Plant Variety Journal of India, Vol. 05, No. 09
September 01, 2011 / Bhadrapada Shukla 04, Saka 1932
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. [N14 SB14 10 147] filed on 03/06/2010 by M/s Kavari Seed Company Limited, # 513 – B, 5th Floor, Minerva Complex, S. D. Road, Secunderabad – 500003, Andhra Pradesh, India on behalf of ------NA----- for a New plant variety of crop Sorghum [Sorghum bicolor L. Moench] having denomination KSMS 263, 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----.


Passport data of the variety KSMS 263:

Applicant : M/s Kavari Seed Company Limited
Address of the Applicant : # 513 – B, 5th Floor,
Minerva Complex, S. D. Road,
Secunderabad – 500003,
Andhra Pradesh, India

Nationality of Applicant : Indian
Application details
a. Number : [N14 SB14 10 147]
b. Date of receipt : 03/06/2010
c. Date of acceptance : 21/07/2011
Crop (Taxonomical Lineage) : Sorghum [Sorghum bicolor L. Moench]
Denomination : KSMS 263
Type of Variety : New
Classification of Variety : Typical
Previously proposed denomination : Not applicable
Name of Parental Material : KSMS 263
Name of Reference Varieties : MS 27A and AKMS 14A

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kharif or Rabi adaptation</td>
<td>Kharif</td>
</tr>
<tr>
<td>Plant: Time of panicle emergence (50% of the plants with complete panicle emergence)</td>
<td>Early (CSH 14)</td>
</tr>
<tr>
<td>Plant: Total height at maturity</td>
<td>Medium (RS 673)</td>
</tr>
<tr>
<td>Panicle: Shape</td>
<td>Symmetric (CSH 9)</td>
</tr>
<tr>
<td>Caryopsis: Colour after threshing</td>
<td>Yellow orange (27B)</td>
</tr>
</tbody>
</table>

B. Distinct Characteristics:

KSMS 263 has distinguishing characters like presence of lemma arista formation, medium length of stigma, grayed orange colour of dry anther, yellow orange caryopsis colour after threshing.

C. Reference varieties:

1. MS 27A: It has distinguishing characters like absence of lemma arista formation, short length of stigma, yellow orange colour of dry anther, white caryopsis colour after threshing.

2. AKMS 14A: It has distinguishing characters like absence of lemma arista formation, short length of stigma, orange colour of dry anther, yellow white caryopsis colour after threshing.

D. Date of commercialization of the variety: Not commercialized.

E. Photographs: (See figure 01)

02. Application No. N17 SB17 10 150 filed on 03/06/2010 by M/s Kavari Seed Company Limited, # 513 – B, 5th Floor, Minerva Complex, S. D. Road, Secunderabad – 500003, Andhra Pradesh, India on behalf of -------NA----- for a New plant variety of crop
**Sorghum** [*Sorghum bicolor* L. Moench] having denomination **KSR 6194**, 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 KSR 6194:**

**Applicant** : M/s Kavari Seed Company Limited

**Address of the Applicant** : # 513 – B, 5th Floor,

Minerva Complex, S. D. Road,

Secunderabad – 500003,

Andhra Pradesh, India

**Nationality of Applicant** : Indian

**Application details**

<table>
<thead>
<tr>
<th>a. Number</th>
<th>N17</th>
<th>SB17</th>
<th>10</th>
<th>150</th>
</tr>
</thead>
</table>

b. Date of receipt : 03/06/2010 

c. Date of acceptance : 21/07/2011

**Crop (Taxonomical Lineage)** : Sorghum [*Sorghum bicolor* L. Moench]

**Denomination** : KSR 6194

**Type of Variety** : New

**Classification of Variety** : Typical

**Previously proposed denomination** : Not applicable

**Name of Parental Material** : KSR 6194

**Name of Reference Varieties** : C 43 and Indore 12

**Variety Description:**
<table>
<thead>
<tr>
<th><strong>A. Group Characteristics</strong></th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kharif or Rabi adaptation</td>
<td>Kharif</td>
</tr>
<tr>
<td>Plant: Time of panicle emergence (50% of the plants with complete panicle emergence)</td>
<td>Medium (CSH 16)</td>
</tr>
<tr>
<td>Plant: Total height at maturity</td>
<td>Short (2219 B)</td>
</tr>
<tr>
<td>Panicle: Shape</td>
<td>Symmetric (CSH 9)</td>
</tr>
<tr>
<td>Caryopsis: Colour after threshing</td>
<td>Yellow orange (27B)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>B. Distinct Characteristics:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>KSR 6194</strong> has distinguishing characters like white mid rib colour of leaf (5\textsuperscript{th} fully developed leaf), long length of flower with pedicle, grayed orange glume colour, large size of mark of grain germ.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>C. Reference varieties:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <strong>C-43</strong>: It has distinguishing characters like yellow green mid rib colour of leaf (5\textsuperscript{th} fully developed leaf), short length of flower with pedicle, yellow white glume colour, medium size of mark of grain germ.</td>
</tr>
<tr>
<td>2. <strong>AKMS 14A</strong>: It has distinguishing characters like yellow green mid rib colour of leaf (5\textsuperscript{th} fully developed leaf), medium length of flower with pedicle, yellow white glume colour, medium size of mark of grain germ.</td>
</tr>
</tbody>
</table>

| **D. Date of commercialization of the variety** | Not commercialized. |

| **E. Photographs:** (See figure 02) |

03. Application No. [E2 HA5 10 154] filed on 08/06/2010 by M/s Lakshmikumaran & Sridharan, B 6/10, Safdarjung Enclave, New Delhi-110029 on behalf of Syngenta India Limited, Amar Paradigm, S. No. 110/11/3, Baner, Pune – 411045, Maharashtra, India for a extant (Variety of Common Knowledge) plant variety of crop Sunflower [*Helianthus annus* L.] having denomination SYN-SF-ARMONI, 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 SYN-SF-ARMONI:**

- **Applicant**: Syngenta India Limited
- **Address of the Applicant**: Amar Paradigm, S. No. 110/11/3, Baner, Pune – 411045, Maharashtra, India
- **Nationality of Applicant**: Indian

**Application details**

- **a. Number**: E2 HA5 10 154
- **b. Date of receipt**: 08/06/2010
- **c. Date of acceptance**: 21/07/2011

- **Crop (Taxonomical Lineage)**: Sunflower [*Helianthus annus* L.]
- **Denomination**: SYN-SF-ARMONI
- **Type of Variety**: Extant (Variety of Common Knowledge)
- **Classification of Variety**: Hybrid
- **Previously proposed denomination**: Not applicable
- **Name of Parental Material**: FS715 X FR83305
- **Name of Reference Varieties**: KBSH-1 and Sunbred-207

**Variety Description:**

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Medium (KBSH-1)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Medium (KBSH-42)</td>
</tr>
<tr>
<td>Plant: Height</td>
<td>Tall (KBSH-1)</td>
</tr>
</tbody>
</table>
Plant: Branching  |  Absent (KBSH-1)
Seed Coat: Stripes  |  Present (KBSH-1)

B. Distinct Characteristics:

SYN-SF-ARMONI has distinguishing characters like medium anthocyanin pigmentation of hypocotyl, medium time of flowering, cordate shape of leaf, green leaf colour, elongated shape of bract, half turned down head attitude, convex shape of grain side of head and tall plant height.

C. Reference varieties:

1. KBSH-1: It has distinguishing characters like absence of anthocyanin pigmentation of hypocotyl, medium time of flowering, rounded shape of leaf, dark green leaf colour, rounded shape of bract, turned down head attitude, flat shape of grain side of head and tall plant height.
2. Sunbred-207: It has distinguishing characters like absence of anthocyanin pigmentation of hypocotyl, early time of flowering, cordate shape of leaf, light green leaf colour, elongated shape of bract, turned down head attitude, flat shape of grain side of head and medium plant height.

D. Date of commercialization of the variety

Commercialized since 12/10/2007.

E. Photographs: (See figure 03a and b)

04. Application No. E3 HA6 10 155 filed on 08/06/2010 by M/s Lakshmikumaran & Sridharan, B 6/10, Safdarjung Enclave, New Delhi-110029 on behalf of Syngenta India Limited, Amar Paradigm, S. No. 110/11/3, Baner, Pune – 411045, Maharashtra, India for a extant (Variety of Common Knowledge) plant variety of crop Sunflower [Helianthus annuus L.] having denomination SYN-SF-275PR, 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----.

Passport data of the variety SYN-SF-275PR:

Applicant : Syngenta India Limited

Address of the Applicant : Amar Paradigm, S. No. 110/11/3,
Baner, Pune – 411045,
Maharashtra, India

Nationality of Applicant : Indian

Application details

a. Number : E3 HA6 10 155
b. Date of receipt : 08/06/2010
c. Date of acceptance : 21/07/2011

Crop (Taxonomical Lineage) : Sunflower [Helianthus annus L.]

Denomination : SYN-SF-275PR

Type of Variety : Extant (Variety of Common Knowledge)

Classification of Variety : Hybrid

Previously proposed denomination : Not applicable

Name of Parental Material : FS703 X RW666RM1

Name of Reference Varieties : KBSH-1 and Sunbred-207

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Medium (KBSH-1)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Medium (KBSH-42)</td>
</tr>
<tr>
<td>Plant: Height</td>
<td>Tall (KBSH-1)</td>
</tr>
<tr>
<td>Plant: Branching</td>
<td>Absent (KBSH-1)</td>
</tr>
<tr>
<td>Seed Coat: Stripes</td>
<td>Present (KBSH-1)</td>
</tr>
</tbody>
</table>

B. Distinct Characteristics:
SYN-SF-275R has distinguishing characters like medium anthocyanin pigmentation of hypocotyl, medium time of flowering, cordate shape of leaf, green leaf colour, many number of ray floret, elongated shape of bract, half turned down head attitude, convex shape of grain side of head and tall plant height.

C. Reference varieties:

1. **KBSH-1**: It has distinguishing characters like absence of anthocyanin pigmentation of hypocotyl, medium time of flowering, rounded shape of leaf, dark green leaf colour, medium number of ray floret, rounded shape of bract, turned down head attitude, flat shape of grain side of head and tall plant height.

2. **Sunbred-207**: It has distinguishing characters like absence of anthocyanin pigmentation of hypocotyl, early time of flowering, cordate shape of leaf, light green leaf colour, medium number of ray floret, elongated shape of bract, turned down head attitude, flat shape of grain side of head and medium plant height.

D. Date of commercialization of the variety

| Date of commercialization of the variety | Commercialized since 16/05/2005. |

E. Photographs: (See figure 04a and b)

05. Application No. | E4 | HA7 | 10 | 156 | filed on 14/06/2010 by Nusun Genetic Research Limited, 501, Subhan Sirisampada, Raj Bhavan Road, Somajiguda, Hyderabad – 500082, Andhra Pradesh, India on behalf of -----NA---- for a extant (Variety of Common Knowledge) plant variety of crop Sunflower [Helianthus annus L.] having denomination VSFH-2006 (FAME), 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 VSFH-2006 (FAME):**

**Applicant:** Nusun Genetic Research Limited

**Address of the Applicant:**

501, Subhan Sirisampada,

Raj Bhavan Road, Somajiguda,

Hyderabad – 500082,

Andhra Pradesh, India

**Nationality of Applicant:** Indian

**Application details**

- **a. Number:** E4 HA7 10 156
- **b. Date of receipt:** 14/06/2010
- **c. Date of acceptance:** 11/07/2011

**Crop (Taxonomical Lineage):** Sunflower [Helianthus annus L.]

**Denomination:** VSFH-2006 (FAME)

**Type of Variety:** Extant (Variety of Common Knowledge)

**Classification of Variety:** Hybrid

**Previously proposed denomination:** Not applicable

**Name of Parental Material:** 210002A X 230077

**Name of Reference Varieties:** VSFH-1044 (REYFLO) and DRSH-1

**Variety Description:**

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Early (Morden)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Coarse (CMS-17A)</td>
</tr>
<tr>
<td>Plant: Height</td>
<td>Tall (KBSH-1)</td>
</tr>
</tbody>
</table>
Plant: Branching | Absent (KBSH-1)
---|---
Seed Coat: Stripes | Present (KBSH-1)

B. Distinct Characteristics:

**VSFH-2006 (FAME)** has distinguishing characters like early time of flowering, dark green leaf colour, erect orientation of leaf blade, convex shape of grain side of head, tall plant height, ovoid elongated seed shape, medium seed weight (100 seeds in g) and medium (%) hull content of seed.

C. Reference varieties:

1. **VSFH-1044 (REYFLO):** It has distinguishing characters like medium time of flowering, green leaf colour, drooping orientation of leaf blade, convex shape of grain side of head, tall plant height, ovoid elongated seed shape, medium seed weight (100 seeds in g) and medium (%) hull content of seed.

2. **DRSH-1:** It has distinguishing characters like medium time of flowering, green leaf colour, drooping orientation of leaf blade, flat shape of grain side of head, very tall plant height, elongated seed shape, high seed weight (100 seeds in g) and low (%) hull content of seed.

D. Date of commercialization of the variety

Commercialized since 21/07/2008.

E. Photographs: (See figure 05a, b and c)

06. Application No. E6 HA9 10 158 filed on 14/06/2010 by Vibha Agrotech Limited, 501, Subhan Sirisampada, Raj Bhavan Road, Somajiguda, Hyderabad – 500082, Andhra Pradesh, India on behalf of ----NA----- for a extant (Variety of Common Knowledge) plant variety of crop Sunflower [*Helianthus annuus* L.] having denomination VSFH-1003 (GLEN), 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 VSFH-1003 (GLEN):

**Applicant** : Vibha Agrotech Limited

**Address of the Applicant**
- 501, Subhan Sirisampada,
- Raj Bhavan Road, Somajiguda,
- Hyderabad – 500082,
- Andhra Pradesh, India

**Nationality of Applicant** : Indian

**Application details**

<table>
<thead>
<tr>
<th>a. Number</th>
<th>E6 HA9 10 158</th>
</tr>
</thead>
<tbody>
<tr>
<td>b. Date of receipt</td>
<td>14/06/2010</td>
</tr>
<tr>
<td>c. Date of acceptance</td>
<td>11/07/2011</td>
</tr>
</tbody>
</table>

**Crop (Taxonomical Lineage)** : Sunflower [*Helianthus annus* L.]

**Denomination** : VSFH-1003 (GLEN)

**Type of Variety** : Extant (Variety of Common Knowledge)

**Classification of Variety** : Hybrid

**Previously proposed denomination** : Not applicable

**Name of Parental Material** : 210019A X 230057

**Name of Reference Varieties** : VSFH-2006 (FAME) and DRSH-1

**Variety Description:**

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Early (Morden)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Medium (KBSH-42)</td>
</tr>
<tr>
<td>Plant: Height</td>
<td>Tall (KBSH-1)</td>
</tr>
</tbody>
</table>
Plant: Branching | Absent (KBSH-1)
Seed Coat: Stripes | Present (KBSH-1)

B. Distinct Characteristics:

**VSFH-1003 (GLEN)** has distinguishing characters like strong anthocyanin pigmentation of hypocotyl, early time of flowering, medium leaf serration, strong anthocyanin pigmentation of stigma of disk floret, tall plant height, ovoid elongated seed shape and medium (%) hull content of seed.

C. Reference varieties:

1. **VSFH-2006 (FAME)**: It has distinguishing characters like medium anthocyanin pigmentation of hypocotyl, early time of flowering, coarse leaf serration, medium anthocyanin pigmentation of stigma of disk floret, tall plant height, ovoid elongated seed shape and medium (%) hull content of seed.

2. **DRSH-1**: It has distinguishing characters like medium anthocyanin pigmentation of hypocotyl, medium time of flowering, coarse leaf serration, medium anthocyanin pigmentation of stigma of disk floret, very tall plant height, elongated seed shape and low (%) hull content of seed.

D. Date of commercialization of the variety

Commercialized since 10/01/2005.

E. Photographs: (See figure 06a, b, c and d)

07. Application No. **E7 HA10 10 159** filed on 14/06/2010 by Vibha Agrotech Limited, 501, Subhan Sirisampada, Raj Bhavan Road, Somajiguda, Hyderabad – 500082, Andhra Pradesh, India on behalf of ----NA----- for a *extant (Variety of Common Knowledge) plant variety* of crop **Sunflower** [*Helianthus annus* L.] having denomination **VSFH-1006 (CLARA)**, 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 VSFH-1006 (CLARA):**

**Applicant** : Vibha Agrotech Limited

**Address of the Applicant** : 501, Subhan Sirisampada,

Raj Bhavan Road, Somajiguda,

Hyderabad – 500082,

Andhra Pradesh, India

**Nationality of Applicant** : Indian

**Application details**

- **Number** : E7 HA10 10 159
- **Date of receipt** : 14/06/2010
- **Date of acceptance** : 11/07/2011

**Crop (Taxonomical Lineage)** : Sunflower *Helianthus annus* L.

**Denomination** : VSFH-1006 (CLARA)

**Type of Variety** : Extant (Variety of Common Knowledge)

**Classification of Variety** : Hybrid

**Previously proposed denomination** : Not applicable

**Name of Parental Material** : 210020A X 230021

**Name of Reference Varieties** : VSFH-1008 (CLEO) and DRSH-1

**Variety Description:**

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Medium (KBSH-1)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Medium (KBSH-42)</td>
</tr>
<tr>
<td>Plant: Height</td>
<td>Very tall (KBSH-44)</td>
</tr>
</tbody>
</table>
Plant: Branching | Absent (KBSH-1)
---|---
Seed Coat: Stripes | Present (KBSH-1)

**B.Distinct Characteristics:**

**VSFH-1006 (CLARA)** has distinguishing characters like dark green leaf colour, medium leaf serration, convex shape of grain side of head, ovoid wide seed shape, medium seed weight (100 seeds in g) and medium (%) hull content of seed.

**C. Reference varieties:**

1. **VSFH-1008 (CLEO):** It has distinguishing characters like green leaf colour, medium leaf serration, convex shape of grain side of head, ovoid wide seed shape, medium seed weight (100 seeds in g) and high (%) hull content of seed.

2. **DRSH-1:** It has distinguishing characters like green leaf colour, coarse leaf serration, flat shape of grain side of head, elongated seed shape, high seed weight (100 seeds in g) and low (%) hull content of seed.

**D. Date of commercialization of the variety** Commercialized since 11/04/2005.

**E. Photographs:** (See figure 07a, b and c)

08. Application No. [E8 HA11 10 160] filed on 14/06/2010 by Vibha Agrotech Limited, 501, Subhan Sirisampada, Raj Bhavan Road, Somajiguda, Hyderabad – 500082, Andhra Pradesh, India on behalf of ----NA----- for a extant (Variety of Common Knowledge) plant variety of crop Sunflower [Helianthus annuus L.] having denomination VSFH-1008 (CLEO), 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---.

Passport data of the variety VSFH-1008 (CLEO):

Applicant: Vibha Agrotech Limited

Address of the Applicant: 501, Subhan Sirisampada,
Raj Bhavan Road, Somajiguda,
Hyderabad – 500082,
Andhra Pradesh, India

Nationality of Applicant: Indian

Application details:
- a. Number: [E8 HA11 10 160]
- b. Date of receipt: 14/06/2010
- c. Date of acceptance: 11/07/2011

Crop (Taxonomical Lineage): Sunflower [Helianthus annus L.]

Denomination: VSFH-1008 (CLEO)

Type of Variety: Extant (Variety of Common Knowledge)

Classification of Variety: Hybrid

Previously proposed denomination: Not applicable

Name of Parental Material: 210022A X 230021

Name of Reference Varieties: VSFH-1006 (CLARA) and DRSH-1

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Medium (KBSH-1)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Medium (KBSH-42)</td>
</tr>
<tr>
<td>Plant: Height</td>
<td>Tall (KBSH-1)</td>
</tr>
<tr>
<td>Plant: Branching</td>
<td>Absent (KBSH-1)</td>
</tr>
</tbody>
</table>
Seed Coat: Stripes
Present (KBSH-1)

B. Distinct Characteristics:

**VSFH-1008 (CLEO)** has distinguishing characters like medium leaf serration, convex shape of grain side of head, tall plant height, ovoid wide seed shape, medium seed weight (100 seeds in g) and high (%) hull content of seed.

C. Reference varieties:

1. **VSFH-1006 (CLARA)**: It has distinguishing characters like medium leaf serration, convex shape of grain side of head, very tall plant height, ovoid wide seed shape, medium seed weight (100 seeds in g) and medium (%) hull content of seed.

2. **DRSH-1**: It has distinguishing characters like coarse leaf serration, flat shape of grain side of head, very tall plant height, elongated seed shape, high seed weight (100 seeds in g) and low (%) hull content of seed.

D. Date of commercialization of the variety

Commercialized since 29/01/2005.

E. Photographs: (See figure 08a, b and c)

09. Application No. N67 GH95 10 208 filed on 13/07/2010 by Ankur Seeds (P) Limited, 27-New Cotton Market Layout, Opp. Bus Station, Nagpur-440018, Maharashtra, India on behalf of -----NA----- for a new plant variety of crop Tetraploid Cotton [Gossypium hirsutum L.] having denomination GNLC-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---.


Passport data of the variety GNLC-1:
Applicant: Ankur Seeds (P) Limited

Address of the Applicant: 27-New Cotton Market Layout,
Opp. Bus Station,
Nagpur-440018,
Maharashtra, India

Nationality of Applicant: Indian

Application details:
- a. Number: N67 GH95 10 208
- b. Date of receipt: 13/07/2010
- c. Date of acceptance: 21/07/2011

Crop (Taxonomical Lineage): Tetraploid Cotton [Gossypium hirsutum L.]

Denomination: GNLC-1

Type of Variety: New

Classification of Variety: Typical

Previously proposed denomination: Not applicable

Name of Parental Material: VIC 10 X Mutant 651

Name of Reference Varieties: G. Cot-10 and LRA 5166

Variety Description:

A. Group Characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td>Gossypium hirsutum L.</td>
</tr>
<tr>
<td>Leaf: Shape</td>
<td>Palmate (Normal) (LRA 5166)</td>
</tr>
<tr>
<td>Flower: Petal colour</td>
<td>Yellow (Laxmi)</td>
</tr>
<tr>
<td>Flower: Pollen colour</td>
<td>Yellow (LRA 5166)</td>
</tr>
<tr>
<td>Boll: Shape (Longitudinal section)</td>
<td>Ovate (Surabhi)</td>
</tr>
<tr>
<td>Fibre: Length</td>
<td>Fuzzless (-)</td>
</tr>
</tbody>
</table>

B. Distinct Characteristics:

GNLC-1 has distinguishing characters like presence of male sterility of flower, very small weight of seed cotton/boll (g) and naked (fuzzless) seed.
C. Reference varieties:
1. G. Cot: It has distinguishing characters like absence of male sterility of flower, small weight of seed cotton/boll (g) and medium seed fuzz.
2. LRA 5166: It has distinguishing characters like absence of male sterility of flower, small weight of seed cotton/boll (g) and medium seed fuzz.

| D. Date of commercialization of the variety | Not commercialized |

E. Photographs: (See figure 09a, b and c)

10. Application No. E10 HA13 10 229 filed on 03/08/2010 by M/s Lakshmikumaran & Sridharan, B 6/10, Safdarjung Enclave, New Delhi-110029 on behalf of Syngenta India Limited, Amar Paradigm, S. No. 110/11/3, Baner, Pune – 411045, Maharashtra, India for a extant (Variety of Common Knowledge) plant variety of crop Sunflower [Helianthus annus L.] having denomination SYN-SF-207, 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----.


Passport data of the variety SYN-SF-207:

Applicant : Syngenta India Limited

Address of the Applicant : Amar Paradigm, S. No. 110/11/3, Baner, Pune – 411045, Maharashtra, India

Nationality of Applicant : Indian
Application details

a. Number : E10  HA13  10  229
b. Date of receipt : 03/08/2010
c. Date of acceptance : 21/07/2011

Crop (Taxonomical Lineage) : Sunflower \(Helianthus annus\) L.
Denomination : SYN-SF-207
Type of Variety : Extant (Variety of Common Knowledge)
Classification of Variety : Hybrid

Previously proposed denomination : Not applicable

Name of Parental Material : IS338 X FR810rm1
Name of Reference Varieties : Sunbred-293 and KBSH-1

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Early (Morden)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Medium (KBSH-42)</td>
</tr>
<tr>
<td>Plant: Height</td>
<td>Medium (PKVSF-9)</td>
</tr>
<tr>
<td>Plant: Branching</td>
<td>Absent (KBSH-1)</td>
</tr>
<tr>
<td>Seed Coat: Stripes</td>
<td>Present (KBSH-1)</td>
</tr>
</tbody>
</table>

B. Distinct Characteristics:

SYN-SF-207 has distinguishing characters like early time of flowering, cordate shape of leaf, light green leaf colour, medium anthocyanin pigmentation of stigma of disc florate, elongated shape of bract, flat shape of grain side of head and ovoid elongated shape of seed.

C. Reference varieties:

1. Sunbred-293: It has distinguishing characters like early time of flowering, cordate shape of leaf, green leaf colour, absence of anthocyanin pigmentation of stigma of disc florate, elongated shape of bract, convex shape of grain side of head and ovoid wide shape of seed.

2. KBSH-1: It has distinguishing characters like medium time of flowering, rounded shape of leaf, dark green leaf colour, medium anthocyanin pigmentation of stigma of disc florate, rounded shape of bract, flat shape of grain side of head and ovoid elongated shape of seed.
D. Date of commercialization of the variety

Commercialized since 23/02/2005.

E. Photographs: (See figure 10a and b)

11. Application No. [N27] [ZM27] 10 231 filed on 05/08/2010 by by Kaveri Seed Company Limited, # 513-B, 5th Floor, Minerva Complex, S.D. Road, Secunderabad – 500003, Andhra Pradesh, India on behalf of -----NA----- for a new plant variety of crop Maize [Zea mays L.] having denomination KML 5164, 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---.


Passport data of the variety KML 5164:

Applicant : Kaveri Seed Company Limited
Address of the Applicant : # 513-B, 5th Floor,
Minerva Complex, S.D. Road,
Secunderabad – 500003,
Andhra Pradesh, India

Nationality of Applicant : Indian

Application details
   a. Number : [N27] [ZM27] 10 231
   b. Date of receipt : 05/08/2010
   c. Date of acceptance : 21/07/2011

Crop (Taxonomical Lineage) : Maize [Zea mays L.]
**Denomination**: KML 5164  
**Type of Variety**: New  
**Classification of Variety**: Typical  
**Previously proposed denomination**: Not applicable  
**Name of Parental Material**: KML 5164  
**Name of Reference Varieties**: V-335 and V-346

**Variety Description:**

<table>
<thead>
<tr>
<th><strong>A. Group Characteristics</strong></th>
<th><strong>Remarks measured values, example varieties, etc.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tassel: Time of anthesis (on middle third of main axis, 50% plants)</td>
<td>Late (HKI 1126)</td>
</tr>
<tr>
<td>Ear: Time of silk emergence (50% plants)</td>
<td>Late (HKI 1126)</td>
</tr>
<tr>
<td>Ear: Anthocyanin colouration of silks (on day of emergence)</td>
<td>Present (HKI 323)</td>
</tr>
<tr>
<td>Plant: Length (up to flag leaf)</td>
<td>Long (HKI 1128)</td>
</tr>
<tr>
<td>Ear: Type of grain (in middle third of ear)</td>
<td>Semi dent (HKI 1344)</td>
</tr>
</tbody>
</table>

**B. Distinct Characteristics:**

**KML 5164** has distinguishing characters like presence of anthocyanain colouration of brace roots of stem, sparse density of spikelets of tassel (in middle third of main axis), curved attitude of lateral branches of tassel (in lower third of tassel) and orange with cap ear colour of top of grain.

**C. Reference varieties:**

1. **V-335**: It has distinguishing characters like presence of anthocyanain colouration of brace roots of stem, dense density of spikelets of tassel (in middle third of main axis), straight attitude of lateral branches of tassel (in lower third of tassel) and yellow ear colour of top of grain.

2. **V-346**: It has distinguishing characters like absence of anthocyanain colouration of brace roots of stem, dense density of spikelets of tassel (in middle third of main axis), strongly curved attitude of lateral branches of tassel (in lower third of tassel) and yellow with cap ear colour of top of grain.
D. Date of commercialization of the variety

| Date of commercialization of the variety | Not commercialized |

E. Photographs: (See figure 11a and b)

12. Application No. N28 ZM28 10 232 filed on 05/08/2010 by by Kaveri Seed Company Limited, # 513-B, 5th Floor, Minerva Complex, S.D. Road, Secunderabad – 500003, Andhra Pradesh, India on behalf of -----NA----- for a new plant variety of crop Maize [Zea mays L.] having denomination KML 5263, 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------.


Passport data of the variety KML 5263:

Applicant : Kaveri Seed Company Limited
Address of the Applicant : # 513-B, 5th Floor,
Minerva Complex, S.D. Road,
Secunderabad – 500003,
Andhra Pradesh, India

Nationality of Applicant : Indian

Application details

<table>
<thead>
<tr>
<th>Number</th>
<th>ZM28</th>
<th>10</th>
<th>232</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Number</td>
<td>N28</td>
<td>ZM28</td>
<td>10</td>
</tr>
<tr>
<td>b. Date of receipt</td>
<td>05/08/2010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Date of acceptance</td>
<td>21/07/2011</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Crop (Taxonomical Lineage): Maize [Zea mays L.]
Denomination: KML 5263
Type of Variety: New
Classification of Variety: Typical
Previously proposed denomination: Not applicable
Name of Parental Material: KML 5263
Name of Reference Varieties: CM-133 and CM-132

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tassel: Time of anthesis (on middle third of main axis, 50% plants)</td>
<td>Late (HKI 1126)</td>
</tr>
<tr>
<td>Ear: Time of silk emergence (50% plants)</td>
<td>Late (HKI 1126)</td>
</tr>
<tr>
<td>Ear: Anthocyanin colouration of silks (on day of emergence)</td>
<td>Absent (HKI 1025)</td>
</tr>
<tr>
<td>Plant: Length (up to flag leaf)</td>
<td>Medium (HKI 323)</td>
</tr>
<tr>
<td>Ear: Type of grain (in middle third of ear)</td>
<td>Semi dent (HKI 1344)</td>
</tr>
</tbody>
</table>

B. Distinct Characteristics:

KML 5263 has distinguishing characters like medium ear placement on plant, medium width of blade of leaf (leaf of upper ear), orange with cap ear colour of top of grain and indented shape of kernel.

C. Reference varieties:

1. CM-133: It has distinguishing characters like low ear placement on plant, narrow width of blade of leaf (leaf of upper ear), orange ear colour of top of grain and round shape of kernel.
2. CM-132: It has distinguishing characters like low ear placement on plant, narrow width of blade of leaf (leaf of upper ear), yellow ear colour of top of grain and round shape of kernel.

D. Date of commercialization of the variety: Not commercialized

E. Photographs: (See figure 12a, b and c)
13. Application No. \textcolor{red}{N30} \textcolor{red}{ZM30} 10 234 filed on 05/08/2010 by by Kaveri Seed Company Limited, # 513-B, 5th Floor, Minerva Complex, S.D. Road, Secunderabad – 500003, Andhra Pradesh, India on behalf of -----NA----- for a new plant variety of crop Maize [Zea mays L.] having denomination KML 5015, 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---.


Passport data of the variety KML 5015:

Applicant : Kaveri Seed Company Limited

Address of the Applicant : # 513-B, 5th Floor,
                        Minerva Complex, S.D. Road,
                        Secunderabad – 500003,
                        Andhra Pradesh, India

Nationality of Applicant : Indian

Application details

a. Number : \textcolor{red}{N30} \textcolor{red}{ZM30} 10 234

b. Date of receipt : 05/08/2010

c. Date of acceptance : 21/07/2011

Crop (Taxonomical Lineage) : Maize [Zea mays L.]

Denomination : KML 5015

Type of Variety : New

Classification of Variety : Typical

Previously proposed denomination : Not applicable

Name of Parental Material : KML 5015
Name of Reference Varieties: CM-133 and CM-132

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tassel: Time of anthesis (on middle third of main axis, 50% plants)</td>
<td>Late (HKI 1126)</td>
</tr>
<tr>
<td>Ear: Time of silk emergence (50% plants)</td>
<td>Late (HKI 1126)</td>
</tr>
<tr>
<td>Ear: Anthocyanin colouration of silks (on day of emergence)</td>
<td>Present (HKI 323)</td>
</tr>
<tr>
<td>Plant: Length (up to flag leaf)</td>
<td>Medium (HKI 323)</td>
</tr>
<tr>
<td>Ear: Type of grain (in middle third of ear)</td>
<td>Semi flint (HKI 1344)</td>
</tr>
</tbody>
</table>

B. Distinct Characteristics:

KML 5015 has distinguishing characters like wide angle between main axis and lateral branches of tassel (in lower third of tassel), medium number of rows of grain, semi-flint type of grain (in middle third of ear) and indented shape of kernel.

C. Reference varieties:

1. CM-133: It has distinguishing characters like narrow angle between main axis and lateral branches of tassel (in lower third of tassel), may number of rows of grain, flint type of grain (in middle third of ear) and round shape of kernel.

2. CM-132: It has distinguishing characters like narrow angle between main axis and lateral branches of tassel (in lower third of tassel), many number of rows of grain, flint type of grain (in middle third of ear) and round shape of kernel.

D. Date of commercialization of the variety: Not commercialized

E. Photographs: (See figure 13a, b and c)
Knowledge) plant variety of crop Sunflower \([Helianthus annus\) L.] having denomination KSFH-678, 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---.


Passport data of the variety KSFH-678:

Applicant : Kaveri Seed Company Limited

Address of the Applicant : # 513-B, 5th Floor,
Minerva Complex, S.D. Road,
Secunderabad – 500003,
Andhra Pradesh, India

Nationality of Applicant : Indian

Application details

a. Number : E11 HA14 10 235
b. Date of receipt : 05/08/2010
c. Date of acceptance : 21/07/2011

Crop (Taxonomical Lineage) : Sunflower \([Helianthus annus\) L.]

Denomination : KSFH-678

Type of Variety : Extant (Variety of Common Knowledge)

Classification of Variety : Hybrid

Previously proposed denomination : Not applicable

Name of Parental Material : K-678A X K-678R

Name of Reference Varieties : KBSH-1 and KBSH-44

Variety Description:
A. Group Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Medium (KBSH-1)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Medium (KBSH-42)</td>
</tr>
<tr>
<td>Plant: Height</td>
<td>Tall (KBSH-1)</td>
</tr>
<tr>
<td>Plant: Branching</td>
<td>Absent (KBSH-1)</td>
</tr>
<tr>
<td>Seed Coat: Stripes</td>
<td>Present (KBSH-1)</td>
</tr>
</tbody>
</table>

B. Distinct Characteristics:

KSFH-678 has distinguishing characters like acute angle of lateral veins of leaf and half turned down attitude of head.

C. Reference varieties:

1. KBSH-1: It has distinguishing characters like obtuse angle of lateral veins of leaf and turned down attitude of head.
2. KBSH-44: It has distinguishing characters like obtuse angle of lateral veins of leaf and turned down attitude of head.

D. Date of commercialization of the variety

Commercialized since 04/04/2005.

E. Photographs: (See figure 14a and b)

15. Application No. E13 HA16 10 253 filed on 23/08/2010 by Kaveri Seed Company Limited, # 513-B, 5th Floor, Minerva Complex, S.D. Road, Secunderabad – 500003, Andhra Pradesh, India on behalf of -----NA----- for a extant (Variety of Common Knowledge) plant variety of crop Sunflower [Helianthus annus L.] having denomination KSFH-7049, 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 KSFH-7049:**

**Applicant**: Kaveri Seed Company Limited

**Address of the Applicant**: # 513-B, 5th Floor,
Minerva Complex, S.D. Road,
Secunderabad – 500003,
Andhra Pradesh, India

**Nationality of Applicant**: Indian

**Application details**

- **a. Number**: E13 HA17 10 253
- **b. Date of receipt**: 23/08/2010
- **c. Date of acceptance**: 21/07/2011

**Crop (Taxonomical Lineage)**: Sunflower [*Helianthus annus* L.]

**Denomination**: KSFH-7049

**Type of Variety**: Extant (Variety of Common Knowledge)

**Classification of Variety**: Hybrid

**Previously proposed denomination**: Not applicable

**Name of Parental Material**: KSF-270A X KSF-097R

**Name of Reference Varieties**: KBSH-1 and KBSH-44

**Variety Description:**

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Medium (KBSH-1)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Coarse (RSFH-1)</td>
</tr>
<tr>
<td>Plant: Height</td>
<td>Very tall (KBSH-44)</td>
</tr>
<tr>
<td>Plant: Branching</td>
<td>Absent (KBSH-1)</td>
</tr>
</tbody>
</table>
Seed Coat: Stripes

B. Distinct Characteristics:
KSFH-7049 has distinguishing characters like acute angle of lateral veins of leaf, drooping orientation of leaf blade, purple colour of disc floret and very tall plant height.

C. Reference varieties:
1. KBSH-1: It has distinguishing characters like obtuse angle of lateral veins of leaf, erect orientation of leaf blade, yellow colour of disc floret and tall plant height.
2. KBSH-44: It has distinguishing characters like obtuse angle of lateral veins of leaf, erect orientation of leaf blade, yellow colour of disc floret and tall plant height.

D. Date of commercialization of the variety
Commercialized since 17/04/2008.

E. Photographs: (See figure 15a and b)

16. Application No. N1 BJ1 10 269 filed on 09/09/2010 by Mr. Ajay Kumar Sud, F-3, South Extension Part-I, New Delhi-110049 on behalf of Pioneer Overseas Corporation – India Branch Office, 3rd & 4th Floor, Babukans’ Millennium Centre, 6-3-1099/1100, Raj Bhavan Road, Somajiguda, Hyderabad – 500082, Andhra Pradesh, India for a new plant variety of crop Indian Mustard [Brassica juncea L. Czern & Coss] having denomination 45S45, 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----.


Passport data of the variety 45S45:
Applicant: Pioneer Overseas Corporation – India Branch Office
Address of the Applicant: 3rd & 4th Floor, Babukans’ Millennium Centre, 6-3-1099/1100, Raj Bhavan Road, Somajiguda, Hyderabad – 500082, Andhra Pradesh, India

Nationality of Applicant: Indian

Application details:
- a. Number: N1 BJ1 10 269
- b. Date of receipt: 09/09/2010
- c. Date of acceptance: 21/07/2011

Crop (Taxonomical Lineage): Indian Mustard [Brassica juncea L. Czern & Coss]

Denomination: 45S45

Type of Variety: New

Classification of Variety: Hybrid

Previously proposed denomination: Not applicable

Name of Parental Material: JI0799FC X JI0821MC

Name of Reference Varieties: Varuna

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf: Number of lobes</td>
<td>High (CS 52)</td>
</tr>
<tr>
<td>Flower: Time of flowering (50% of the plants with at least one open flower)</td>
<td>Medium (BIO 902)</td>
</tr>
<tr>
<td>Plant: Main shoot length (cm)</td>
<td>Very long (Rohini)</td>
</tr>
<tr>
<td>Siliqua: Number of seeds per siliqua</td>
<td>Medium (CS 52)</td>
</tr>
</tbody>
</table>

B. Distinct Characteristics:

45S45 has distinguishing characters like dark green leaf colour, serrate dentation of margin of leaf, long leaf length, broad leaf width, low siliqua density on main shoot, open siliqua angle with main shoot, undulated texture of siliqua and medium number of seeds per siliqua.
C. Reference varieties:

1. Varuna: It has distinguishing characters medium green leaf colour, dentate dentation of margin of leaf, medium leaf length, medium leaf width, medium siliqua density on main shoot, open siliqua angle with main shoot, undulated texture of siliqua and few number of seeds per siliqua.

| D. Date of commercialization of the variety | Commercialized since 17/09/2009 |

E. Photographs: (See figure 16a, b and c)

17. Application No. [N 7] [HA 22] [10] [275] filed on 20/09/2010 by Kaveri Seed Company Limited, 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.) on behalf of -----NA------for a new plant variety of crop Sunflower (Helianthus annuus L.) having denomination KSF-004R, the specification including 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------.


Passport Data of the variety KSF-004R:

Applicant : Kaveri Seed Company Limited
Address of the Applicant : 513-B, 5th Floor, Minerva complex,
                        : S. D. Road, Secunderabad-500003 (A.P.)
Nationality of Applicant : Indian
Application details
a. Number : [N 7] [HA 22] [10] [275]
Crop (Taxonomical Lineage): Sunflower (*Helianthus annuus* L.)

Denomination: KSF-004R

Type of Variety: New

Classification of Variety: Typical

Previously proposed denomination: Not applicable

Name of Parental Material: KSF-004R has been developed for base population

Name of Reference Varieties: RHA-271 & 6D-1

Variety Description:

### A. Group Characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Remarks, measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Late (-)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Medium (KBSH-42)</td>
</tr>
<tr>
<td>Plant: Height (cm)</td>
<td>Tall (KBSH-1)</td>
</tr>
<tr>
<td>Plant: Branching</td>
<td>Present (RHA 274)</td>
</tr>
<tr>
<td>Seed coat: Stripes</td>
<td>Absent (RHA 274)</td>
</tr>
</tbody>
</table>

### B. Distinct Characteristics:

*KSF-004R* has distinguishing characters like late time of 50% flowering, medium leaf blistering, half turned down head attitude, convex head shape of grain side and apical type of branching.
C. Reference varieties:

RHA-271: It has distinguishing characters like medium time of 50% flowering, absent leaf blistering, turned down head attitude, flat head shape of grain side and over all type of branching.

6D-1: It has distinguishing characters like medium time of 50% flowering, strong leaf blistering, turned down head attitude, flat head shape of grain side and over all type of branching.

| D. Date of commercialization of the variety | Not commercialized |

E. Photographs: (See figure 17a and b)

18. Application No. [N12  HA 27  10  280] filed on 20/09/2010 by Kaveri Seed Company Limited, 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.) on behalf of -----NA------for a new plant variety of crop Sunflower (Helianthus annuus L.) having denomination KSF-270A, the specification including 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----.


Passport Data of the variety KSF-270A:

Applicant : Kaveri Seed Company Limited

Address of the Applicant : 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.)

Nationality of Applicant : Indian
Application details

a. Number : N12 | HA 27 | 10 | 280

b. Date of receipt : 20/09/2010

c. Date of acceptance : 03/06/2011

Crop (Taxonomical Lineage) : Sunflower (*Helianthus annuus* L.)

Denomination : KSF-270 A

Type of Variety : New

Classification of Variety : Typical

Previously proposed denomination : Not applicable

Name of Parental Material : Strain A (270 A) & Strain KSF-270

Name of Reference Varieties : 234A & 17A

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks, measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Medium (KBSH-41)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Medium (KBSH-42)</td>
</tr>
<tr>
<td>Plant: Height (cm)</td>
<td>Tall (KBSH-1)</td>
</tr>
<tr>
<td>Plant: Branching</td>
<td>Absent (Morden)</td>
</tr>
<tr>
<td>Seed coat: Stripes</td>
<td>Present (Surya)</td>
</tr>
</tbody>
</table>

B. Distinct Characteristics:
*KSF-270A* has distinguishing characters like medium leaf blistering, many ray floret number,
convex head shape of grain side and short seed length.

C. Reference varieties:

234A: It has distinguishing characters like strong leaf blistering, medium ray floret number, flat head shape of grain side and medium seed length.

17A: It has distinguishing characters absent leaf blistering, medium ray floret number, flat head shape of grain side and medium seed length.

D. Date of commercialization of the variety

<table>
<thead>
<tr>
<th>D. Date of commercialization of the variety</th>
<th>Not commercialized</th>
</tr>
</thead>
</table>

E. Photographs: (See figure 18)

19. Application No. [N14] [HA 29] [10] [282] filed on 20/09/2010 by Kaveri Seed Company Limited, 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.) on behalf of -----NA-------for a new plant variety of crop Sunflower (Helianthus annuus L.) having denomination KSF-279A, the specification including 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---.


Passport Data of the variety KSF-279A:

Applicant : Kaveri Seed Company Limited

Address of the Applicant : 513-B, 5th Floor, Minerva complex,
S. D. Road, Secunderabad-500003 (A.P.)

Nationality of Applicant : Indian
Application details

a. Number : N14 HA 29 10 282

b. Date of receipt : 20/09/2010

c. Date of acceptance : 03/06/2011

Crop (Taxonomical Lineage) : Sunflower (Helianthus annuus L.)

Denomination : KSF-279 A

Type of Variety : New

Classification of Variety : Typical

Previously proposed denomination : Not applicable

Name of Parental Material : Strain A (KSF-115) & Strain B (KSF-279)

Name of Reference Varieties : 234A & 17A

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks, measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50 % flowering</td>
<td>Medium (KBSH-41)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Coarse (CMS-17A)</td>
</tr>
<tr>
<td>Plant : Height (cm)</td>
<td>Medium (BSH 1)</td>
</tr>
<tr>
<td>Plant : Branching</td>
<td>Absent (Morden)</td>
</tr>
<tr>
<td>Seed coat: Stripes</td>
<td>Present (Surya)</td>
</tr>
</tbody>
</table>

B. Distinct Characteristics:

KSF-279A has distinguishing characters like coarse leaf serration, yellow disc floret colour,
absent disc floret anthocyanin pigmentation of stigma and convex head shape of grain side.

C. Reference varieties:

234A: It has distinguishing characters like fine leaf serration, purple disc floret colour, medium disc floret anthocyanin pigmentation of stigma and flat head shape of grain side.

17A: It has distinguishing characters like medium leaf serration, purple disc floret colour, strong disc floret anthocyanin pigmentation of stigma and flat head shape of grain side.

D. Date of commercialization of the variety

Not commercialized

E. Photographs: (See figure 19)

20. Application No. \[\begin{array}{|c|c|c|c|}
\hline
N15 & HA 30 & 10 & 283 \\
\hline
\end{array}\] filed on 20/09/2010 by Kaveri Seed Company Limited, 513-B, 5\textsuperscript{th} Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.) on behalf of -----NA------for a new plant variety of crop Sunflower \textit{(Helianthus annuus} L.) having denomination KSF-003R, the specification including 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 \textbf{Office of the Registrar, PPV & FR Authority, New Delhi – 110 012.}

Passport Data of the variety KSF-003R:

\textbf{Applicant} : Kaveri Seed Company Limited

\textbf{Address of the Applicant} : 513-B, 5\textsuperscript{th} Floor, Minerva complex,
S. D. Road, Secunderabad-500003 (A.P.)
Nationality of Applicant: Indian

Application details

a. Number: [N15 HA 30 10 283]

b. Date of receipt: 20/09/2010

c. Date of acceptance: 03/06/2011

Crop (Taxonomical Lineage): Sunflower *(Helianthus annuus* L.)*

Denomination: KSF-003R

Type of Variety: New

Classification of Variety: Typical

Previously proposed denomination: Not applicable

Name of Parental Material: KSF-003R has been developed for base population

Name of Reference Varieties: RHA-271 & 6D-1

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks, measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Early (Morden)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Fine (CMS-234A)</td>
</tr>
<tr>
<td>Plant: Height (cm)</td>
<td>Medium (BSH 1)</td>
</tr>
<tr>
<td>Plant: Branching</td>
<td>Present (RHA 274)</td>
</tr>
<tr>
<td>Seed coat: Stripes</td>
<td>Absent (RHA 274)</td>
</tr>
</tbody>
</table>
B. Distinct Characteristics:

**KSF-003R** has distinguishing characters like early time of 50% flowering, rounded bract shape and absence of seed coat stripes.

C. Reference varieties:

**RHA-271**: It has distinguishing characters like medium time of 50% flowering, elongated bract shape presence of seed coat stripes,

**6D-1**: It has distinguishing characters like medium time of 50% flowering, elongated bract shape and presence of seed coat stripes.

<table>
<thead>
<tr>
<th>Date of commercialization of the variety</th>
<th>Not commercialized</th>
</tr>
</thead>
</table>

E. Photographs: (See figure 20a and b)

21. Application No. [N17] [HA 32] [10] [285] filed on **20/09/2010** by Kaveri Seed Company Limited, 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.) on behalf of -----NA------for a **new plant variety** of crop **Sunflower** (*Helianthus annuus* L.) having denomination **KSF-119A**, the specification including 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 KSF-119A:**

**Applicant** : Kaveri Seed Company Limited

**Address of the Applicant** : 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.)
Nationality of Applicant : Indian

Application details

a. Number : N17  HA 32  10  285

b. Date of receipt : 20/09/2010

c. Date of acceptance : 03/06/2011

Crop (Taxonomical Lineage) : Sunflower (Helianthus annuus L.)

Denomination : KSF-119A

Type of Variety : New

Classification of Variety : Typical

Previously proposed denomination : Not applicable

Name of Parental Material : Strain A (220A) X Strain KSF-119

Name of Reference Varieties : 234A & 17A

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks, measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50 % flowering</td>
<td>Early (Morden)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Medium (KBSH-42)</td>
</tr>
<tr>
<td>Plant : Height (cm)</td>
<td>Medium (BSH 1)</td>
</tr>
<tr>
<td>Plant : Branching</td>
<td>Absent (Morden)</td>
</tr>
<tr>
<td>Seed coat: Stripes</td>
<td>Present (Surya)</td>
</tr>
</tbody>
</table>
B. Distinct Characteristics:

KSF-119A has distinguishing characters like many ray floret number, convex head shape of grain side and medium plant height.

C. Reference varieties:

234 A: It has distinguishing characters like medium ray floret number, flat head shape of grain side and short plant height.

17A: It has distinguishing characters like medium ray floret number, flat head shape of grain side and short plant height.

D. Date of commercialization of the variety

| Date of Commercialization | Not Commercialized |

E. Photographs: (See figure 21)

22. Application No. N18 HA 33 10 286 filed on 21/09/2010 by Kaveri Seed Company Limited, 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.) on behalf of ----NA------for a new plant variety of crop Sunflower (Helianthus annuus L.) having denomination KSF-149A, the specification including 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----.


Passport Data of the variety KSF-149A:

Applicant : Kaveri Seed Company Limited
Address of the Applicant: 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.)

Nationality of Applicant: Indian

Application details

a. Number: N18 HA 33 10 286

b. Date of receipt: 21/09/2010

c. Date of acceptance: 03/06/2011

Crop (Taxonomical Lineage): Sunflower (Helianthus annuus L.)

Denomination: KSF-149A

Type of Variety: New

Classification of Variety: Typical

Previously proposed denomination: Not applicable

Name of Parental Material: Strain A (KSF 115) X Strain B (KSF-149)

Name of Reference Varieties: 234A & 17A

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks, measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Medium (KBSH-1)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Medium (KBSH-42)</td>
</tr>
<tr>
<td>Plant: Height (cm)</td>
<td>Medium (BSH 1)</td>
</tr>
<tr>
<td>Plant: Branching</td>
<td>Absent (Morden)</td>
</tr>
</tbody>
</table>
Seed coat: Stripes | Absent (RHA 274)

**B. Distinct Characteristics:**

**KSF-149A** has distinguishing characters like medium leaf blistering, yellow disc floret colour, convex head shape of grain side and absence of seed coat stripes.

**C. Reference varieties:**

**234A:** It has distinguishing characters like strong leaf blistering, purple disc floret colour, flat head shape of grain side and presence of seed coat stripes.

**17A:** It has distinguishing characters like absence of leaf blistering, purple disc floret colour, flat head shape of grain side and presence of seed coat stripes.

**D. Date of commercialization of the variety** | Not commercialized

**E. Photographs:** (See figure 22a and b)

23. Application No. [N19] HA 34 10 287 filed on **21/09/2010** by Kaveri Seed Company Limited, 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.) on behalf of -----NA------for a new plant variety of crop Sunflower (Helianthus annuus L.) having denomination **KSF-145A**, the specification including 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 KSF-145A:**

**Applicant** : Kaveri Seed Company Limited

**Address of the Applicant** : 513-B, 5th Floor, Minerva complex,
Nationality of Applicant : Indian

Application details

a. Number : N19  HA 34  10  287

b. Date of receipt : 21/09/2010

c. Date of acceptance : 03/06/2011

Crop (Taxonomical Lineage) : Sunflower (*Helianthus annuus* L.)

Denomination : KSF-145A

Type of Variety : New

Classification of Variety : Typical

Previously proposed denomination : Not applicable

Name of Parental Material : Strain A (KSF 115) X Strain B (KSF-145)

Name of Reference Varieties : 234A & 17A

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks, measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Medium (KBSH-1)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Fine (CMS-234A)</td>
</tr>
<tr>
<td>Plant : Height (cm)</td>
<td>Short (Morden)</td>
</tr>
<tr>
<td>Plant : Branching</td>
<td>Absent (Morden)</td>
</tr>
<tr>
<td>Seed coat: Stripes</td>
<td>Present (Surya)</td>
</tr>
</tbody>
</table>
B. Distinct Characteristics:

**KSF-145A** has distinguishing characters like medium leaf blistering, present leaf petiole anthocyanin pigmentation and convex head shape of grain side.

C. Reference varieties:

**234A**: It has distinguishing characters strong leaf blistering, absence of leaf petiole anthocyanin pigmentation and flat head shape of grain side.

**17A**: It has distinguishing characters like absent leaf blistering, absence of leaf petiole anthocyanin pigmentation and flat head shape of grain side.

D. Date of commercialization of the variety

| Date of commercialization of the variety | Not commercialized |

E. Photographs: (See figure 23)

24. Application No. **N20 HA 35 10 288** filed on **21/09/2010** by **Kaveri Seed Company Limited, 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.)** on behalf of *****-NA------for a new plant variety of crop **Sunflower (Helianthus annuus L.)** having denomination **KSF-141A**, the specification including 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 **KSF-141A**:

**Applicant**: Kaveri Seed Company Limited

**Address of the Applicant**: 513-B, 5th Floor, Minerva complex,

S. D. Road, Secunderabad-500003 (A.P.)
Nationality of Applicant : Indian

Application details

a. Number : N20 | HA 35 | 10 | 288

b. Date of receipt : 21/09/2010

c. Date of acceptance : 03/06/2011

Crop (Taxonomical Lineage) : Sunflower (*Helianthus annuus* L.)

Denomination : KSF-141A

Type of Variety : New

Classification of Variety : Typical

Previously proposed denomination : Not applicable

Name of Parental Material : Strain A (KSF 115) X Strain B (KSF-141)

Name of Reference Varieties : 234A & 17A

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks, measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Medium (KBSH-1)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Fine (CMS-234A)</td>
</tr>
<tr>
<td>Plant : Height (cm)</td>
<td>Medium (BSH 1)</td>
</tr>
<tr>
<td>Plant : Branching</td>
<td>Absent (Morden)</td>
</tr>
<tr>
<td>Seed coat: Stripes</td>
<td>Present (Surya)</td>
</tr>
</tbody>
</table>
B. Distinct Characteristics:
KSF-141A has distinguishing characters like rounded leaf shape, medium leaf blistering and yellow disc floret colour.

C. Reference varieties:
234A: It has distinguishing characters like triangular leaf shape, strong leaf blistering and purple disc floret colour.
17A: It has distinguishing characters like cordate leaf shape, absent leaf blistering and purple disc floret colour.

D. Date of commercialization of the variety
Not commercialized

E. Photographs: (See figure 24a and b)

25. Application No. N22 HA 37 10 290 filed on 21/09/2010 by Kaveri Seed Company Limited, 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.) on behalf of -----NA-------for a new plant variety of crop Sunflower (Helianthus annuus L.) having denomination KSFH-9004, the specification including 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----.


Passport Data of the variety KSFH-9004:

Applicant : Kaveri Seed Company Limited
Address of the Applicant : 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.)
Nationality of Applicant : Indian

Application details

a. Number : N22 HA 37 10 290

b. Date of receipt : 21/09/2010

c. Date of acceptance : 03/06/2011

Crop (Taxonomical Lineage) : Sunflower (Helianthus annuus L.)

Denomination : KSFH-9004

Type of Variety : New

Classification of Variety : Hybrid

Previously proposed denomination : Not applicable

Name of Parental Material : KSF-133A X KSF-097 R

Name of Reference Varieties : KBSH-1 & KBSH-44

Variety Description:

A. Group Characteristics

<table>
<thead>
<tr>
<th>Remarks, measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50 % flowering Medium (KBSH-1)</td>
</tr>
<tr>
<td>Leaf: Serration Coarse (CMS-17A)</td>
</tr>
<tr>
<td>Plant : Height (cm) Tall (KBSH-1)</td>
</tr>
<tr>
<td>Plant : Branching Absent (Morden)</td>
</tr>
<tr>
<td>Seed coat: Stripes Present (Surya)</td>
</tr>
</tbody>
</table>
B. Distinct Characteristics:
KSFH-9004 has distinguishing characters like obtuse leaf angle of lateral veins and ovoid wide seed shape.

C. Reference varieties:
KBSH-1: It has distinguishing characters like acute leaf angle of lateral veins and ovoid elongated seed shape.
KBSH-44: It has distinguishing characters like acute leaf angle of lateral veins and ovoid elongated seed shape.

D. Date of commercialization of the variety
Not commercialized

E. Photographs: (See figure 25)

26. Application No. [N25] [HA 40] [10] [293] filed on 21/09/2010 by Kaveri Seed Company Limited, 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.) on behalf of -----NA------for a new plant variety of crop Sunflower (Helianthus annuus L.) having denomination KSF-117A, the specification including 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---.


Passport Data of the variety KSF-117A:
Applicant : Kaveri Seed Company Limited
Address of the Applicant : 513-B, 5th Floor, Minerva complex,
S. D. Road, Secunderabad-500003 (A.P.)
Nationality of Applicant: Indian

Application details

a. Number: N25  HA 40  10  293

b. Date of receipt: 21/09/2010

c. Date of acceptance: 03/06/2011

Crop (Taxonomical Lineage): Sunflower (*Helianthus annuus* L.)

Denomination: KSF-117A

Type of Variety: New

Classification of Variety: Typical

Previously proposed denomination: Not applicable

Name of Parental Material: Strain A (220 A) X Strain KSF-117

Name of Reference Varieties: 234A & 17A

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks, measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Early (Morden)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Fine (CMS-234A)</td>
</tr>
<tr>
<td>Plant: Height (cm)</td>
<td>Short (Morden)</td>
</tr>
<tr>
<td>Plant: Branching</td>
<td>Absent (Morden)</td>
</tr>
<tr>
<td>Seed coat: Stripes</td>
<td>Present (Surya)</td>
</tr>
</tbody>
</table>
B. Distinct Characteristics:

KSFH-117A has distinguishing characters like few ray floret number, absent disc floret anthocyanin pigmentation of stigma, convex head shape of grain side and high seed weight (100 seeds weight in g).

C. Reference varieties:

234A: It has distinguishing characters like medium ray floret number, medium disc floret anthocyanin pigmentation of stigma, flat head shape of grain side and medium seed weight (100 seeds weight in g).

17A: It has distinguishing characters like medium ray floret number, strong disc floret anthocyanin pigmentation of stigma, flat head shape of grain side and medium seed weight (100 seeds weight in g).

D. Date of commercialization of the variety

Not commercialized

E. Photographs: (See figure 26)

27. Application No. N27 | HA 42 | 10 | 295 filed on 21/09/2010 by Kaveri Seed Company Limited, 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.) on behalf of -----NA-------for a new plant variety of crop Sunflower (Helianthus annuus L.) having denomination KSF-116B, the specification including 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---.


Passport Data of the variety KSF-116B:

Applicant : Kaveri Seed Company Limited
Address of the Applicant: 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.)

Nationality of Applicant: Indian

Application details

a. Number: N27 HA 42 10 295

b. Date of receipt: 21/09/2010

c. Date of acceptance: 03/06/2011

Crop (Taxonomical Lineage): Sunflower (*Helianthus annuus* L.)

Denomination: KSF-116B

Type of Variety: New

Classification of Variety: Typical

Previously proposed denomination: Not applicable

Name of Parental Material: Strain 116A X Strain KSF-Maintainer

Name of Reference Varieties: 234B & 17B

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks, measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50 % flowering</td>
<td>Medium (KBSH-1)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Medium (KBSH-42)</td>
</tr>
<tr>
<td>Plant: Height (cm)</td>
<td>Medium (BSH 1)</td>
</tr>
<tr>
<td>Plant: Branching</td>
<td>Absent (Morden)</td>
</tr>
</tbody>
</table>
Seed coat: Stripes | Present (Surya)

**B. Distinct Characteristics:**

KSFH-116B has distinguishing characters like rounded leaf shape, convex head shape of grain side and medium seed oil content (%).

**C. Reference varieties:**

234B: It has distinguishing characters like triangular leaf shape, flat head shape of grain side and high seed oil content (%).

17B: It has distinguishing characters like cordate leaf shape, flat head shape of grain side and low seed oil content (%).

**D. Date of commercialization of the variety** | Not commercialized

**E. Photographs:** (See figure 27)

28. Application No. N28 HA 43 10 296 filed on 21/09/2010 by Kaveri Seed Company Limited, 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.) on behalf of -----NA------ for a new plant variety of crop Sunflower (Helianthus annuus L.) having denomination KSF-260A, the specification including 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----.


**Passport Data of the variety KSF-260A:**

**Applicant** : Kaveri Seed Company Limited
Address of the Applicant: 513-B, 5th Floor, Minerva complex, S. D. Road, Secunderabad-500003 (A.P.)

Nationality of Applicant: Indian

Application details

a. Number: N28 | HA 43 | 10 | 296

b. Date of receipt: 21/09/2010

c. Date of acceptance: 03/06/2011

Crop (Taxonomical Lineage): Sunflower (*Helianthus annuus* L.)

Denomination: KSF-260A

Type of Variety: New

Classification of Variety: Typical

Previously proposed denomination: Not applicable

Name of Parental Material: Strain A (KSF 115) X Strain B (KSF-260)

Name of Reference Varieties: 234A & 17A

Variety Description:

<table>
<thead>
<tr>
<th>A. Group Characteristics</th>
<th>Remarks, measured values, example varieties, etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant: Time of 50% flowering</td>
<td>Early (Morden)</td>
</tr>
<tr>
<td>Leaf: Serration</td>
<td>Medium (KBSH-42)</td>
</tr>
<tr>
<td>Plant : Height (cm)</td>
<td>Short (Morden)</td>
</tr>
<tr>
<td>Plant : Branching</td>
<td>Absent (Morden)</td>
</tr>
</tbody>
</table>
Seed coat: Stripes  
Present (Surya)

### B. Distinct Characteristics:

**KSFH-260A** has distinguishing characters like medium leaf blistering, presence of leaf petiole anthocyanin pigmentation, turned down head attitude and convex head shape of grain side.

### C. Reference varieties:

**234A:** It has distinguishing characters like strong leaf blistering, absence of leaf petiole anthocyanin pigmentation, half turned down head attitude and flat head shape of grain side.

**17A:** It has distinguishing characters like absence of leaf blistering, absence of leaf petiole anthocyanin pigmentation, vertical head attitude and flat head shape of grain side.

### D. Date of commercialization of the variety

Not commercialized

### E. Photographs:

(See figure 28)
Photograph of candidate varieties notified in Plant Variety Journal of India, Vol. 5, No.- 09, September 01, 2011

**Figure 01:** Sorghum: KSMS 263

**Figure 02:** Sorghum: KSR 6194

**Figure 03:** Sunflower: SYN-SF-ARMONI

**Figure 04:** Sunflower: SYN-SF-275PR
Figure 05: Sunflower: VSFH-2006 (FAME)

Figure 05a: View of leaf shape, colour, serration and angle of lateral veins

Figure 05b: View of head shape of grain side

Figure 05c: View of seed shape

Figure 06: Sunflower: VSFH-1003 (GLEN)

Figure 06a: View of seedling anthocyanin pigmentation

Figure 06b: View of leaf shape, colour, serration and angle of lateral veins

Figure 06c: View of disc floret anthocyanin pigmentation of stigma

Figure 06d: View of seed shape
Figure 07: Sunflower: VSFH-1006 (CLARA)

- **Figure 07a**: View of leaf shape, colour, serration and angle of lateral veins
- **Figure 07b**: View of leaf for orientation of blade
- **Figure 07d**: View of seed shape

Figure 08: Sunflower: VSFH-1006 (CLEO) proceedings

- **Figure 08a**: View of leaf serration and angle of lateral veins
- **Figure 08b**: View of head shape of grain side
- **Figure 08c**: View of seed shape

Figure 09: Tetraploid cotton: GNLC-1

- **Figure 09a**: General view of flower
- **Figure 09b**: View of boll at opening stage
- **Figure 09c**: View of open boll
Figure 10: Sunflower: SYN-SF-207

Figure 10a: General view of the crop

Figure 10b: General view of head

Figure 11: Maize: KML 5164

Figure 11a: General view of tassel

Figure 11b: View of ear shape and color of top of grain

Figure 12: Maize: KML 5263

Figure 12a: General view of tassel

Figure 12b: View of silk anthocyanin colouration

Figure 12c: View of ear for shape
Figure 13: Maize: KML 5015

- Figure 13a: View of tassel anthocyanin colouration of anthers
- Figure 13b: View of silk anthocyanin colouration
- Figure 13c: View of ear shape

Figure 14: Sunflower: KSFH-678

- Figure 14a: View of leaf shape, serration and angle of lateral veins
- Figure 14b: View of seed shape and stripes

Figure 15: Sunflower: KSFH-7049

- Figure 15a: View of leaf shape, serration and angle of lateral veins
- Figure 15b: View of seed shape and stripes
Figure 16: Indian mustard: 45S45

Figure 16a: View of leaf for number of lobes

Figure 16b: General view of flowers

Figure 16c: View of siliqua beak

Figure 17: Sunflower: KSF-004R

Figure 17a: View of leaf shape, angle of lateral veins and orientation of blade

Figure 17b: View of head diameter and plant type of branching

Figure 18: Sunflower: KSF-270A

Figure 18: View of leaf blistering, leaf serration, orientation of blade, ray floret number and shape

Figure 19: Sunflower: KSF-279A

Figure 19: View of leaf serration, angle of lateral veins, orientation of blade, and head attitude
Figure 20: Sunflower: KSF-003R

**Figure 20a:** View of leaf blistering, leaf serration, orientation of blade, petiole and stem anthocyanin pigmentation

**Figure 20b:** View of head shape and plant type of branching

Figure 21: Sunflower: KSF-119A

**Figure 21:** View of leaf shape, angle of lateral veins, orientation of blade, head attitude and shape

Figure 22: Sunflower: KSF-149A

**Figure 22a:** View of leaf blistering, angle of lateral veins and orientation of blade

**Figure 22b:** View of disc floret colour and head attitude
**Figure 23:** Sunflower: KSF-145A

**Figure 24:** Sunflower: KSF-141A

**Figure 25:** Sunflower: KSFH-9004

**Figure 26:** Sunflower: KSF-117A

**Figure 23:** View of leaf blistering, leaf serration and angle of lateral viens

**Figure 24a:** View of leaf shape and blistering

**Figure 24b:** View of disc floret colour and head attitude

**Figure 25:** View of leaf shape, leaf serration, leaf orientation and head attitude

**Figure 26:** View of leaf shape, leaf serration, leaf blistering, number of ray florets and head shape
Figure 27: Sunflower: KSF-116B

Figure 27: View of leaf shape, leaf blistering, leaf angle of lateral veins, ray florets and head attitude

Figure 28: Sunflower: KSF-260A

Figure 28: View of leaf shape, leaf angle of lateral veins, ray floret shape and colour, head attitude and shape