

NOTABLE ACHIEVEMENTS OF RARS/RESEARCH STATION/AICRIP SCHEME/KVK

SN o	Description		
1	Name of RARS/Research station/AICRIP/KVK	:	Agricultural Research Station, Machilipatnam-521002, Krishna district
2	Year of establishment	:	
3	Mandate crops		Rice Development of medium duration, salt tolerant /resistant rice varieties suitable to coastal ecosystem and management strategies for improving productivity in salt affected areas.
4	Notable Achievements (in bullets)		
a	ARS, Machilipatnam has released salt tolerant rice varieties MCM-1, MCM-2 in pre-green revolution era and developed salt management strategies. It played a key role in varietal replacement by seed multiplication and distribution of high yielding rice varieties in Krishna district since its establishment. It one of the six research stations in India working on coastal salinity.		
b	High yielding medium duration salt tolerant rice variety MCM 100 was released as Panduranga in 2018		

c	High yielding medium duration fine grain salt tolerant rice variety MCM 103 completed 3 years minikit testing was submitted for release as Bandarusannlu in 2020	
d	High yielding fine grain salt tolerant rice variety MCM 109 completed 3 years of minikit testing in 2019	

ANGRAU TECHNOLOGIES			
	Category of technology		Crop Improvement
i	Name of the technology		Salt tolerant rice variety Panduranga (MCM 100)
ii	Description of technology		Year of release:2018 notified in 2019 No.SO3220(E) dt.05/09/2019 Parentage : MTU 1042 / MTU 1061 Duration : 140-145 days. Yield : 6.0 t / ha. Season : kharif. Special characters : tolerant to salinity, non lodging, semi-dwarf. moderately tolerant to BPH, medium slender grain, dormancy for 2 weeks. Test weight: 19.2g L/B ratio: 2.5, Kernel Length 5.01mm Kernel breadth: 1.98mm
iii	Application/Use		MCM 100 rice variety suitable for cultivation in Salt affected areas of Andhra Pradesh and also under normal irrigated ecosystem
iv	Unit Cost of operation	:	20 kg per acre
v	Status of commercialization		Yes
	Address of Licensees or Manufacturer		ANGRAU Agricultural Research Station, Machilipatnam-521002, Krishna district
vi	Contact Address for further details		Senior Scientist (Pl Br) & Head, Acharya NG Ranga Agricultural University, Agricultural Research Station, Machilipatnam-521002, Krishna district Andhra Pradesh



Panduranga (MCM 100)

1	Crop	Paddy
2	Variety	Panduranga (MCM 100)
3	Parentage	MTU 1042/MTU 1061
4	Breeding method	Pedigree
5	Year of release	2018 notification No.SO3220(E) dt.05/09/2019
6	Release through CVRC/SVRC	SVRC
7	Crop duration	140 days
8	Season	Kharif
9	Potential yield	6.0 tons/ha
10	Area suitability	Salt affected areas of Andhra Pradesh and also under normal irrigated ecosystem
11	Salient features	Tolerant to salinity, non lodging, semi-dwarf. moderately tolerant to BPH, medium slender grain, low grain shattering, dormancy for 2 weeks.