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> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE**

Exhibit C

## **OBJECTIVE DESCRIPTION OF VARIETY** Rice (Oryza sativa)

NAME OF APPLICANT (S)	TEMPORARY OR E	EXPERIMENTAL DESIG	NATION	VARIETY NAME						
ADDRESS (Street and No. or RD No., City, State, and Zig	Lip Code, Country)			FOR OFFICIAL USE ONLY						
				PVPO NUMBER						
PLEASE READ ALL INSTRUCTIONS O		y in the spaces pro	wided below. These	a numbers are also code numbers						
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 (Seed	dling to 50% Heading)									
A. South: (Location:		) at	kg/ha (Nit	trogen Rate)						
Number of Days										
Days Earlier Than Chec	eck Variety:									
Days Same As Chec	eck Variety:									
Days Later Than Chec	eck Variety:									
Maturity Class 1 = \ 3 = I	Very Early (85 Days or Less) Intermediate (101 - 115)	2 = Early (86 4 = Late (Mor								
B. California: (Location:		) at	kg/ha (Nit	trogen Rate)						
Number of Days										
Days Earlier Than Chec	eck Variety:									
Days Same As Chec	eck Variety:									
Days Later Than Chec	eck Variety:									
Maturity Class 1 = \ 3 = I	Very Early (90 Days or Less) Intermediate (98 - 104)	2 = Early (91 4 = Late (Mor	,							
2. CULM:										
	σ,	est on the ground)	5 = Open (About 6	60°)						

2. (	CULM: (continued)				
	LENGTH				
	• cm (Soil level to top of extende	ed panicle on main s	tem)		
	• cm Shorter Than Check V	ariety:			
	Length Same as Check V	ariety:			
	•cm Longer than Check V	ariety:			
	Height Class: 1 = Short (≤ 95 cm	) 2 = Medium (96-1	14 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 Lo 5 = Intermediate ( 9 = Very Weak (A	Most Plants Lodged)		y Strong (Most Plants Leaning) st 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 5 = Purple Margin	2 = Green s 6 = Purple Blotch	3 = Dark Green 7 = Purple	4 = Purple Tips
	Basal Leaf Sheath Color(At Heading):	1 = Green	2 = Purple Lines	3 = Light Purple	4 = Purple
4. I	LIGULE:				
	• mm Length (From base of collar	to the tip, at late veg	etative stage)		
	Color: (Late Vegetative Stage):	1 = White	- ,	3 = Purple	
	Shape:	1 = Acute to Acun		ft 3 = Trunc	cate
	Collar Color (Late Vegetative Stage):	1 = Pale Green	2 = Green	3 = Purple	
	Auricle Color (Late Vegetative Stage):	1 = Pale Green	2 = Purple	·	
5. I	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 – 2	25%) 9 = High	(More than 25%)
	Threshability: 1 = Difficult 2	= Intermediate	3 = Easy		
6. (	GRAIN: (Spikelet)				
	Awns (After Full Heading):	0 = Absent 7 = Long and Part	1 = Short and tly Awned	Partly Awned 9 = Long and Fully	5 = Short and Fully Awned Awned
	Apiculus Color (At Maturity):	1 = White 5 = Red Apex	2 = Straw 6 = Purple	3 = Brown (Tawny) 7 = Purple Apex	4 = Red
	Apiculus Color (After Full Heading):	1 = White 5 = Red Apex	2 = Straw 6 = Purple	3 = Brown (Tawny) 7 = Purple Apex	4 = Red
	Stigma Color: 1 = White 2	= Light Green	3 = Yellow 4	= Light Purple	5 = Purple

6.	GRAIN: (Spikelet)								
	Lemma and Palea Color (At Ma	aturity):							
	0 = Straw 3 = Brown Furrows on Straw 6 = Purple Spots on Straw 9 = Black	1 = Gold and/or Gold 4 = Brown (Tawny 7 = Purple Furrows 10 = White		2 = Brown Spots on Straw (Piebald) 5 = Reddish to Light Purple 8 = Purple					
	Lemma and Palea Pubescence	e: 1 = Glabrous 4 = Short Hairs	2 = Hairs on Lemma 5 = Long Hairs (Velv		s on Upper Portion				
	Spikelet Sterility (At Maturity):	1 = Highly Fertile 7 = Highly Sterile	e (75 – 90%) 9 = Completely Ste	5 = Partly Sterile (50 – erile (0%)	74%)				
7.	GRAIN: (Seed)								
		I = White 2 = Ligh 5 = Red 6 = Varia		3 = Speckled Brow 7 = Purple	n 4 = Brown				
	Endosperm Type:	1 = Nonglutinous (Nonwaxy)	2 = Glutin	ous (Waxy)	3 = Indeterminate				
	Endosperm Translucency:	I = Clear	5 = Intermediate	9 = Opa	que				
		0 = None 5 = Medium (10 – 20% of Sa		(Less than 10% of (More than 20% of	% of Sample)				
	Scent (Aroma):	) = Nonscented	1 = Lightly Scented	2 = Scer	nted				
	Shape Class (Length/Width Ra	tio):							
	Paddy	1 = Short (2.2:1 and Less)	2 = Medium (2.3:1 to	3.3:1) 3 = Long	g (3.4:1 and More)				
	Brown	1 = Short (2.0:1 and Less)	2 = Medium (2.1:1 to	3.0:1) 3 = Long	g (3.1:1 and More)				
	Milled	1 = Short (1.9:1 and Less)	2 = Medium (2.0:1 to	o 2.9:1) 3 = Long	g (3.0:1 and More)				
		Length Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (grams)				
	Paddy _								
	Brown								
	Milled								
	Milling Quality (% Hulls)	M	illing Yield (% White K	ernel (head) Rice to	o Rough Rice)				
	% Protien								
	Alkali Spreading Value:	1.5% KOH Solution	or	1.7% KOH Solu	ition				
	Gelatination Temperature Type	e: 1 = High	5 = Interm	ediate	7 = Low				
	Amylographic Paste Viscosity								
	Peak Hot Paste	Cooled I	Paste "Breal	kdown" "Setback"					
8.	RESISTANCE TO LOW TEMPERTUR	RE:							
	Germination and Seedling Vigo		2 = Mediu	m 3 = High					
	Flowering (Spikelet Fertility):	1 = Low		· ·					
9.	SEEDLING VIGOR NOT RELATED T	O LOW TEMPERATURE:							
	Vigor:	1 = Low	2 = Mediu	m 3 = High					

														Exhibit C (Rice)		
10. BLAS	ST RESIST	ANCE:	(Magnaportl	he oryzae	e). (Intern	ational races	found u	ınder Refere	nces)							
0 = I	mmune	1 :	= Resistant	3 =	Moderate	ly Resistant	5 = lı	ntermediate	7 =	Moderate	ly Suscept	ible	9 = Susceptible			
Group			IB			IC		ID		IE	IG	IH	Others:			
Number	1	5	45	49	54	1	17	1	13	1	1	1				
Resistanc	e															
11. RESI	STANCE T	о отне	ER DISEASI	ES:												
0 = I	mmune	1 :	= Resistant	3 =	Moderate	ly Resistant	5 = lı	ntermediate	7 =	Moderate	ly Suscept	ible	9 = Susceptible			
	Narrow Br	own Lea	af Spot ( <i>Cer</i>	ospora o	ryzae)			Aggre	egate Sl	heath Spo	t ( <i>Rhizoct</i> c	nia oryza	ae-sativae)			
	Leaf Smut	(Entylo	ma oryzae)					Strai	ght Head	d						
	Brown Leaf Spot ( <i>Helminthosporium oryzae</i> ) (= <i>Bipolaris oryzae</i> ) (= <i>Drechslera oryzae</i> )								Kernel Smut ( <i>Neovossia horrida</i> ) (= <i>Tilletia barclayana</i> )							
	Leaf Scald ( <i>Gerlachia oryzae</i> )								White Tip Nematode (Aphelenchoides besseyi)							
	Hoja Blanca Virus								Stem Rot (Sclerotium oryzae)							
	Sheath Ro	ot (Saroo	cladium oryz	zae)												
	Pythium S	eedling	Blight (Pyth	ium sp.)			Bacterial Blight (Xanthomonas campestris pv. oryzae)									
Sheath Spot (Rhizoctonia oryzae)								Sheath Blight ( <i>Rhizoctonia solani</i> )								
	Other:															
12. INSE	CT RESIST	ANCE:														
0 = I	mmune	1 :	= Resistant	3 =	Moderate	ly Resistant	5 = lı	ntermediate	7 =	Moderate	ly Suscept	ible	9 = Susceptible			
	Grasshopp	oer						Rice	Stink Bu	ug (O <i>egal</i> u	ıs pugnax)					
Rice Leafhopper							Swarm Caterpillar									
Rice Hispa							Rice Water Weevil (Lissorhoptrus oryzophilus)									
Rice Midge							Rice Stalk Borer (Chilo plejadellus)									
Least Skipper							Sugarcane Borer (Diatraea saccharalis)									
13. OTH	ER DESCRI	IPTORS	3: If there ar	e other c	haracters	that describe	e this va	riety, please	indicate	e below:						

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