25) Broad (>25) | 3 5 7 | Dharki No. 1 Illaichi Gola | c | MS |
| 21. | Mature fruit: Weight (g) | Very Low (<5) Low (5-10) Medium (11-20) High (21-30) Very High (>30) | 1 3 5 7 9 | Mehrun Illaichi Seb Umran Sanaur-5 | c | MS |
| 22. (* | <u>Mature fruit:</u> <u>Colour</u> | Yellow (12A) Greenish Yellow (154A) Chocolate Brown (46B) | 3 5 7 | Gola ZG-3 Tikadi | c | VG |
| 23. (+) | <u>Fruit surface</u> | Plain Ridged & Wart | 3 5 | Gola Umran | c | VG |

| | | | | | | |
|------------------|---|--|---------------------------------------|--|---|----|
| 24. (* (+) | Pulp texture | Soft Medium Hard | 3 5 7 | Chhuhara ZG-3 Umran | c | VG |
| 25. (+) | Pulp cavity | Absent Present | 1 9 | Sanaur-5 Chhuhara | c | VG |
| 26. (+) | Pulp cavity: Stylar end | Absent Present | 1 9 | Gola Chhuhara | c | VG |
| 27. (+) | Pulp cavity: Stem end | Absent Present | 1 9 | Tikadi Gularvasi | c | VG |
| 28. (+) | Stone shape: Apex | Obtuse Acute | 3 5 | Seb Kaithli | c | VG |
| 29. (* (+) | Stone shape | Oblong Oval Spindle Club Falcate | 1 2 3 4 5 | Seb Gola Sanaur-5 Chhuhara Chhuhara Bawal | c | VG |
| 30. (+) | Stone: Length (mm) | Short (<15) Medium (15-25) Long (>25) | 3 5 7 | Illaichi Gola ZG-3 | c | MS |
| 31. (+) | Stone: Width (mm) | Narrow (<7) Medium (7-9) Broad (>9) | 3 5 7 | Illaichi Umran Seb | c | MS |
| 32. | Stone: Weight (g) | Very Low (<1.0) Low (1-2) Medium (2.1-3) High (3.1-4) Very High (>4) | 1 3 5 7 9 | Illaichi Gola ZG-3 Safeda Selection Sanaur-5 | c | MS |
| 33. (+) | Pulp: stone ratio | Very Low (<5) Low (5-10) Medium (11-15) High (16-20) Very High (>20) | 1 3 5 7 9 | Mehrun ZG-3 Gola Chhuhara Kala Gola | c | MS |
| 34. (+) | Pulp TSS (°Brix) | Less (<10) Medium (10-20) High (>20) | 3 5 7 | Dharki No.1 Gola Reshmi | c | MS |
| 35. (+) | Pulp acidity (%) | Less (<0.3) Medium (0.3-0.5) High (>0.5) | 3 5 7 | Chhuhara Gola Chhuhara Bawal | c | MS |

| | | | | | | |
|------------|--|------------------|---|------------------|---|----|
| 36. (+) | <u>Ascorbic acid</u> content of pulp (mg/100g FW) | Very Less (<50) | 1 | Kala Gola | c | MS |
| | | Less (50-100) | 3 | Gola | | |
| | | Medium (101-150) | 5 | Banarasi Pewandi | | |
| | | High (150-200) | 7 | Sanaur-5 | | |
| | | Very High (>200) | 9 | Lakhan | | |

VIII. Explanation for the Table of Characteristics

Characteristic 1: Growth habit



1
Erect



3
Semi-erect



5
Spreading

Characteristic 2: Shoot surface



3
Smooth



5
Tomentose

Characteristic 3: Leaf: Apex



3
Acute



5
Obtuse

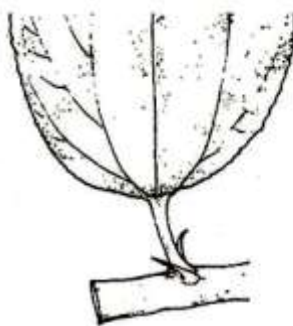
Characteristic 4: Leaf: Base



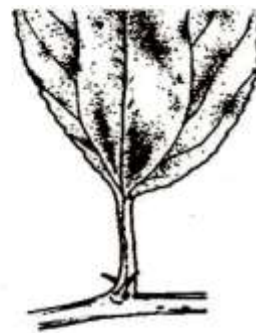
1
Acute



2
Cordate

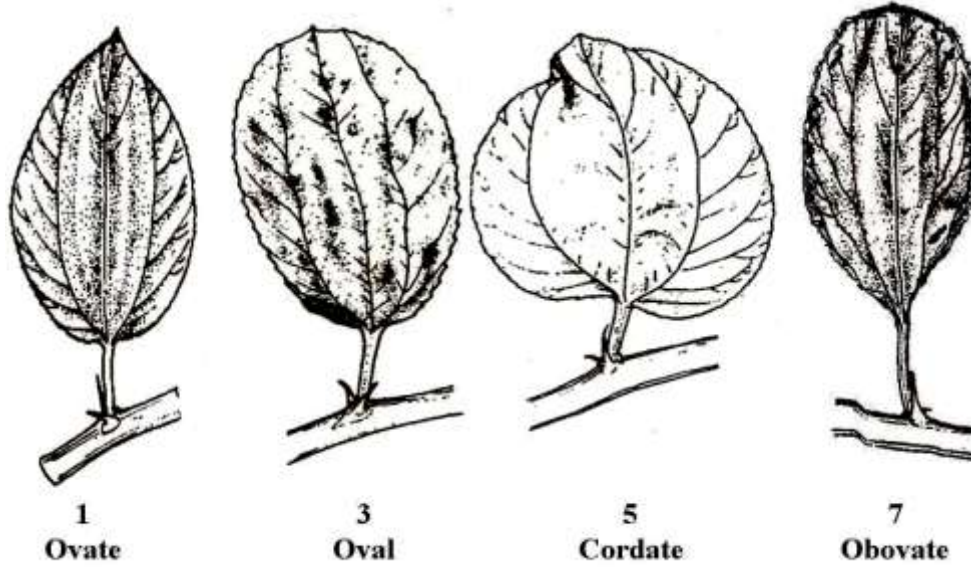


3
Round

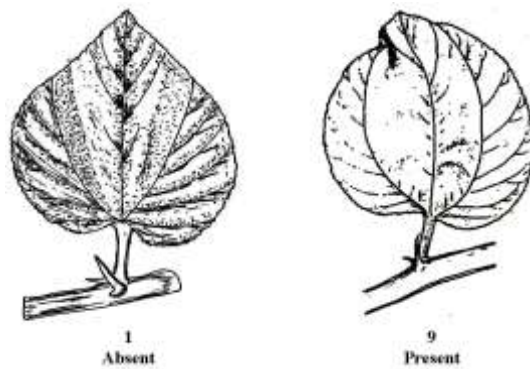


4
Oblique

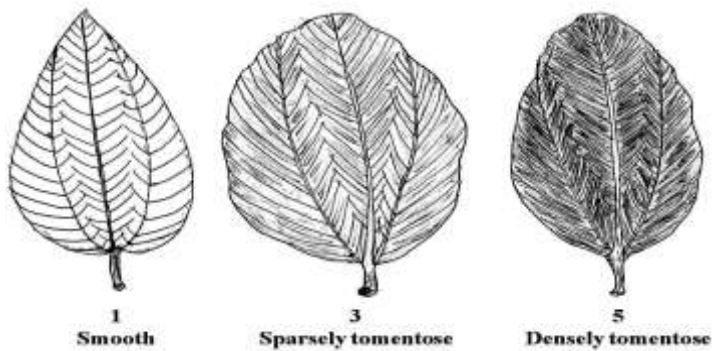
Characteristic 5: Leaf: Shape



Characteristic 6: Leaf: Curving

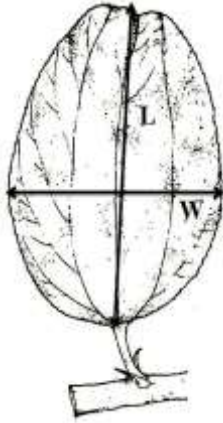


Characteristic 7: Leaf: Pubescence on lower surface



Characteristic 8: Leaf blade: Length (L)

Characteristic 9: Leaf blade: Width (W)



Characteristic 11: Thorn: Shape

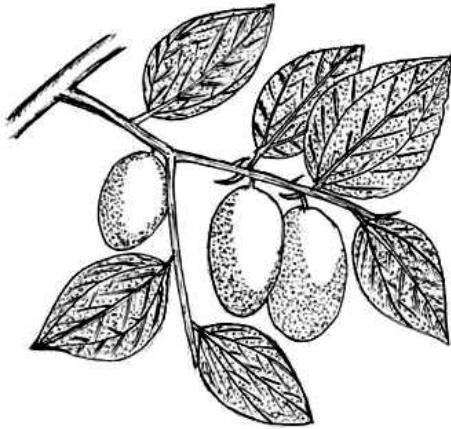


3
All Curved

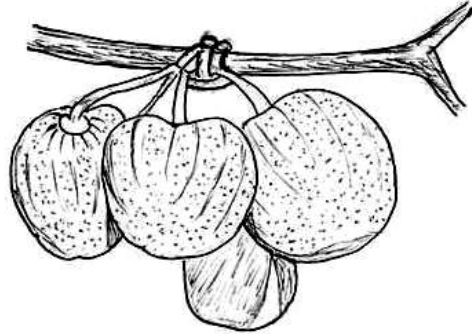


5
Alternate Curved

Characteristics 15: Bearing habit: Bunching

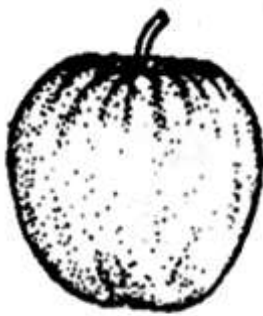


1
Absent



9
Present

Characteristic 16: Fruit cracking

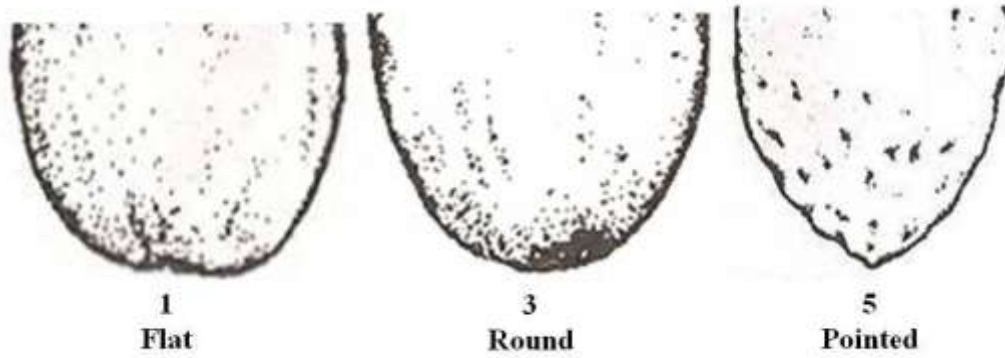


1
Absent

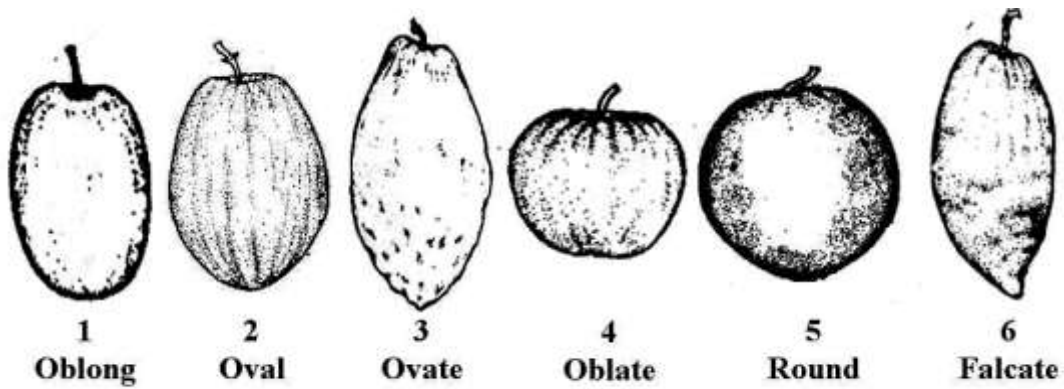


9
Present

Characteristic 17: Fruit shape: Apex

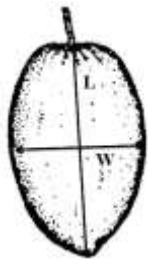


Characteristic 18: Mature Fruit: Shape



Characteristic 19: Mature Fruit: Length

Characteristic 20: Mature Fruit: Width



Characteristic 23: Fruit Surface



3
Plain

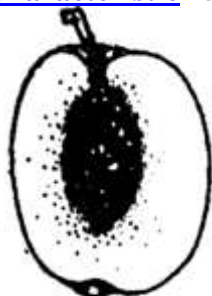


5
Ridged and
wart

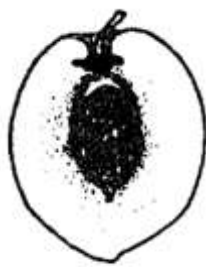
Characteristic 24: Pulp texture

Pulp texture shall be determined by eating the fresh fruits, which shall involve senses of touch and pressure. With the sensory method, the evaluation shall include various steps inside the mouth, from the first bite through mastication, swallowing and residual feel in the mouth and throat.

Characteristic 25: Pulp cavity

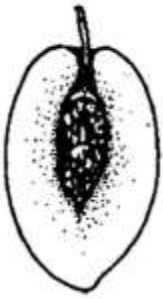


1
Absent



9
Present

Characteristic 26: Pulp cavity: Stylar end

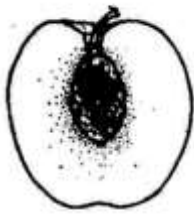


1
Absent

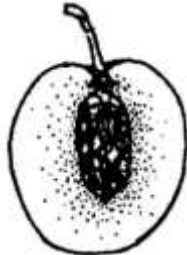


9
Present

Characteristic 27: Pulp cavity: Stem end



1
Absent



9
Present

Characteristic 28: Stone Shape: Apex

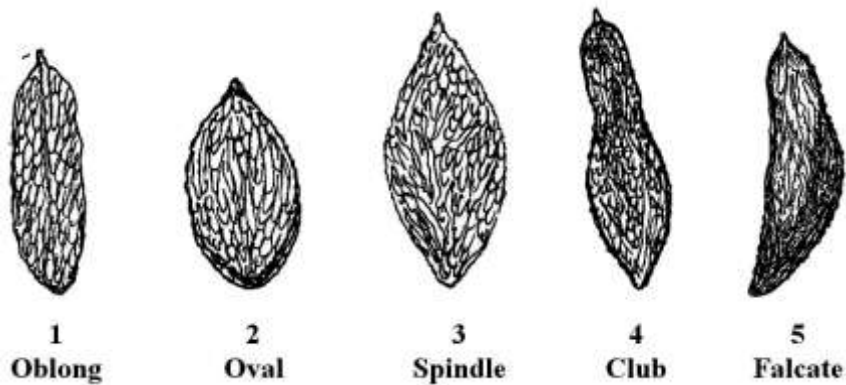


3
Obtuse



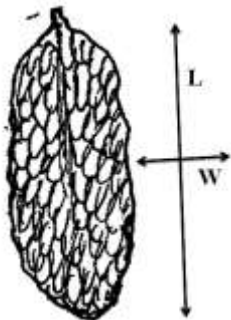
5
Acute

Characteristic 29: Stone Shape



Characteristic 30: Stone: Length

Characteristic 31: Stone: Width



Characteristic 33: Pulp: Stone ratio

The stone shall be removed from the fruit and pulp & stone shall be weighed separately. The Pulp: Stone ratio shall be determined by following formulae;

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

Characteristic 34: Pulp 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).

Characteristic 35: Pulp acidity (%)

The pulp acidity contents of the samples shall be determined by visual titration method as suggested by Ranganna (1986) with slight modification. For estimation of total acidity in samples, twenty gram (20 g) fruit pulp shall be blended and mixed thoroughly. Later, it shall be filtered and transferred to volumetric flask to make up the volume to 100 ml. Ten-milliliter aliquot of the sample prepared as above shall be titrated with 0.1 N sodium hydroxide (NaOH) to an endpoint of pH 8.1. The content shall be expressed as percentage of citric acid.

$$\text{Acidity (\%)} = \frac{\text{Titre value} \times \text{Normality of alkali} \times \text{Volume made up} \times \text{Equivalent weight of acid (i.e. 64)} \times 100}{\text{Volume of sample taken for estimation} \times \text{Weight or volume of sample taken} \times 1000}$$

Characteristic 36: Ascorbic acid content of pulp (mg/100g FW)

The ascorbic acid contents of the samples shall be determined by visual titration method of reduction of 2, 6-dichlorophenol–indophenol dye as per the method suggested by Ranganna (1986). Results shall be expressed as mg/100 g FW.

Reagents

(a) Ascorbic acid standard: Weigh accurately 100 mg of L-ascorbic acid and make up to 100 ml with 3% HPO₃. Dilute 10 ml to 100 ml with 3% HPO₃ (1 ml = 0.1 mg of ascorbic acid).

(b) Dye solution: Dissolve 50 mg of the sodium salt of 2, 6-dichlorophenol–indophenol (C₁₂H₆C₁₂NNaO₂.2H₂O) in approximately 150 ml of hot glass distilled water containing 42 mg of sodium bicarbonate (NaHCO₃). Cool and dilute with distilled water to 200 ml.

For standardization of dye, five ml each of standard ascorbic acid solution and HPO₃ shall be taken together and shall be titrated with the dye solution to a pink colour, which should persist for 15 sec. The dye factor (mg of ascorbic acid/ ml of dye) shall be calculated using following formulae;

$$\text{Dye factor} = \frac{0.5}{\text{Titre}}$$

For estimation of ascorbic acid in fruit sample, five grams of pulp shall be taken and blended with 3% meta-phosphoric acid (HPO₃). The final volume shall be made upto 100 ml with HPO₃ followed by centrifugation or filtration. Two ml aliquat of the HPO₃ extract of the pulp shall be taken titrated with standard dye to a pink end-point, which should persist for at least

15 sec. Calculation of ascorbic acid content of the sample shall be done from the following formulae;

$$\text{Ascorbic acid (mg/100 g)} = \frac{\text{Titre} \times \text{Dye factor} \times \text{Volume made up} \times 100}{\text{Aliquot of extract taken for estimation} \times \text{Weight of sample taken for estimation}}$$

XI. DUS Test Centres

Nodal Centre

Central Institute for Arid Horticulture,
Beechwal, Bikaner-334 006, Rajasthan

Other Centre

MPKV, Rahuri (subject to confirmation of
PPV&FRA)

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. 71 of 2013

(1) Registration Number and date of grant:- **71 of 2013 & 30/04/2013**

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

Maharashtra Hybrid Seeds Company Limited, Resham Bhawan, 4th floor, 78, Veer Nariman Road, Mumbai-400020 (M.S.)

(3) Denomination of the variety:- **MRC 6025 Bt**

(4) Name of:

Family: Malvaceae

Genus: *Gossypium*

Species: *hirsutum*

Variety and common name: **Extant/hybrid/cotton**

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

C 5055 Bt x C 5187 Bt

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

Yellow pollen 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. 72 of 2013

(1) Registration Number and date of grant:- **72 of 2013 & 30/04/2013**

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

Maharashtra Hybrid Seeds Company Limited, Resham Bhawan, 4th floor, 78 Veer Nariman Road, Mumbai-400020 (M.S.)

(3) Denomination of the variety:- **MRC 7326**

(4) Name of:

Family: *Malvaceae*

Genus: *Gossypium*

Species: *hirsutum*

Variety and common name: **Extant (VCK)/hybrid/cotton**

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

C 5055 BG II x C 314 Bt

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

Sparse leaf hairiness

(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. 73 of 2013

(1) Registration Number and date of grant:- **73 of 2013 & 30/04/2013**

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

Maharashtra Hybrid Seeds Company Limited, Resham Bhawan, 4th floor, 78 Veer Nariman Road, Mumbai-400020 (M.S.)

(3) Denomination of the variety:- **P1628**

(4) Name of:

Family: Poaceae

Genus: *Oryza*

Species: *sativa*

Variety and common name: **New/typical/rice**

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

Selection from PM1293

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

Strong pubescence of blade surface on leaf, medium length of main axis of panicle and straw coloured sterile 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. 74 of 2013

(1) Registration Number and date of grant:- **74 of 2013 & 30/04/2013**

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

Maharashtra Hybrid Seeds Company Limited, Resham Bhawan, 4th floor, 78 Veer Nariman Road, Mumbai-400020 (M.S.)

(3) Denomination of the variety:- **P 1523**

(4) Name of:

Family: Poaceae

Genus: *Oryza*

Species: *sativa*

Variety and common name: **New/typical/rice**

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

PMS 33 x PM 47

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

Yellowish colour of tip of lemma and narrow decorticated grain width.

(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. 75 of 2013

(1) Registration Number and date of grant:- **75 of 2013 & 01/05/2013**

(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-110114**

(3) Denomination of the variety:- **JGL-1798**

(4) Name of:

Family: Poaceae

Genus: *Oryza*

Species: *sativa*

Variety and common name: **New/hybrid/maize**

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

Samba Mahsuri x Kavya

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

Strong leaf pubescence of blade surface, late time of heading, weak spikelet density of pubescence of lemma, semi-erect flag leaf attitude of blade, deflexed panicle curvature of main axis, absent panicle awns, mostly exerted panicle exertion, medium decorticated grain length, medium slender decorticated grain shape etc.

(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.

JGL-1798 has been commercialized since February 2004.

Certificate of Registration No. 76 of 2013

(1) Registration Number and date of grant:- **76 of 2013 & 01/05/2013**

(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-110114**

(3) Denomination of the variety:- **Anjali (IET 16430) (RR-347-166)**

(4) Name of:

Family: Poaceae

Genus: *Oryza*

Species: *sativa*

Variety and common name: **Extant/typical/rice**

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

RR 19-2

RR 149-1129

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

Erect flag leaf blade, medium spikelet density of pubescence of lemma, medium lemma anthocyanin colouration of apex, short stem length, semi erect attitude of flag leaf blade, brown spikelet colour of tip of lemma, semi erect to spreading attitude of panicle attitude of branches etc.

(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.

Anjali (IET 16430) (RR-347-166) has been commercialized since September 2002.

Certificate of Registration No. 77 of 2013

(1) Registration Number and date of grant:- **77 of 2013 & 01/05/2013**

(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-110114**

(3) Denomination of the variety:- **JGL-384**

(4) Name of:

Family: Poaceae

Genus: *Oryza*

Species: *sativa*

Variety and common name: **Extant/typical/rice**

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

Samba Mahsuri x Kavya

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

Strong leaf pubescence of blade surface, late time of heading, semi erect flag leaf attitude of blade, weak spikelet density of pubescence of lemma, very short- stem length, medium panicle length of main axis, deflexed panicle curvature of main axis, absence of panicle awns, semi erect to spreading panicle attitude of branches etc.

(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.

JGL-384 has been commercialized since February 2004.

Certificate of Registration No. 78 of 2013

(1) Registration Number and date of grant:- **78 of 2013 & 01/05/2013**

(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-110114**

(3) Denomination of the variety:- **Indur Samba (PDR-763)**

(4) Name of:

Family: Poaceae

Genus: *Oryza*

Species: *sativa*

Variety and common name: **Extant/typical/rice**

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

Samba Mahsuri x Surekha

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

Late time of heading, short panicle length of main axis, drooping panicle curvature of main axis, fully exerted panicles, narrow decorticated grain width and medium 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.

Indur Samba (PDR-763) has been commercialized since May 1998.

Certificate of Registration No. 79 of 2013

(1) Registration Number and date of grant:- **79 of 2013 & 01/05/2013**

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

**Tamil Nadu Agricultural University,
Coimbatore-641003**

(3) Denomination of the variety:- **VRI (Gn) 7**

(4) Name of:

Family: Fabaceae

Genus: *Arachis*

Species: *hypogea*

Variety and common name: **Extant/hybrid/groundnut**

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

TMV 1 x JL 24

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

Erect plant growth habit, medium leaflet size, dark green leaflet colour, alternate flower arrangement on side branches, simple inflorescence, medium pod constriction, medium pod reticulation, 3 seeded pod number of kernels, rose kernel colour of testa, high kernel weight of 100 kernels, high kernel oil percentage.

(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.

VRI (Gn) 7 has been commercialized since September 2011.

Certificate of Registration No. 80 of 2013

- (1) Registration Number and date of grant:- **80 of 2013 & 02/05/2013**
- (2) Name and address of applicant or breeder in whose name the certificate has been issued or registered:-

**Rajmata Vijayraje Scindia Krishi Vidyalaya, Opp. Mela
Ground Race Course Road, Gwalior-474002 (M.P)**

- (3) Denomination of the variety:- **Jawahar Kapas-35 (JK-35)**

- (4) Name of:

Family: Malvaceae
Genus: *Gossypium*
Species: *hirsutum*

Variety and common name: **Extant/typical/cotton**

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

CMSH-6 x RCH-2

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

Yellow flower petal colour, small boll weight, of seed cotton/boll, dense seed fuzz along with white colour, high gining percentage, medium long fibre length, weak fibre strength, good fibre uniformity and very good fibre maturity.

- (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.

Jawahar Kapas-35 (JK-35) has been commercialized since July 2007.

Certificate of Registration No. 81 of 2013

(1) Registration Number and date of grant:- **81 of 2013 & 02/05/2013**

(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-110114**

(3) Denomination of the variety:- **Pusa Basmati 1121**

(4) Name of:

Family: Poaceae
Genus: *Oryza*
Species: *sativa*

Variety and common name: **Extant/typical/rice**

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

Pusa 614-1-2/ Pusa 614-2-4-3

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

Absence of pubescence of leaf blade surface, semi erect attitude of flag leaf blade, very short length of stem, long length of panicle main axis, semi straight curvature of main axis, yellowish colour of tip of lemma of spikelet, semi erect to spreading attitude of panicle branches and medium content of amylose.

(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.

Pusa Basmati 1121 has been commercialized since November 2005.

Certificate of Registration No. 82 of 2013

(1) Registration Number and date of grant:- **82 of 2013 & 16/05/2013**

(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-110114**

(3) Denomination of the variety:- **Pusa Ankur (DBSR-91)**

(4) Name of:

Family: Solanaceae

Genus: *Solanum*

Species: *melongena*

Variety and common name: **Extant/typical/brinjal**

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

GR x 91-2

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

Presence of stem anthocyanin colouration, medium stem intensity of anthocyanin colouration, sinuate leaf margin, purple leaf colour of vein, light leaf intensity of colour of veins, dark fruit intensity of purple colour of skin, absent fruit patches, purple fruit colour of calyx etc.

(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.

Pusa Ankur (DBSR-91) has been commercialized since October 1999.

Certificate of Registration No. 83 of 2013

(1) Registration Number and date of grant:- **83 of 2013 & 16/05/2013**

(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-110114**

(3) Denomination of the variety:- **Pusa Meghna (DC/98-2)**

(4) Name of:

Family: Brassicaceae
Genus: *Brassica*
Species: *oleracea var. botrytis*

Variety and common name: **Extant/typical/cauliflower**

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

Selection from local heterozygous material

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

**Horizontal leaf attitude, short leaf length, narrow leaf width, light green leaf colour,
medium curd compactness, short flower stalk 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.

Pusa Meghna (DC/98-2) has been commercialized since May 2004.

Certificate of Registration No. 84 of 2013

(1) Registration Number and date of grant:- **84 of 2013 & 16/05/2013**

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

**Rasi Seeds Pvt. Ltd., 273, Kamarajarar Road,
Attur salem (dt.)-636102 Tamil Nadu**

(3) Denomination of the variety:- **RC 86**

(4) Name of:

Family: Malvaceae
Genus: *Gossypium*
Species: *hirsutum*

Variety and common name: **Extant (VCK)/typical/cotton**

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

RC 04 x RC 05

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

For smooth plant stem hairiness and extra long fibre 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. 85 of 2013

(1) Registration Number and date of grant:- **85 of 2013 & 16/05/2013**

(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-110114**

(3) Denomination of the variety:- **HM-8 (HKH-1188)**

(4) Name of:

Family: Poaceae

Genus: *Zea*

Species: *mays*

Variety and common name: **New/hybrid/maize**

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

HKI-1344 x HKI-1348-6-2

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

Curved tassel attitude of lateral branches, presence of ear anthocyanin colouration of silks, flint type of grain in middle third of ear, orange colour of top of grain of ear.

(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. 86 of 2013

(1) Registration Number and date of grant:- **86 of 2013 & 16/05/2013**

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

**Hytech Seed India Pvt. Ltd., B-2-311/E/1, Mithila Nagar
Road No. 10, Banjara Hills, Hyderabad-500034 (A.P)**

(3) Denomination of the variety:- **HT-CO-5101**

(4) Name of:

Family: Poaceae

Genus: *Zea*

Species: *mays*

Variety and common name: **New/hybrid/maize**

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

RR 024 x CC 046

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

Straight tassel attitude of lateral branches.

(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. 87 of 2013

(1) Registration Number and date of grant:- **87 of 2013 & 16/05/2013**

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

**Mahatma Phule Krishi Vidyapeeth (MPKV),
Rahuri-413722 (M.S.)**

(3) Denomination of the variety:- **Phule-492 (RHH-0492)**

(4) Name of:

Family: Poaceae
Genus: *Zea*
Species: *mays*

Variety and common name: **Extant/hybrid/cotton**

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

RHC-003 x RHC-004

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

Cup leaf appearance, dense plant stem hairness, pointed boll prominence of tip, white seed fuzz, small seed index, medium gining percentage, medium fibre length, fine fibre fineness and good fibre uniformity.

(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.

Phule-492 (RHH-0492) has been commercialized since September 2002.

Certificate of Registration No. 88 of 2013

(1) Registration Number and date of grant:- **88 of 2013 & 17/05/2013**

(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-110114**

(3) Denomination of the variety:- **GHB-732 (MH-1307)**

(4) Name of:

Family: Poaceae
Genus: *Pennisetum*
Species: *glaucum*

Variety and common name: **Extant/typical/pearl millet**

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

ICMA 96222 x J-2340

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

Medium plant height, late time of spike emergence, lauceolate spike shape, compact spike density and purple anther 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.

GHB-732 (MH-1307) has been commercialized since January 2008.

Certificate of Registration No. 89 of 2013

(1) Registration Number and date of grant:- **89 of 2013 & 17/05/2013**

(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-110114**

(3) Denomination of the variety:- **GHB-757 (MH-1328)**

(4) Name of:

Family: Poaceae
Genus: *Pennisetum*
Species: *glaucum*

Variety and common name: **Extant/typical/pearl millet**

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

ICMA 92777 x J-2467

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

Early time of spike emergence, medium plant length, compact spike density, cylindrical spike shape, purple anther 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.

GHB-757 (MH-1328) has been commercialized since January 2008.

Certificate of Registration No. 90 of 2013

(1) Registration Number and date of grant:- **90 of 2013 & 20/05/2013**

(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-110114**

(3) Denomination of the variety:- **DRSF-108**

(4) Name of:

Family: *Asteraceae*

Genus: *Helianthus*

Species: *annus*

Variety and common name: **Extant/typical/sunflower**

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

Selection from Genepool

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

Green leaf colour, absence of leaf blistering, absence of seed coat steripes.

(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.

DRSF-108 has been commercialized since February 2005.

NOTICE

Sub : Request to furnish the details of application for registration of parental lines of extant varieties notified under section 5 of Seeds Act, 1966.

All the applicants who have applied or registered their varieties under the category of extant varieties notified under section 5 of Seeds Act, 1966 may kindly furnish the following details forthwith:

1. Whether parental lines of extant varieties notified under section 5 of Seeds Act, 1966 has been registered or applied for registration with the PPV&FR Authority.
2. If yes, their acknowledgment number and under which category the parental lines of extant varieties notified under section 5 of Seeds Act, 1966 have been applied.

Sd/-
MANOJ SRIVASTAVA
REGISTRAR