**OBJECTIVE DESCRIPTION OF VARIETY**

**Rice** (*Oryza sativa*)

<table>
<thead>
<tr>
<th>NAME OF APPLICANT (S)</th>
<th>TEMPORARY OR EXPERIMENTAL DESIGNATION</th>
<th>VARIETY NAME</th>
<th>ADDRESS (Street and No. or RD No., City, State, and Zip Code, Country)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>FOR OFFICIAL USE ONLY</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>PVPO NUMBER</td>
</tr>
</tbody>
</table>

**PLEASE READ ALL INSTRUCTIONS CAREFULLY:**

Place the appropriate number that describes the character of this variety in the spaces provided below. These numbers are also code numbers corresponding to descriptors developed by IBGR-IRRI Rice Advisory Committee and the US Rice Crop Advisory Committee. Breeders will demonstrate distinctness more readily by describing as many characters as is possible.

### 1. MATURITY: Days to Heading (Seedling to 50% Heading)

**A. South:** (Location: ____________________________) at _____________________kg/ha (Nitrogen Rate)

- ___ Number of Days
- ___ Days Earlier Than Check Variety: ___________________________
- ___ Days Same As Check Variety: ___________________________
- ___ Days Later Than Check Variety: ___________________________
- ___ Maturity Class
  - 1 = Very Early (85 Days or Less)
  - 2 = Early (86 – 100)
  - 3 = Intermediate (101 - 115)
  - 4 = Late (More Than 115)

**B. California:** (Location: ____________________________) at _____________________kg/ha (Nitrogen Rate)

- ___ Number of Days
- ___ Days Earlier Than Check Variety: ___________________________
- ___ Days Same As Check Variety: ___________________________
- ___ Days Later Than Check Variety: ___________________________
- ___ Maturity Class
  - 1 = Very Early (90 Days or Less)
  - 2 = Early (91 – 97)
  - 3 = Intermediate (98 - 104)
  - 4 = Late (More Than 104)

### 2. CULM:

- ___ Angle (Degrees from Perpendicular after Flowering):
  - 1 = Erect (Less than 30°)
  - 2 = Intermediate (About 45°)
  - 3 = Intermediate (About 60°)
  - 7 = Spreading (More than 60° but the culms do not rest on the ground)
  - 9 = Procumbent (The culm or its lower part rests on the ground surface)
2. **CULM:** (continued)

   LENGTH
   __ __ __ cm (Soil level to top of extended panicle on main stem)
   __ __ __ cm Shorter Than   Check Variety: _________________
   __ __ __ cm Length Same as Check Variety: _________________
   __ __ __ cm Longer than   Check Variety: _________________

   ___ Height Class: 1 = Short (≤ 95 cm) 2 = Medium (96-114 cm) 3 = Tall (≥ 115 cm)
   ___ Internode Color: (After Flowering): 1 = Green 2 = Light Gold 3 = Purple Lines 4 = Purple
   ___ Strength (Lodging Resistance): 1 = Strong (no Lodging) 3 = Moderately Strong (Most Plants Leaning)
       5 = Intermediate (Most Plants Lodged) 7 = Weak (Most Plants Flat)

3. **FLAG LEAF:** (At Maturity)

   __ __ __ cm Length  __ __ __ mm Width
   ___ Pubescence: 1 = Glabrous 2 = Intermediate 3 = Pubescent
   ___ Leaf Angle (After Heading): 1 = Erect 3 = Intermediate 5 = Horizontal 7 = Descending
   ___ Blade Color (At Heading): 1 = Pale Green 2 = Green 3 = Dark Green 4 = Purple Tips
       5 = Purple Margins 6 = Purple Blotch 7 = Purple
   ___ Basal Leaf Sheath Color (At Heading): 1 = Green 2 = Purple Lines 3 = Light Purple 4 = Purple

4. **LIGULE:**

   __ __ __ mm Length (From base of collar to the tip, at late vegetative stage)
   ___ Color: (Late Vegetative Stage): 1 = White 2 = Purple Lines 3 = Purple
   ___ Shape: 1 = Acute to Acuminate 2 = 2-Cleft 3 = Truncate
   ___ Collar Color (Late Vegetative Stage): 1 = Pale Green 2 = Green 3 = Purple
   ___ Auricle Color (Late Vegetative Stage): 1 = Pale Green 2 = Purple

5. **PANICLE:**

   __ __ __ cm Length
   ___ Type: 1 = Compact 5 = Intermediate 9 = Open
   ___ Secondary Branching: 1 = Absent 2 = Light 3 = Heavy 4 = Clustering
   ___ Exsertion (Near Maturity): 1 = Less than 90% 2 = 90 – 99% 3 = 100% Exserted
   ___ Shattering (At Maturity): 1 = Low (≤ 5%) 5 = Moderate (6 – 25%) 9 = High (More than 25%)
   ___ Threshability: 1 = Difficult 2 = Intermediate 3 = Easy

6. **GRAIN:** (Spikelet)

   ___ Awns (After Full Heading): 0 = Absent 1 = Short and Partly Awned 5 = Short and Fully Awned
       7 = Long and Partly Awned 9 = Long and Fully Awned
   ___ Apiculus Color (At Maturity): 1 = White 2 = Straw 3 = Brown (Tawny) 4 = Red
       5 = Red Apex 6 = Purple 7 = Purple Apex
   ___ Apiculus Color (After Full Heading): 1 = White 2 = Straw 3 = Brown (Tawny) 4 = Red
       5 = Red Apex 6 = Purple 7 = Purple Apex
   ___ Stigma Color: 1 = White 2 = Light Green 3 = Yellow 4 = Light Purple 5 = Purple
6. GRAIN: (Spikelet)

____ Lemma and Palea Color (At Maturity):

0 = Straw 1 = Gold and/or Gold Furrows on Straw Background 2 = Brown Spots on Straw (Piebald)
3 = Brown Furrows on Straw 4 = Brown (Tawny) 5 = reddish to Light Purple
6 = Purple Spots on Straw 7 = Purple Furrows on Straw 8 = Purple
9 = Black 10 = White

____ Lemma and Palea Pubescence: 1 = Glabrous 2 = Hairs on Lemma Keel 3 = Hairs on Upper Portion
4 = Short Hairs 5 = Long Hairs (Velvety)

____ Spikelet Sterility (At Maturity): 1 = Highly Fertile (> 90%) 3 = Fertile (75 – 90%) 5 = Partly Sterile (50 – 74%)
7 = Highly Sterile (< 50% to Trace) 9 = Completely Sterile (0%)

7. GRAIN: (Seed)

____ Seed Coat (Bran) Color: 1 = White 2 = Light Brown 3 = Speckled Brown 4 = Brown
5 = Red 6 = Variable Purple 7 = Purple

____ Endosperm Type: 1 = Nonglutinous (Nonwaxy) 2 = Glutinous (Waxy) 3 = Indeterminate

____ Endosperm Translucency: 1 = Clear 5 = Intermediate 9 = Opaque

____ Endosperm Chalkiness: 0 = None 1 = Small (Less than 10% of Sample) 5 = Medium (10 – 20% of Sample) 9 = Large (More than 20% of Sample)

____ Scent (Aroma): 0 = Nonscented 1 = Lightly Scented 2 = Scented

Shape Class (Length/Width Ratio):

____ Paddy 1 = Short (2.2:1 and Less) 2 = Medium (2.3:1 to 3.3:1) 3 = Long (3.4:1 and More)
____ Brown 1 = Short (2.0:1 and Less) 2 = Medium (2.1:1 to 3.0:1) 3 = Long (3.1:1 and More)
____ Milled 1 = Short (1.9:1 and Less) 2 = Medium (2.0:1 to 2.9:1) 3 = Long (3.0:1 and More)

Measurements:

<table>
<thead>
<tr>
<th>Grain Form</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Thickness (mm)</th>
<th>L/W Ratio</th>
<th>1000 Grains (grams)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paddy</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Brown</td>
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<tr>
<td>Milled</td>
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</tbody>
</table>

____ Milling Quality (% Hulls)  ____ Milling Yield (% White Kernel (head) Rice to Rough Rice)

____ % Protien  ____ % Amylose

Alkali Spreading Value: _______ 1.5% KOH Solution or _______ 1.7% KOH Solution

____ Gelatination Temperature Type: 1 = High 5 = Intermediate 7 = Low

Amylographic Paste Viscosity

Peak  Hot Paste  Cooled Paste  “Breakdown” “Setback”

8. RESISTANCE TO LOW TEMPERATURE:

____ Germination and Seedling Vigor: 1 = Low 2 = Medium 3 = High
____ Flowering (Spikelet Fertility): 1 = Low 2 = Medium 3 = High

9. SEEDLING VIGOR NOT RELATED TO LOW TEMPERATURE:

____ Vigor: 1 = Low 2 = Medium 3 = High
10. BLAST RESISTANCE: *(Magnaporthe oryzae)*. (International races found under References)

<table>
<thead>
<tr>
<th>Group</th>
<th>IB</th>
<th>IC</th>
<th>ID</th>
<th>IE</th>
<th>IG</th>
<th>IH</th>
<th>Others:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>1</td>
<td>5</td>
<td>45</td>
<td>49</td>
<td>54</td>
<td>1</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>13</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<table>
<thead>
<tr>
<th>Resistance</th>
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</thead>
<tbody>
<tr>
<td>0 = Immune</td>
<td>1 = Resistant</td>
<td>3 = Moderately Resistant</td>
<td>5 = Intermediate</td>
<td>7 = Moderately Susceptible</td>
<td>9 = Susceptible</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

11. RESISTANCE TO OTHER DISEASES:

<table>
<thead>
<tr>
<th>Disease</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Narrow Brown Leaf Spot (Cerrosora oryzae)</td>
<td>___</td>
</tr>
<tr>
<td>Leaf Smut (Entyloma oryzae)</td>
<td>___</td>
</tr>
<tr>
<td>Brown Leaf Spot (Helminthosporium oryzae) (=Bipolaris oryzae) (=Drechslera oryzae)</td>
<td>___</td>
</tr>
<tr>
<td>Leaf Scald (Gerlachia oryzae)</td>
<td>___</td>
</tr>
<tr>
<td>Hoja Blanca Virus</td>
<td>___</td>
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<tr>
<td>Sheath Rot (Sarocladium oryzae)</td>
<td>___</td>
</tr>
<tr>
<td>Pythium Seedling Blight (Pythium sp.)</td>
<td>___</td>
</tr>
<tr>
<td>Sheath Spot (Pyricularia oryzae)</td>
<td>___</td>
</tr>
<tr>
<td>Other:</td>
<td>___</td>
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</tbody>
</table>

12. INSECT RESISTANCE:

<table>
<thead>
<tr>
<th>Insect</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grasshopper</td>
<td>___</td>
</tr>
<tr>
<td>Rice Leafhopper</td>
<td>___</td>
</tr>
<tr>
<td>Rice Hispa</td>
<td>___</td>
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<tr>
<td>Rice Midge</td>
<td>___</td>
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<tr>
<td>Least Skipper</td>
<td>___</td>
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<tr>
<td>Rice Stink Bug (Oegalus pugnax)</td>
<td>___</td>
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<tr>
<td>Swarm Caterpillar</td>
<td>___</td>
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<tr>
<td>Rice Water Weevil (Lissorhoptrus oryzophilus)</td>
<td>___</td>
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<tr>
<td>Rice Stalk Borer (Chilo plejadellus)</td>
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<tr>
<td>Sugarcane Borer (Diatraea saccharalis)</td>
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</table>

13. OTHER DESCRIPTORS: If there are other characters that describe this variety, please indicate below:

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REFERENCES


